

**Bid Tabulation Packet
for
Solicitation PNC2119212P1**

Consulting Services for Port Everglades

Bid Designation: Public



Broward County Board of County Commissioners

Keith and Associates, Inc.

Bid Contact **Dodie Keith**
tleshinski@keithteam.com
Ph 954-788-3400

Address **301 East Atlantic Boulevard**
Pompano Beach, FL 33060

Supplier Code VC0000038979

Qualifications CBE DBE SB WBE

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
PNC2119212P1--01-01	Consulting Services for Port Everglades	Supplier Product Code: Supplier Notes: Thank you for the opportunity to submit our response to Bid PNCP119212P Port Everglades Consulting Services.	First Offer -	1 / fee	Y	Y
Supplier Total					\$0.00	

Keith and Associates, Inc.

Item: **Consulting Services for Port Everglades**

Attachments

ALL Sub Contacts.pdf

CBELetterOfIntent_KEITH Team of Subconsultants.pdf

PNC2119212P1_Evaluation_Criteria_Response_Form.-1.docx

PNC2119212P1 Port Everglades Consulting Services_KEITH.pdf

SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT FORM

Moffatt Nichol

100 W Cypress Creek Rd, Suite 960

Fort Lauderdale, FL 33309

954-622-8100

Jaime Pabon, Senior Environmental Scientist

jpabon@moffattnichol.com

Contract Amnt: TBD

Seaport / Marine

CPZ Architects

4316 W Broward Blvd, Plantation, FL 33317

954-792-8525

Chris Zimmerman, President

chris@cpzarchitects.com

Contract Amnt: TBD

Architecture

The Chappell Group

714 E McNab Rd, Pompano Beach, FL 33060

954-782-1908

Tyler Chappell, President

tyler@thechappellgroup.com

Contract Amnt: TBD

Environmental Consultant

Delta G Engineering

707 NE 3rd Ave # 200, Fort Lauderdale, FL 33304

954-527-1112

George SanJuan, President

Gsanjuan@deltag.net

Contract Amnt: TBD

MEP Engineer

Florida Engineering & Testing Inc.

250 SW 13th Avenue, Pompano Beach, FL 33069

954-781-6889

Christine Chang, Owner

Cchang@fla-eng.com

Contract Amnt: TBD

Geotechnical



LETTER OF INTENT BETWEEN BIDDER/OFFEROR AND COUNTY BUSINESS ENTERPRISE (CBE) FIRM/SUPPLIER

This form is to be completed and signed for each CBE firm. If the PRIME is a CBE firm, please indicate the percentage performing with your own forces.

Solicitation No.: PNC21192121P1

Project Title: Consulting Services for Port Everglades

Bidder/Offeror Name: Keith and Associates, Inc. dba KEITH

Address: 301 E. Atlantic Boulevard City: Pompano Beach State: FL Zip: 33060

Authorized Representative: Alex Lazowick, PE, PMP Phone: 954-788-3400

CBE Firm/Supplier Name: The Chappell Group

Address: 714 E McNab Road City: Pompano Beach State: FL Zip: 33060

Authorized Representative: Tyler Chappell Phone: 954-782-1908

- A. This is a letter of intent between the bidder/offeror on this project and a CBE firm for the CBE to perform work on this project.
- B. By signing below, the bidder/offeror is committing to utilize the above-named CBE to perform the work described below.
- C. By signing below, the above-named CBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and CBE affirm that if the CBE subcontracts any of the work described below, it may only subcontract that work to another CBE.

Work to be performed by CBE Firm

Description	NAICS ¹	CBE Contract Amount ²	CBE Percentage of Total Project Value
Environmental Engineering	541330		5.00 %
			%
			%

AFFIRMATION: I hereby affirm that the information above is true and correct.

CBE Firm/Supplier Authorized Representative

Signature: *Tyler Chappell* Title: President Date: 9-6-19

Bidder/Offeror Authorized Representative

Signature: _____ Title: _____ Date: _____

¹ Visit Census.gov and select NAICS to search and identify the correct codes. Match type of work with NAICS code as closely as possible.

² To be provided only when the solicitation requires that bidder/offeror include a dollar amount in its bid/offer.

In the event the bidder/offeror does not receive award of the prime contract, any and all representations in this Letter of Intent and Affirmation shall be null and void.

Rev.: June 2018

Compliance Form No. 004



LETTER OF INTENT

BETWEEN BIDDER/OFFEROR AND COUNTY BUSINESS ENTERPRISE (CBE) FIRM/SUPPLIER

This form is to be completed and signed for each CBE firm. If the PRIME is a CBE firm, please indicate the percentage performing with your own forces.

Solicitation No.: PNC21192121P1

Project Title: Consulting Services for Port Everglades

Bidder/Offeror Name: Keith and Associates, Inc. dba KEITH

Address: 301 E. Atlantic Boulevard City: Pompano Beach State: FL Zip: 33060

Authorized Representative: Alex Lazowick, PE, PMP Phone: 954-788-3400

CBE Firm/Supplier Name: Delta G Engineering

Address: 707 NE 3rd Ave # 20 City: Fort Lauderdale State: FL Zip: 33304

Authorized Representative: George SanJuan Phone: 954-527-1112

- A. This is a letter of intent between the bidder/offeror on this project and a CBE firm for the CBE to perform work on this project.
- B. By signing below, the bidder/offeror is committing to utilize the above-named CBE to perform the work described below.
- C. By signing below, the above-named CBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and CBE affirm that if the CBE subcontracts any of the work described below, it may only subcontract that work to another CBE.

Work to be performed by CBE Firm

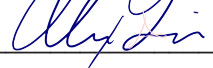
Description	NAICS ¹	CBE Contract Amount ²	CBE Percentage of Total Project Value
MEP Engineering	541330		10.00 %
			%
			%

AFFIRMATION: I hereby affirm that the information above is true and correct.

CBE Firm/Supplier Authorized Representative

Signature: George SanJuan, P.E. 46100 Digitally signed by George SanJuan, P.E. 46100 Date: 2019.09.06 11:10:56 -04'00' Title: President Date: 09/06/2019

Bidder/Offeror Authorized Representative

Signature:  Title: Executive Vice President Date: 9/6/19

¹ Visit Census.gov and select [NAICS](#) to search and identify the correct codes. Match type of work with NAICS code as closely as possible.
² To be provided only when the solicitation requires that bidder/offeror include a dollar amount in its bid/offer.

In the event the bidder/offeror does not receive award of the prime contract, any and all representations in this Letter of Intent and Affirmation shall be null and void.

Rev.: June 2018

Compliance Form No. 004



LETTER OF INTENT

BETWEEN BIDDER/OFFEROR AND COUNTY BUSINESS ENTERPRISE (CBE) FIRM/SUPPLIER

This form is to be completed and signed for each CBE firm. If the PRIME is a CBE firm, please indicate the percentage performing with your own forces.

Solicitation No.: PNC21192121P1

Project Title: Consulting Services for Port Everglades

Bidder/Offeror Name: Keith and Associates, Inc. dba KEITH

Address: 301 E. Atlantic Boulevard City: Pompano Beach State: FL Zip: 33060

Authorized Representative: Alex Lazowick, PE, PMP Phone: 954-788-3400

CBE Firm/Supplier Name: Florida Engineering and Testing

Address: 250 SW 13th Avenue, City: Pompano Beach State: FL Zip: 33069

Authorized Representative: Christine Chang Phone: 954-781-6889

- A. This is a letter of intent between the bidder/offeror on this project and a CBE firm for the CBE to perform work on this project.
- B. By signing below, the bidder/offeror is committing to utilize the above-named CBE to perform the work described below.
- C. By signing below, the above-named CBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and CBE affirm that if the CBE subcontracts any of the work described below, it may only subcontract that work to another CBE.

Work to be performed by CBE Firm

Description	NAICS ¹	CBE Contract Amount ²	CBE Percentage of Total Project Value
Geotechnical Engineering	541330		10.00 %
			%
			%

AFFIRMATION: I hereby affirm that the information above is true and correct.

CBE Firm/Supplier Authorized Representative

Signature:  Title: Christine Chang Date: 9/6/19

Bidder/Offeror Authorized Representative

Signature:  Title: Executive Vice President Date: 9/6/19

¹ Visit Census.gov and select NAICS to search and identify the correct codes. Match type of work with NAICS code as closely as possible.

² To be provided only when the solicitation requires that bidder/offeror include a dollar amount in its bid/offer.

In the event the bidder/offeror does not receive award of the prime contract, any and all representations in this Letter of Intent and Affirmation shall be null and void.

Evaluation Criteria		
Consulting Services for Port Everglades		
1.	Ability of Professional Personnel: Maximum 30 points	Vendor Response
	<p>Describe the qualifications and relevant experience of the Project Manager and all key staff that are intended to be assigned to this project. Include resumes for the Project Manager and all key staff described. Include the qualifications and relevant experience of all subconsultants' key staff to be assigned to this project.</p> <p>a: Provide a comprehensive organizational chart including all members of the proposed project team, i.e., Land Surveying, Geotechnical Engineering, Civil Engineering, Transportation and Traffic Engineering, Environmental Protection, Landscape Architecture, Structural Engineering, Materials Testing, Interior Design, Lighting Design, Fire Protection, Plumbing, Mechanical Engineering, Electrical Engineering, Telecommunications and Data Engineering, and Leadership in Energy and Environmental Design (LEED) accredited professional (AP) related services..</p> <p>Points Value: 15</p>	<p>KEITH is focused on solving multi-disciplinary challenges faced by its diverse client base. Our commitment to professionalism and strong project management has allowed us to play a key role in the development of Broward County's growing infrastructure. Our mission is to curate a tenacious team to develop innovative solutions that elevate and preserve the built and natural environments. Our team's familiarity with providing similar services through many municipalities across South Florida, relationships with local agencies and utility companies provides us with valuable insight into your project needs and requirements.</p> <p>Our staff combines the technical experience of a diverse pool of professionals with an extensive working knowledge of local and regional projects, emphasizing governmental land development and re-purposing projects. This convergence of experience has resulted in the development of important relationships with key agencies. In addition, we have a tremendous database of knowledge and information regarding local past and ongoing projects; an invaluable asset for our clients. The professionals of the KEITH Team take great pride in our personalized and professional approach which results in a quality product and the continuous success of our undertakings.</p> <p>Mr. Stephen Williams, Sr., PE will serve as the Project Manager for this contract.</p>

		<p>Additional Key Staff:</p> <ul style="list-style-type: none"> • Dodie Keith-Lazowick, PSM – Principal in Charge / Client Service Manager • Thomas Donahue, PE – QA/QC Manager • Alex Lazowick, PE, PSM – Sr. Civil Engineer • Jame Wills, PE – Project Engineer • Lee Powers, PSM – Sr. Project Surveyor • Dan Checchia, VP Location Services • Michael Mossey, PSM – Senior Surveyor and Mapper • Paul Weinberg, RLA – VP Planning and Landscape Architecture • James Thiele, PE – Sr. Project Engineer <p>Subconsultant Team Members:</p> <ul style="list-style-type: none"> • Moffatt & Nichol – port design, marine design, environmental engineering • CPZ Architecture – architectural services • The Chappell Group – Environmental Engineering • Delta G – MEP Engineering • Florida Engineering and Testing – Geotechnical engineering <p>See attached proposal for additional prime vendor and subconsultant’s team details in Tab 1, Ability of Professional Personnel</p>
	<p>b: Describe your firm’s GIS/CAD/BIM capabilities, provide a list of projects completed related to utility databases and atlas creation. Include experience with Environmental Research Institute Software (ESRI). Include a list of projects totaling \$2 million or less in construction cost, completed in the past 5 years. List all seaport environment projects completed during the past 5 year. List projects where construction requires continuity of port operations and how that was addressed and resolved.</p> <p>Points Value: 15</p>	<p>KEITH’s approach to utility and Infrastructure design is not just to a provide cost effective, innovative design for current design projects online, but to look at the design with potential growth in mind and how projects will be serviced in the future, as new development and expansion takes place. KEITH understands the importance of designing with the future in mind.</p>

KEITH has the capacity and expertise to model existing surfaces through the use of laser scans/3D point clouds and proposed surfaces, underground utilities utilizing Civil 3D, as well as importing/coordinating other building information models on or adjacent to the site. With this knowledge, the Owner can consider potential savings in evaluating proposed projects, layouts of new buildings and facilities, preparing cut and fill calculations and quantity estimating/take offs, not to mention the advantage of having accurate data for future development, facility management and analysis of life cycle costs.

We believe in utilizing formulated guidelines to obtain all newly installed infrastructure, as well as field as-built information and test hole data in a digital geo-referenced format. The use of Building Information Modeling (BIM) as a deliverable allows for the owner to maximize their ability to have the data managed in all formats (Revit/AutoCAD Civil 3D, COBie data and GIS) and for that data to be utilized throughout the life span of the facility.

KEITH's experience with BIM is extensive, covering the building life cycle from, virtualizing existing conditions, to Design and Construction. In addition to Civil modeling we have experience with modeling and collaborating with all the other major disciplines and trades both during design and construction. We have handled projects big and small, including residential, commercial and healthcare. The KEITH Team will document the existing site into BIM using information from our Survey Team. From there, a geolocated Site BIM can be used by the entire Design Team as a starting point. The internal disciplines including civil engineering, landscape

		<p>architecture and SUE will inform and develop the Design Civil Information Model (CIM) through the design stages. Revit Models will be shared regularly with the overall team to be visualized coordinated and managed in either NavisWorks or Autodesk BIM 360.</p> <p>KEITH has been using ESRI GIS software since its initial release and have continued through its latest release of ArcGIS 10.7. KEITH has utilized ESRI software to complete projects for a number of private and public clients ranging from spatial analysis, parcel mapping, utility databases, 3D mapping, etc. KEITH has even partnered with ESRI on projects to help create custom solutions for our clients.</p> <p>KEITH has been using ESRI GIS software since its initial release and have continued through its latest release of ArcGIS 10.7. KEITH has utilized ESRI software to complete projects for a number of private and public clients ranging from spatial analysis, parcel mapping, utility databases, 3D mapping, etc. KEITH has even partnered with ESRI on projects to help create custom solutions for our clients.</p> <p>For additional information a list of projects, please see Tab 1, Ability of Professional Personnel.</p>
<p>2.</p>	<p>Project Approach: Maximum 25 points</p>	
	<p>a: Describe how the Vendor will coordinate multi-disciplined projects working with multiple diverse stakeholders in developing an overall project plan including environmental design, engineering and construction which provide the ability to maintain continuity of operations during the implementation.</p> <p>Points Value: 15</p>	<p>KEITH understands it is imperative to have senior staff members overseeing the planning, design, permitting and construction components of this project. This corporate philosophy results in an extremely efficient and responsive project management approach, as well as superior project designs prepared on time and within budget. We are committed to</p>

continue providing our most highly qualified professionals for this project, which will provide effective and responsive service to Broward County.

As the Prime Consultant, the KEITH team will implement a rigorous communication protocol among all project participants. The basis of our management approach will focus on managing communication between our team and Broward County, as follows:

- Provide Single Point of Contact - Having a single point of contact for the County to simply reduce miscommunication and work as an extension for the County. In this contract, we have assigned Mr. Stephen Williams, Sr., PE as the Project Manager. He will be assigned in this capacity for the life of the contract to assure continuity and reliability to County staff
- Establish the involved group of stakeholders, and provide clear lines of communication to all, as required.
- Understand the objectives of the project and assure that all project stakeholders have the same level of commitment and expectation in understanding the scope of work
- Schedule periodic progress meetings Maintain strong, ongoing working relationships with County staff.

The KEITH Team routinely designs projects so that their construction may be phased to better meet our client's funding and operational needs. KEITH has designed projects to utilize multiple, concurrent construction contractors to speed project completion while minimizing or

		<p>eliminating operational interruption.</p> <p>For more information on our project approach, please see Tab 2 in our proposal.</p>
	<p>b: Describe the criteria Vendor will use to assign subconsultants in the project.</p> <p>Points Value: 10</p> <p>[]</p>	<p>To deliver unmatched service to Port Everglades, a world-class team must be assembled. For this project, KEITH is thrilled to have national and local partners of the highest caliber. We have selected our team of subconsultants based on their technical expertise, our working relationships with their team members, and their experience on Port and municipal projects. Additionally, we have ensured that we have several CBE / SBE / M/WBE subconsultants to ensure that we meet or exceed the County's 25% CBE goals, no matter the task order or scope of work. An overview of the firms we have included on our team and their disciplines are presented below.</p> <p>For more information on our project approach, please see Tab 1 and 2 in our proposal.</p>

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3.	<p>Past Performance: Maximum 30 points</p>	
	<p>Describe prime Vendor's experience on projects of similar nature, scope and duration, along with evidence of satisfactory completion, both on time and within budget, for the past five years. Provide a minimum of three projects with references.</p> <p>Vendor should provide references for similar work performed to show evidence of qualifications and previous experience. Refer to Vendor Reference Verification Form and submit as instructed. Only provide references for non-Broward County Board of County Commissioners contracts. For Broward County contracts, the County will review performance evaluations in its database for vendors with previous or current contracts with the County. The County considers references and performance evaluations in the evaluation of Vendor's past performance.</p> <p>a: Include active and completed projects related to cruise and/or cargo terminal expansion/construction and any other seaport transportation projects.</p> <p>Points Value: 15</p>	<p>KEITH has a distinguished history of successfully completing projects. Our success is due to a combination of effective project management, strong technical expertise and steadfast adherence to our quality control program. The KEITH Team collectively worked on numerous projects of similar nature for the Port and throughout Broward County and the State of Florida. The following is a sampling of references and similar projects performed by the KEITH Team.</p> <ul style="list-style-type: none"> • Port Everglades A/E Southport Phase IX • Port Everglades A/E Southport Phase IX-B Container Yard Stormwater Report • Port Miami Tunnel project • CPM Services – Terminal 4 Gate Replacement for Fort Lauderdale Hollywood International Airport • FLL and North Perry Airport Utility and Paving Projects • City of Pompano Beach Continuing Engineering Contracts • City of Deerfield Beach Miscellaneous Engineering, Planning and Surveying Services • Port Miami Program Management Consultant Services • Port Tampa Berth 213 Improvements • Port Redwing Container Terminal Development • Port of Tampa Cruise Terminal 6 Dive Inspections and Repairs • Cruise Ship Wharf • Port of Wilmington Berths 1-9 Deepening • Garden City Terminal Berths 2 and 3 Improvements • Cross Terminal Road

		<p>Design</p> <ul style="list-style-type: none"> • Port of Wilmington Berth 8 Replacement • Chatham Yard Intermodal Container Facility • Berth 7 Rehabilitation <p>For a full list of relevant project experience and references, please see Tab 3, Past Performance of the proposal.</p>
	<p>b: Include active and completed projects related to marine infrastructure and dredging.</p> <p>Points Value: 10</p>	<p>For a full list of relevant project experience and references, please see Tab 3, Past Performance of the proposal.</p>
	<p>c: Include active and completed projects related to marine infrastructure and dredging.</p> <p>Points Value: 5</p>	<p>For a full list of relevant project experience and references, please see Tab 3, Past Performance of the proposal.</p>
<p>4.</p>	<p>Workload of the Firm:</p>	
	<p>For the prime Vendor only, list all completed and active projects that Vendor has managed within the past five years. In addition, list all projected projects that Vendor will be working on in the near future. Projected projects will be defined as a project(s) that Vendor is awarded a contract but the Notice to Proceed has not been issued. Identify any projects that Vendor worked on concurrently. Describe Vendor's approach in managing these projects. Were there or will there be any challenges for any of the listed projects? If so, describe how Vendor dealt or will deal with the projects' challenges.</p> <p>Points Value: 5</p>	<p>KEITH manages its long and short-term workload through a policy of proactive management and resource/ personnel sharing. Our diverse staff wear many hats; we have committed to the time and energy required to meet the schedule requirements of similar contracts in the past and continue to be committed in providing unparalleled service to this contract. Delays are contained and minimized through routine weekly department/ project meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction guarantees our Teams have those discussions to deliver the projects successfully. Given our current and projected workloads, KEITH and its Subconsultant Team can and will provide the personnel and resources to exceed the expectations of the County for this contract. KEITH has the administrative know-how and the staff to manage large and small work authorizations, the management skills and the technical expertise to ensure top quality is always</p>

		<p>delivered to Broward County. Given our current and projected workloads, KEITH and its Subconsultant Team can and will provide the personnel and resources required to service Broward County for this contract. Ms. Dodie Keith-Lazowick, PSM, as the Client Resource Officer, will ensure that adequate office and field personnel are always available as needed for this contract. In 2018, KEITH increased its overall staff by 15%, significantly creating more capacity at all levels within the firm. KEITH is constantly monitoring this number to ensure the proper staff is always available for Clients like the County at a moment's notice.</p> <p>For our 5 year project history, please see Tab 4, Workload of the Firm in our proposal.</p>
5.	Location:	
	Refer to Vendor's Business Location Attestation Form and submit as instructed.	KEITH's principal place of business is located at: 301 E. Atlantic Boulevard Pompano Beach, FL 33060

	<p>A Vendor with a principal place of business location (also known as the nerve center) within Broward County for the last six months, prior to the solicitation submittal, will receive five points; a Vendor not meeting all of the local business requirements will receive zero points. The following applies for a Vendor responding as a Joint Venture (JV): if a member of the JV has 51% or more of the equity and meets all of the local business requirements, the JV will receive three points; if a member of the JV has 30 to 50% of the equity and meets all of the local business requirements, the JV will receive two points; and if a member of the JV has 10% to 29% of the equity and meets all of the local business requirements, the JV will receive one point. Points Value: 5</p>	
<p>6.</p>	<p>Willingness to Meet Time and Budget Requirements:</p>	
	<p>This solicitation is for the award of a continuing contract. The specific projects requiring professional services under the agreement have not yet been identified. However, in general, explain your firm's approach in meeting "project specific" time and budget requirements and indicate whether Vendor is committed to meet these requirements when identified under this agreement. YES = 2 Points NO = 0 Points Points Value: 2</p>	<p>YES. The KEITH Team is willing and confident we can meet anticipated project completion dates for the entire duration of this contract within budget.</p>
<p>7.</p>	<p>Volume of Previous Work:</p>	
	<p>Refer to Volume of Previous Work Attestation Form and the Volume of Previous Work Attestation Joint Venture Form and submit as instructed.</p> <p>Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor MINUS the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date. If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by contract to the •Joint Venture firm MINUS all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage. Three points will be allocated to Vendors paid \$0 - \$3,000,000); 2 Points will be allocated to Vendors paid \$3,000,001 - \$7,500,000; 1 Point will be allocated to Vendors paid \$7,500,001 - \$10,000,000; 0 Points will be allocated to Vendors paid over \$10,000,000). Payments for prime Vendor will be verified by the Purchasing</p>	<p>Total Volume of Work (amount paid to-date by the County to the Prime Vendor, minus the Vendor's confirmed payments paid to-date to approved CBE firms) per the Volume of Previous Work Attestation Form. \$2,407,715.17 See attached proposal for a breakdown summary in Tab 7.</p>

	Division. Points Value: 3	
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CONSULTING SERVICES
FOR PORT EVERGLADES
PNC2119212P1



BROWARD COUNTY
09/09/2019

***We are proud to help our
community advance. Each
project is tremendously
important to the people
we call our neighbors."***

- A. Dodie Keith-Lazowick, President





Broward County
PNC2229212P1

CONSULTING SERVICES FOR PORT EVERGLADES

September 9, 2019

Submitted by:



Engineering Inspired Design.

Alex Lazowick, PE, PMP
Executive Vice President/Project Manager

KEITH
301 E Atlantic Blvd
Pompano Beach, FL 33060
(954) 788-3400
ALazowick@KEITHteam.com

Additional Contact:
Kristen Lawlor
KLawlor@KEITHteam.com

TAB 1	Ability of Professional Personnel.....	P9
TAB 2	Project Approach.....	P86
TAB 3	Past Performance.....	P101
TAB 4	Workload of the Firm.....	P144
TAB 5	Location.....	P149
TAB 6	Willingness to Meet Time & Budget.....	P151
TAB 7	Volume of Previous Work	P153





Parcel "A"

Port Everglades Southport Phase IX

SE 42nd St

SE 41st St



September 9, 2019

Broward County Division
115 S. Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

RE: BID PNC2119212P1 CONSULTING SERVICES FOR PORT EVERGLADES

Dear Selection Committee Members:

Over the last 18 years, KEITH and our supporting consulting team partners have successfully completed the design, permitting, construction and certifications of numerous engineering projects throughout Broward County. We understand the many challenges faced with improving and maintaining the water, wastewater and storm water infrastructure throughout the County and we have demonstrated our ability to provide quality, functional designs, while maintaining budget parameters and expediting schedule requirements. *KEITH has provided design and surveying services many, many projects for the Port and we look forward to continued involvement to maintain and improve seaport engineering and facilities maintenance. In addition, Ms. Dodie Keith-Lazowick, PSM, President and Client Service Representative has served as a Board Member for the Port Everglades Association for several years beginning in 2012. In addition, Dodie is also being recognized as the 24th Annual South Florida Business Leader of the Year by the Seafarers House for leading the KEITH Team in their pro bono civil design for their new home at the Port.*

TEAM DESCRIPTION

KEITH has been most effective in our various roles because we have built a truly local team focused on Broward County projects. Our extensive related experience provides us with a real understanding and respect for the numerous stakeholders, consultants, contractors and agencies that must work concurrently, effectively and in harmony for infrastructure improvement projects to culminate in success. We recognize the critical importance of effectively coordinating with Broward County Seaport Engineering and Facilities Maintenance operations staff to minimize impacts to operations, beginning with development of design alternatives/concepts through construction. KEITH has chosen to Team with Moffatt & Nichol, one of the largest specialized maritime planning and engineering firms in the world with local staff in Fort Lauderdale and Miami. Their staff brings expertise in the areas of ports, coastal engineering, environmental engineering and resiliency planning. Our team has the expertise, local knowledge, agency contacts, community relationships and desire to complete these projects within the County's Project budget and timeframe.

COMMITMENT TO LEADERSHIP

Being a midsize, closely-knit firm, we continually strive to provide a proactive and personalized approach for our clients. KEITH persistently emphasizes the firm's true commitment to service and exceeding our clients' expectations. The leadership of KEITH is routinely involved with the day-to-day operations of the firm, as well as with extremely important clients such as Broward County. KEITH promotes a corporate philosophy to embrace and achieve the highest quality of professional standards for all the services provided to our clients.

As Principal in Charge, Ms. Dodie Keith-Lazowick, PSM holds the responsibility for the overall leadership of the Team, ensuring sufficient resource allocations and the corporate commitment to guarantee responsive service and a work product that meets the highest professional standards. The success of all Broward County projects are a matter of pride to KEITH and our Team. It has always been Ms. Keith-Lazowick's personal goal to maintain the integrity of KEITH, as was established by its founder, Bill Keith, who engaged his life and reputation to working in and for Broward County. KEITH brings to you the personal commitment of President, Ms. Keith-Lazowick, the entire firm, our long-standing reputation of accountability and no excuses, to exceed your expectations in getting the job done time and again.

COMMITMENT TO QUALITY

Mr. Stephen Williams, Sr., PE, will serve as the Senior Project Manager and Engineer-of-Record for the Team. Mr. Williams has over 45 years of experience managing and performing, planning, design and construction administration of civil engineering, utility, transportation and aviation improvement projects. Mr. Williams has an excellent record of establishing project budgets/schedules and maintaining those budgets/schedules throughout construction. With his attention to detail, he has provided quality workmanship, including clear design solutions that allow for expedited agency permitting and result in minimal contractor change orders that generally pertain to unforeseen existing conditions.

Our Quality Control/Quality Assurance Manager will be Mr. Tom Donahue, PE. Mr. Donahue brings over 40 years of engineering expertise including numerous utility infrastructure projects. Mr. Donahue's management approach includes stewardship, oversight, leadership, technical support and promotion of continuous quality control and improvement measures. Mr. Williams and Mr. Donahue will further be supported by a team of highly qualified task managers who specialize in a wide range of services anticipated for this project, most of whom have recent or ongoing design and construction management experience with infrastructure improvement projects throughout Broward County and South Florida.

COMMITMENT TO LOCAL CBE PARTNERS

Completing the KEITH Team are important local Broward County certified CBE firms specialized in specific areas of expertise: Florida Engineering and Testing Inc. providing geotechnical engineering, Delta G providing MEP engineering and The Chappell Group providing environmental engineering. KEITH commits to meet or exceed the County's 25% CBE goals, no matter the task order or scope of work.

COMMITMENT TO BROWARD COUNTY

KEITH provides a technically qualified team, with significant port design and engineering experience, including extensive knowledge of local conditions, the governing agencies and Port Everglades unique and diverse community of stakeholders. KEITH is excited for the opportunity to serve the County with this Team, and its combined knowledge of Broward County. Moreover, our team not only understands the technical needs inherent in this type of contract, but we understand the public needs as well and bring individuals who are adept at managing community relations. Our team brings together a cohesive group comprised of talented individuals with extensive expertise comprehensive architectural and engineering services that will approach this contract with sensitivity, urgency and a positive can-do attitude.

As a locally-based firm, we have a further personal vested interest in the success of these projects for the benefit of Broward County and visitors alike. Our local team has lived here before these projects; we will live here during these projects and will live here long after the projects are completed. We recognize the direct correlation between the County's success and our own success. It is this important factor that drives our continued dedication to provide the highest quality of professional engineering services to Broward County.

With a longstanding history as one of the veteran civil engineering and consulting firms located in the County, KEITH is committed to exceeding Broward County's expectations for this contract. We have assembled a team of consultants that have worked together on many engineering project assignments and who provide relevant experience performing the exact type of work required under this RFP. We respectfully submit the following information for your review and we ask you for the opportunity to provide these engineering services to Broward County as the Prime Consultant.

Respectfully,



Dodie Keith-Lazowick, PSM
President
KEITH

TAB 1

Ability of Professional Personnel



KEITH was founded in 1998, by a surveyor, Mr. William "Bill" Keith, on the principals of his personal commitment to the improvement and well-planned development of Florida communities. As a multi-disciplinary firm, KEITH provides holistic site development solutions. The firm has recently celebrated its 21st anniversary and is comprised a team of more than 150 professionals, each with the extensive working knowledge of local and regional utility projects spanning many decades.

KEITH is focused on solving multi-disciplinary challenges faced by its diverse client base. Our commitment to professionalism and strong project management has allowed us to play a key role in the development of Broward County's growing infrastructure. Our mission is to curate a tenacious team to develop innovative solutions that elevate and preserve the built and natural environments. Our team's familiarity with providing similar services through many municipalities across South Florida, relationships with local agencies and utility companies provides us with valuable insight into your project needs and requirements.

Our staff combines the technical experience of a diverse pool of professionals with an extensive working knowledge of local and regional projects, emphasizing governmental land development and re-purposing projects. This convergence of experience has resulted in the development of important relationships with key agencies. In addition, we have a tremendous database of knowledge and information regarding local past and ongoing projects; an invaluable asset for our clients. The professionals of the KEITH Team take great pride in our personalized and professional approach which results in a quality product and the continuous success of our undertakings.



PROJECT MANAGER'S QUALIFICATIONS and RELEVANT EXPERIENCE

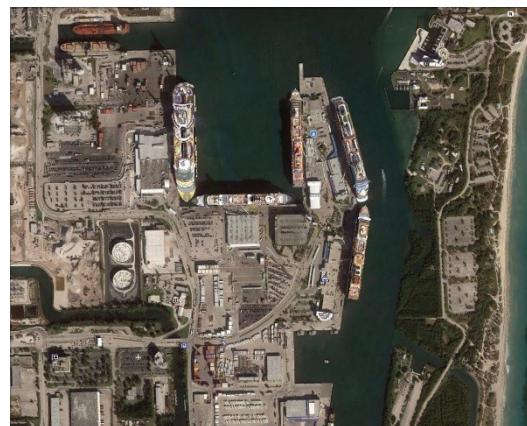


Mr. Stephen Williams Sr., PE, will serve as the Project Manager and direct contact person for this contract and KEITH commits Mr. Williams for the entire duration of the assignment. Mr. Williams, an active member of Port Everglades Association, is responsible for coordinating and managing all sub-consultant partners, as well as KEITH staff assigned to the project. He will ensure that all tasks are completed in a timely and effective manner, that proper communication and coordination are maintained and that all project activities are accurately documented. He will be involved in every aspect of the project - from design start-up through project closeout to ensure the highest quality project in the most responsive and timely manner.

Mr. Stephen Williams, Sr., PE has been engaged in civil and transportation engineering design and construction in South Florida since 1970. Mr. Williams has served as the record engineer for numerous transportation, utility, water management, municipal, aviation, recreation, roadway and land development (governmental, residential, mixed-use and commercial) projects in South Florida, including nine (9) projects at / for Port Everglades. Additional projects include Florida's Turnpike, Miami International and Fort Lauderdale-Hollywood International Airports and multiple projects for the local municipalities, school districts and universities. Projects have included roadway and site engineering design and analysis (paving, grading, drainage, water and sanitary sewer design and construction administration) for both private and governmental clients. Notably, Mr. Williams developed a SWMM EXTRAN computer model for the 55,000-acre Indian River Farms Water Control District.

KEITH served as a Consultant for various Port projects including:

- Port Everglades Southport Phase A&B
- Port Everglades Molasses Yard
- Port Everglades Consolidated Public Works Facility
- Port Everglades General Consulting
- Port Everglades Cruise Terminal 4
- Port Everglades Cruise Terminal 4 Phase II Expansion
- Port Everglades EFB
- Port Everglades F.I.T. Site
- Port Everglades Hotel Site Platting
- Port Everglades International Logistics Center
- Port Everglades Jetty Rehabilitation
- Port Everglades Master Plan Update
- Port Everglades T25 - Noury
- Port Everglades Terminal 2 & 4 Parking
- Port Everglades Test Holes - 1200 SE 28th Street
- Port Everglades Seafarers House
- Port Everglades Terminal 25



In addition to our vast experience at Port Everglades, the KEITH Team is also a consultant for the following local County projects:

- *Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects*
 - FLL 16" West Watermain Expansion Loop
 - FLL 16" North Perimeter Road Watermain Extension
 - FLL 8" Irrigation Transmission Pipe Extension Project (Greenbelt Irrigation)
 - FLL Utility Atlas - Phase I and Phase 2
 - FLL Western Tennant Drainage Improvements
- *FLL Runway 10R/28L, Parallel Taxiways and Crossfield Taxiways Utility Relocations*
 - 16" Sewer Transmission Force Main (East Perimeter Rd / Tunnel and Bridge Structures)
 - 16"- 12" Sewer Transmission Force Main (T4 Apron Relocation)
 - 24" Water Transmission Main (East Perimeter Rd / Tunnel and Bridge Structures)
 - 24" Water Transmission Main (South Perimeter Road / FEC Spur line)
 - 24" Water Transmission main (West Perimeter Road / Westside Development)
 - 24"- 16" Water Transmission Main (North/North East - Terminal 4 /Exit Roadway Connector)
 - 8" Water Main Loop (MSE Wall/BCAD Trailer Complex)
 - 8" - 12" Water Main Loop (Westside Development / Vault)
 - 8" Gravity Sewer Main (Westside Development / Vault)

Mr. Williams has an excellent record of not only establishing project budgets and schedules, but also puts forth the necessary effort to ensuring the budgets and schedules set in place are maintained and met throughout the life of the project. He consistently provides clear design solutions with quality control assurance. His attention to detail allows for expedited agency permitting with minimal contractor change orders, as a result. An example of his proactive management and leadership can be showcased through the Southport Phase IX-B Project for Port Everglades.

This project entailed the design, permitting, and construction contract administration associated with the development of new cargo handling container yards. These container yards are integral to the expansion of Port Everglades' Southport Turning Notch. This 23 acre Southport IX-B, Project proposed to construct the

paved laydown/storage yards for shipping containers or other port storage requirements. This involved the paving of the approximately 23 acre construction of an additional 1.2 A.C. dry retention area, connecting to the existing western dry retention areas west of the FEC-ICTF lease parcel. This connection is in lieu of the connections to the western retention areas that are in the existing conceptual permit. The project drains to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC. Mr. Stephen Williams Sr., PE provided management oversight for the completion of the stormwater report.

KEITH has also recently completed design, permitting and construction of eight (8) separate utility relocation/up-grade packages, with over 19,000 linear feet of new 24"- 16" water main and 16"- 8" sewer transmission force mains along with four (4) separate utility demolition packages. These projects were fast tracked through all stages of execution, resulting in BCAD recouping over six months of critical schedule creep for the overall South Runway Program.

Mr. Williams has worked closely with many local agencies and organizations. He is able to utilize the relationships he has built over his many years of experience in Broward County to effectively coordinate and expedite final certification packages through BCWWS, Broward County Environmental Protection and Growth Management Department (BCEPGMD), Florida Department of Environmental Protection (FDEP), Broward County Transportation Engineering Division (BCTED), Florida Department of Transportation (FDOT) and all 31 municipalities within Broward County.

These are just some examples of Mr. William's project management approach which includes stewardship, oversight, leadership, technical support and promotion of continuous quality control and improvement measures. He understands that public agency project oversight requires accountability that must be documented throughout the project and practiced by each of the team members. The key to a successful project management program is the acceptance of responsibility and accountability by the project/ contract staff, and support from the client's management staff. Mr. William's strengths include his responsiveness to the client, his ability to direct and coordinate team members, his ability to think outside the box, his ability to manage projects within schedule and budget, and finally his desire to tackle challenging tasks.

KEY TEAM MEMBERS

The dedicated KEITH Team listed below with their relationships and familiarity with staff and agencies having jurisdiction, combined with their knowledge and expertise with similar projects, will provide the most effective team. Following this section of brief personnel descriptions are detailed resumes of the Project Team members.



Stephen Williams Sr., PE | Project Manager | KEITH

Mr. Stephen Williams, PE has been engaged in civil and transportation engineering design and construction in South Florida since 1970. Mr. Williams has served as the record engineer for numerous transportation, utility, water management, municipal, aviation, recreation, roadway and land development (governmental, residential, mixed-use and commercial) projects in South Florida. These include projects at Florida's Turnpike, Miami International and Fort Lauderdale-Hollywood International Airports and multiple projects for the local municipalities, water control districts, school districts and universities. Projects have included roadway and site engineering design and analysis (paving, grading, drainage, water and sanitary sewer design and construction administration) for both private and governmental clients. He has served as the general municipal civil engineering consultant to the cities of Oakland Park, Miramar, Plantation, Fort Lauderdale, Sunrise, Pompano Beach and Tamarac throughout his career. Notably, Mr. Williams developed a SWMM EXTRAN computer model for the 55,000-acre Indian River Farms Water Control District.



Dodie Keith-Lazowick, PSM | Principal In Charge / Client Liaison | KEITH

Ms. Dodie Keith-Lazowick has over 41 years of professional experience. Ms. Keith-Lazowick handles the daily operations of the firm and serves as the Corporate Officer for all contracts, assuming responsibility for providing sufficient resource allocations and corporate commitment to our diverse client base. Ms. Keith-Lazowick is driven by new challenges and a desire to be successful through a hands-on, team-building management approach. Through her years of professional practice and local involvement, Ms. Keith-Lazowick is well versed in agency practices and requirements. Her extensive experience in South Florida has encompassed many phases of planning, design and construction. Further, she has supervised and provided complete development services of both public and private projects for commercial, industrial, transportation, aviation, marine, mixed-use and residential developments. She has particular expertise in governmental liaison and plays an integral role for the permitting and approvals of our projects due to her professional proactive approach. ***Ms. Keith-Lazowick also has served as a Board Member for the Port Everglades Association for several years beginning in 2012. In addition, Dodie is also being recognized as the 24th Annual South Florida Business Leader of the Year by the Seafarers House for leading the KEITH Team in their pro bono civil design for their new home.***

**Thomas Donahue, PE | QA/QC | KEITH**

Mr. Thomas Donahue has more than 40 years of experience in civil engineering projects including 15 years in South Florida. His qualifications include engineering design, quality assurance/quality control management, planning and environmental studies. Mr. Donahue's comprehensive experience includes: residential, commercial and industrial development, site plans, airports, highways, environmental analysis, local, state and federal permitting, right-of-way plans, utility and military designs. Project management experience includes management of professional staff of engineers, landscape architects and CAD personnel, development of project scope of work, contract negotiations, budgets, scheduling, quality control, oversight of resident inspectors and surveyors, review and processing of contractor's pay requests and client contact.

**Alex Lazowick, PE, PMP | Sr. Civil Engineer | KEITH**

Mr. Lazowick was introduced to civil engineering and construction by his grandfather, Mr. Bill Keith, founder of the firm. He is eager for the challenge to be the third family generation professional working to provide quality developments within the South Florida community. Mr. Lazowick has gained experience in civil engineering design projects including water, sewer and drainage systems, roadway design, permitting, and construction administration services. He understands the importance of working together as a team to quickly identify and establish project goals and achieve successful results in the most expedient and cost effective manner. His qualifications include knowledge with AutoCAD Civil 3D, Navisworks, Revit, BIM, Microsoft Office, computer networking, and he possesses excellent communication skills. Mr. Lazowick has a personal desire to contribute to the community and engineering related professions.

**Jame Wills, PE | Project Engineer | KEITH**

Mr. Wills is a professional engineer with five years of experience in design, permitting, and construction inspection. Mr. Wills' experience includes projects with Miami-Dade County Public Schools, University of Miami, City of Opa-Locka and several private entities. Duties include design, drainage calculations, plans preparation, shop drawing review, responding to contractor's request for information, coordinating with plan reviewers and addressing comments. Software experience includes Cascade 2001, ICPR, AutoCAD and Civil 3D.

**Lee Powers, PSM | Project Surveyor | KEITH**

Mr. Lee Powers has over 13 years of experience in land surveying and mapping in South Florida. He has worked with many local municipalities and government agencies to create and/or modernize their GIS Systems. He has also performed construction, right-of-way, control, ALTA, boundary, as-built and topographic (both acreage and coastal) surveys. He has extensive laser scanning experience with a particular emphasis on architectural modeling, historical preservation and infrastructure monitoring. He is well-versed in the scan-to-model workflow. He coordinates our BIM/VDC staff to ensure a quality and accurate model. Mr. Powers has extensive Project Management experience for large-scale projects and continuing service type contracts for both public and private sector clients. He is knowledgeable in the use of a wide range of state-of-the-art surveying equipment and associated computer technologies. He has extensive experience in field crew supervision, quality control and client relations.

**Dan Checchia | Vice President Location Services | KEITH**

Mr. Checchia has over 20 years of experience and currently heads the Locations Department as the Vice President of Location Services at KEITH, overseeing all Subsurface Utility Engineering, Utility Coordination, and Surveying services for KEITH. Mr. Checchia has worked on numerous utility projects for Broward County agencies including BCWWS, Roadway Engineering and BCAD. Mr. Checchia is responsible for assisting clients with utility research, identification, data management and coordination. In addition to his strong rapport with local utilities and municipalities, his knowledge and experience in the Subsurface Utility Engineering process allows him to easily recognize utility conflicts during design and construction.

**Michael Mossey, PSM | Senior Surveyor and Mapper | KEITH**

Mr. Mossey has over 40 years of experience in land surveying and mapping in South Florida. He has extensive senior project management experience for large-scale projects and continuing service, on-call type contracts for both public and private sector clients. He is a highly talented Quality Surveyor with a successful track record in budget estimation, valuation of items and completing projects on time. Mr. Mossey's experience includes a wide range of projects incorporating GIS deliverables for various agencies including Broward County, the Federal Aviation Administration (FAA) and municipalities.

**Paul Weinberg, RLA, ASLA | Vice President Planning and Landscape Architecture | KEITH**

Mr. Paul Weinberg is a multi-talented designer and team leader who has been based in South Florida since 2000. During this time, he has worked with a variety of significant public and private sector projects including urban parks, hotels, campuses, plazas, mixed-use development, entertainment districts, streetscapes, waterfront and residential projects that provide meaning and purpose to the community. He has a unique understanding of how to create immersive, authentic and memorable spaces that create place identity to bring vitality to each district. He is committed to a team-based approach that delivers creative, thought-provoking solutions tailored to the distinct character of each project. This collaboration starts with the multi-disciplinary approach at KEITH and builds to include other partners, consultants, and co-collaborators.

**James Thiele, PE | Sr. Project Engineer | KEITH**

Mr. James Thiele has over 30+ years of experience in performing Land Development Civil Engineering in South and Central Florida as well as central Pennsylvania. His experience includes all aspects of site planning, grading and drainage, sanitary sewer collection, water distribution system design and construction supervision services. His experience includes senior level project oversight and management of multiple stages of the design and development processes for residential, recreational, commercial, industrial and institutional developments. All the projects Mr. Thiele has worked on required interaction and coordination with multiple governing agencies as well as other professional disciplines. Knowing the process from conception to project close-out affords him the ability to foresee issues that affect costs, schedule and quality of a project. He uses this knowledge and experience to quickly address and solve any problems that inevitably arise during a project and proactively seeks to remediate any issues for the client's best interest.



moffatt & nichol

Jaime Pabon | Senior Environmental Scientist | Moffatt & Nichol

Mr. Pabon has more than 18 years of experience in the environmental arena with focus on a wide variety of regulatory matters including wetlands, transportation (roadways, airports, and ports), endangered species, wildlife management, mitigation planning/implementation, energy, and facilities. His main strength is directly tied to project and client management as well as coordination with regulatory agencies. With a broad knowledge of National Environmental Policy Act (NEPA) guidelines, Mr. Pabon serves as an expert in environmental assessments (EA)/environmental impact statement (EIS) creation and related project components development. His experience has significantly engaged his skills and knowledge in port operations and development, as well as estuarine systems management and remediation (mostly related to EPA National Estuary Program), mitigation banking, non-profit organizations, and public- private partnerships.



moffatt & nichol

Tim Blankenship, PE | Senior Engineer | Moffatt & Nichol

Mr. Blankenship has more than 25 years of experience with waterfront/marina, port infrastructure, and coastal engineering consulting projects throughout the US, Caribbean, and Central America. He has participated in the field investigations, planning, regulatory permit processing, engineering design, and construction management of all phases of marine works implementation. He has demonstrated project experience with projects at (or in the vicinity of) PortMiami as well as similar coastal/waterfront projects throughout Miami-Dade County. Mr. Blankenship has managed contracts for many local municipalities as well as for several departments within Miami-Dade County for the past 18 years. He has served as engineer-of-record for more than 100 coastal/waterfront/port projects in Miami-Dade County.



moffatt & nichol

Deb MacPherson, PE | Structural Engineer | Moffatt & Nichol

Ms. MacPherson has more than 18 years of project management and structural engineering experience with expertise in inspection, assessment, planning, design, construction document preparation, and post-construction award services for waterfront civil and structural projects with a focus on design of new and renovated waterfront structures. She completes these projects for a variety of public and private clients such as the Florida Department of Transportation, US Navy, US Coast Guard, and Air Force; municipal and state governments; container terminals; shipyards; oil and bulk ship terminal owners; and other organizations.



moffatt & nichol

Scott B. Lagueux, AICP, LEED AP BD+C | Waterfront and Land Planning | Moffatt & Nichol

Mr. Lagueux specializes in waterfronts, resorts, and international development and has completed urban and commercial waterfront projects throughout the US and in more than 70 countries. Given his specialization in waterfront planning, typical projects have included parking and open space, marina, cruise, commercial, heritage, and supporting transportation infrastructure. Mr. Lagueux joined Moffatt & Nichol to broaden the firm's waterfront planning services. With more than 23 years as a consultant, Mr. Lagueux has led a broad spectrum of planning engagements, inclusive of strategic planning, master planning, market analysis, feasibility study, project criteria development, and concept design, as well as input to associated economic impact analysis and environmental studies for both large- and small-scale projects. Beyond planning, Mr. Lagueux has carried projects through analysis, design, and construction document preparation to bid and construction services.



moffatt & nichol

Jackie Brower, PhD, PE | Coastal Engineer and Scientist | Moffatt & Nichol

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



moffatt & nichol

Lynette Cardock, PhD, LEED AP | Director, Resilience and Adaptation | Moffatt & Nichol

Dr. Lynette Cardock leads Moffatt & Nichol’s global resiliency services as the Director of Resilience & Adaptation. She is a coastal ecologist with more than 20 years of experience in regulatory & water policies, coastal restoration, and urban & coastal resiliency. With her technical qualifications and collaborative management style, her assignments include steering interdisciplinary teams of engineers, scientists, and regulators. Dr. Cardock has also worked closely with coastal utilities and natural resource agencies on integrated planning and operationalizing resiliency, particularly for coastal protection, storm surge, and interior flooding. She was an invited speaker to the AAPA Facility Engineering Conference (April 2019) and the AAPA CEO/Directors Meeting (July 2019) where she discussed port resiliency. She is an active resident of Miami-Dade County, recently appointed to the Biscayne Bay Task Force, which is charged with evaluating the health of the Bay and potential coastal improvements.



moffatt & nichol

Samuel R. Morrison | Technical Director Dredge Services | Moffatt & Nichol

Dynamic construction project manager with history of leading multi-million-dollar projects to timely and effective completion. Mr. Morrison’s 29-year career has involved expertly managing profit & loss (P&L), project resources, and engineering staff in US-based and overseas operations. Excellent track record of managing multiple operations, including project planning, estimating, bidding, and administration. Cultivate and maintain effective business relationships with key executive stakeholders across enterprise accounts. Enforce quality control and adherence for private and municipal clients.



moffatt & nichol

Nina Piccoli | Coastal / Port Engineering Designer | Moffatt & Nichol

Ms. Piccoli has more than four years of experience, specializing in port planning, logistic simulations, and coastal engineering. She has experience with projects in Europe, Middle East, Brazil, US, and Bahamas. With a comprehensive knowledge of river, port, coastal, and waterfront engineering, she is skilled in the use of multiple modeling tools including Arena, FlexSim, Delft3D, MIKE 21, SOBEK, and UNIBEST. She is also multilingual in English, Portuguese, French, and Spanish. In addition to her project experience, Ms. Piccoli has been actively involved in PIANC since 2013, specifically in the Young Professional Commission, and is currently vice-chair for the Americas.

SUBCONSULTANT PROJECT TEAM

To deliver unmatched service to Port Everglades, a world-class team must be assembled. For this project, KEITH is thrilled to have national and local partners of the highest caliber. We have selected our team of subconsultants based on their technical expertise, our working relationships with their team members, and their experience on Port and municipal projects. Additionally, we have ensured that we have several CBE / SBE / M/WBE subconsultants to ensure that we meet or exceed the County's 25% CBE goals, no matter the task order or scope of work. An overview of the firms we have included on our team and their disciplines are presented below.







MOFFATT & NICHOL | MARINE AND PORT PLANNING AND ENGINEERING

Moffatt & Nichol has been a global leader in port planning and engineering for more than 70 years. Clients around the world look to M&N for guidance in their planning and design needs for their modern marine infrastructure, and the related infrastructure needed to support them. As industry trendsetters at the forefront of technical innovations, efficiencies, and emerging trends, M&N's professionals maintain the highest degree of readiness and competency to meet Port Everglades' present and future needs. The firm has more than 38 offices around the world and more than 770 professionals specializing in waterfront engineering projects. Their staff includes the largest collection of maritime engineers of any consulting firm in the United States. The firm is currently ranked third in maritime and ports facilities by respected industry publication Engineering News-Record.

Moffatt & Nichol has more than 50 Florida-based professionals working on marine engineering and construction, environmental permitting, coastal engineering, and transportation infrastructure projects for public and private sector clients. Their reputation for excellence in the marine engineering and environmental permitting fields has been built on years of experience working on complex and challenging projects along the world's coastlines. Today, the firm offers clients an elite, influential staff of engineers, planners, and scientists who are recognized for solving global and local problems where land and water meet. Members of the Moffatt & Nichol team offer industry leading experience in port engineering. Combined with our local, national, and global portfolio, PortEverglades has access to virtually any service related to new or rehabilitation terminal projects and current innovations in operations technology including waterproofing and sub-aqueous inspections. M&N has been consulting in Florida since 1985 and has an established presence in Florida with offices located in Fort Lauderdale, Miami, Orlando, Tampa, Pensacola, Chipley, and Tallahassee.





CPZ ARCHITECTS | ARCHITECTURE

The building design is an important aesthetic issue for every building developer. Our personal experience shows that even the most basic buildings, such as a police horse barn, can be designed to provide an economical and award-winning solution. In addition, we've designed other facilities that have received awards from their respective organizations, including the Holiday Tennis Park (awarded by United States Tennis Associates, Outstanding Tennis Facility Award) and the Hollywood Fire Station (Fire Chief Magazine, First Place Career Station Award). These facilities showcase our commitment to good, solid design. Our services span the spectrum of architectural design – master planning, site planning, project phasing, feasibility studies, building design, renovations, new buildings, building maintenance, and construction administration. Ultimately, we are dedicated to personal service to our clients by the firm principals. We invite you to contact us to discuss your architectural needs and let us provide you with the same unparalleled service we bring to each of our clients.



FLORIDA ENGINEERING & TESTING, INC. (FE&T) | GEOTECHNICAL

Florida Engineering & Testing, Inc. is a multi-disciplinary engineering and consulting services firm offering environmental engineering, geotechnical engineering, construction materials testing, special inspections, project management, and consulting. Since our inception in 1994, FE&T has continued to grow to meet the needs of our diverse and changing client base. We currently provide consulting services to both the public and private sectors focusing on residential, commercial, educational, and aviation projects. Our engineering and testing operations focus on the tri-county area, but our service extends throughout all of South Florida.



CHAPPELL GROUP | ENVIRONMENTAL

The Chappell Group, Inc. (TCG) is a certified WBE/CDBE/SBE firm that covers the specialized fields of wetlands delineation, marina and wetland permitting, marina design, wetland mitigation, and monitoring; threatened and endangered species surveys and habitat management plans; environmental impact assessments; Phase I environmental site assessments; benthic surveys; and all forms of environmental permitting and compliance for Federal, State, and local agencies. In this regard, TCG is unique because engineering, environmental, regulatory, scientific, and operational field expertise are available for multi-disciplinary projects, residential, commercial, educational, and aviation projects. Our engineering and testing operations focus on the tri-county area, but our service extends throughout all of South Florida.



DELTA G | MEP ENGINEERING

Delta G Consulting Engineers, Inc. was founded in 1992. We are registered with the USGBC. We are a full service consulting engineering firm dedicated to providing our clients with the highest quality Electrical, HVAC, Plumbing and Fire Protection engineering services at a competitive cost. Delta G office has a total of 5 Registered Professional Engineers, 13 Engineers/Designers, and support staff; including, 12 LEED Accredited Professionals. We have over 300 years of Engineering Experience with the average engineer having 18 years of experience.



OFFICE LOCATIONS

All of the KEITH Team members responsible for the production of work associated with this contract will perform their work from our Corporate office, which is conveniently located less than 10 miles from Broward County Government Center. Our proximity to the County allows us the opportunity to provide a level of responsiveness that few firms are able to match. Below are the physical locations pertaining to each individual and firm presented on the team organizational chart. Our commitment is to always be there when you need us.

KEITH | PRIME

301 E Atlantic Blvd
Pompano Beach, FL 33060

DELTA G | SUBCONSULTANT/**CBE

707 NE 3rd Ave, # 200
Fort Lauderdale, FL 33304

MOFFATT & NICHOL | SUBCONSULTANT

100 W Cypress Creek Rd, Suite 960
Fort Lauderdale, FL 33309

CHAPPELL GROUP | SUBCONSULTANT/**DBE

714 E McNab Rd
Pompano Beach, FL 33060

CPZ ARCHITECTURE | SUBCONSULTANT

4316 W Broward Blvd
Plantation, FL 33317

FE&T | SUBCONSULTANT/**CBE

250 SW 13th Ave
Pompano Beach, FL 33069



ADOLPHINE "DODIE" KEITH-LAZOWICK, PSM

President / Client Liasion

Ms. Dodie Keith-Lazowick, with over 41 years of professional experience, succeeds her father, Bill Keith, as a second-generation professional surveyor, President and Managing Principal of the firm. By continuing the civic philosophy and commitment to professional excellence, the firm has grown to over 100 qualified staff members and services South Florida as a whole from our Pompano Beach and Doral centers of operations. Ms. Keith-Lazowick handles the daily operations of the firm. She serves as the Corporate Officer for all contracts, assuming responsibility for providing sufficient resource allocations and corporate commitment to our diverse client base.

Ms. Keith-Lazowick is well known to the community and the agencies through her years of professional practice, local involvement and as a 55+ year resident of Broward County. Her extensive experience in South Florida has encompassed many phases of planning, design and construction including Civil Engineering, Surveying and Mapping, Comprehensive Land Planning, Landscape Architecture, Subsurface Utility Locations and Utility Coordination, and Construction Management. As a Senior Project Coordinator-Manager, she has supervised and provided complete development services of both public and private projects for commercial, industrial, transportation, aviation, marine, mixed-use and residential developments. She has particular expertise in governmental liaison and has been extremely successful as an advocate for the permitting and approvals of our projects due to her professional proactive approach.

Ms. Keith-Lazowick is driven by new challenges and desire to be successful through hands-on, team-building management approach. She has extensive experience in management of governmental contracts acting in an owner's rep, and construction manager capacity. She has extensive management experience on large governmental programs and understands the importance of meeting the needs of the owner from concept through implementation.

RELEVANT PROJECT EXPERIENCE

Port Everglades A/E Services, Fort Lauderdale, FL: KEITH is providing landside civil engineering, surveying and subsurface utility engineering (SUE) services for this continuing services contract. KEITH is responsible for coordinating all design, surveying and SUE efforts. Dodie is also the firm's liaison with the owner and other consultants. This contract is an on-call general services type contract, which is utilized to provide any array of civil engineering services to the client.

Port Everglades Southport Phase IX-B, Fort Lauderdale, FL: This Proposed 23-acre Southport IX-B phase of the project proposes to construct the paved laydown/storage yards for shipping containers or other port storage requirements. This involves the paving of the approximately 23-acres and an additional 1.2-acre dry retention area, which will connect to the existing western dry retention areas with dual 42" reinforced concrete pipes west of the FEC-ICTF lease parcel. These 42" connections are in lieu of the connections to the western retention areas that are in the existing conceptual permit. The proposed project will drain to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC.

Port Everglades Southport Phase IX, Fort Lauderdale, FL: KEITH is providing landside civil engineering, surveying and subsurface utility engineering (SUE) services for this two-phase project that includes the demolition of the existing Foreign Trade Zone facility and design and construction of a new container yard which will be a cargo handling facility and also includes ancillary buildings. Mr. Williams is serving as KEITH' senior project manager responsible for coordinating all design, surveying and SUE efforts. He is also the firm's liaison with the owner and other consultants.



Years of Experience
41

Education
B.S. Land Surveying,
University of Florida,
1982

Professional Registrations
Professional Surveyor &
Mapper, State of Florida,
#4105 (1984)

Professional Affiliations
Florida Survey and
Mapping Society (FSMS)

*American Congress on
Surveying and Mapping*

*National Society of
Professional Surveyors*

Publications
Co-editor, "Laws and
Regulations Affecting
Surveying Practice in
Florida," ACSM/FSPLS
Student Chapter, 1982

*Co-author, "Total Station
Capability," Proceedings
of the ASCM, Fall 1984,
San Antonio, Texas*

Broward County Civil/Family Courthouse Construction Project Management Services (CPM): Ms. Keith-Lazowick served as Contract Manager/Principal-In-Charge providing Construction Project Management Services providing direct administrative support to the Broward County Project Manager and to provide for Owner's Representative Services assistance in support of the Design and Construction Phases of the Project. KEITH is also responsible for the Project Document Control system, supporting Public Relations activities and coordination during the performance of the CPM Services through construction.

BCWWS Water and Waste Water Services Continuing Contract, Broward County, FL: Broward County Water and Wastewater Services is implementing a new septic tank elimination program which consists of short sanitary sewer runs to serve small pockets of previously unserved properties. KEITH is providing engineering services for water distribution, wastewater collection and storm water collection systems. As the Prime consultant, KEITH is providing design and construction support services throughout the county related to the septic tank elimination program.

Broward County Segment II Shore Protection Project, Broward County, FL: The purpose of this project was to work with Broward County to document basic building and infrastructure information in support of the planning for the Broward County Segment II Shore Protection Project, a project intended to provide sand nourishment along portions of the Pompano Beach, Lauderdale-by-the-Sea, and Fort Lauderdale shorelines. Specifically, KEITH was responsible for documenting the lower level elevations of all buildings, seawalls, pools, tennis courts, walkways, and other attendant infrastructure on all properties within approximately 1,000 feet of the beach along these areas. This information was used by the County and the US Army Corps of Engineers in support of the project planning and feasibility studies.

Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL: Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects (Prime Consultant): KEITH is providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities. Some of the assigned projects include:

- 12" Westside Water Main Loop
- 16" Water Transmission Main North Perimeter Road
- FLL Runway 10R-28L Settle Monitor
- FLL 10L-28R Pavement Restoration
- FLL South Runway Drainage Mitigation
- FLL Short Term Traffic/Parking Improvements

Everglades Holiday Park Improvements, Fort Lauderdale, FL: KEITH is providing comprehensive design, permitting, bid and construction phase services associated with site improvements at Everglades Holiday Park. The improvements include renovation, construction and/or reconstruction of boat docks, boat ramps, parking, limited utility infrastructure and other minor park related amenities and improvements. Some of the unique challenges this park is facing is the single-lane bridge park access, general site flooding from lack of adequate drainage for flood protection and water quality from existing well, and the existing facility not meeting ADA requirements.

FDOT District 4 Miscellaneous Survey Contract: Ms. Keith-Lazowick is currently serving as Senior Surveyor and Mapper for this General Services Contract that was awarded to KEITH in 2011. Typical project types included right-of-way recovery, stakeout of existing right-of-way, control surveys, boundary surveys, topographic surveys and setting of aerial targets in support of aerial photogrammetry. This was a 5-year contract expiring in September 2016, which provided \$1,200,000 in contract fees.

School Board of Broward County - Program Management Services, Broward County, FL: Ms. Keith-Lazowick served as Contract Manager/Principal-In-Charge for the Broward County School District under the HEERY Program Management Team on new construction, comprehensive renovation and new addition projects. Her responsibilities focused on staffing, scheduling and resources for the \$50M capital projects contract. Project samples included complete roof replacements, HVAC renovations, ADA compliance, lead and asbestos abatements, drainage and site improvements, demolition and building renovations.


KEITH
STEPHEN WILLIAMS, SR., PE

Vice President of Civil Engineering / Project Manager

Mr. Stephen Williams has been engaged in civil and transportation engineering design and construction in South Florida since 1970. Mr. Williams has served as the record engineer for numerous transportation, utility, water management, municipal, aviation, recreation, roadway and land development (governmental, residential, mixed-use and commercial) projects in South Florida. These include projects at Florida's Turnpike, Miami International and Fort Lauderdale-Hollywood International Airports and multiple projects for the local municipalities, school districts and universities. Projects have included roadway and site engineering design and analysis (paving, grading, drainage, water and sanitary sewer design and construction administration) for both private and governmental clients. He has served as the general municipal civil engineering consultant to cities of Oakland Park, Miramar, Plantation, Fort Lauderdale, Sunrise, Pompano Beach and Tamarac throughout his career. Notably, Mr. Williams developed a SWMM EXTRAN computer model for the 55,000-acre Indian River Farms Water Control District. Mr. Williams also serves as the Firm's Senior Quality Assurance /Quality Control (QA/QC) Officer and continuously monitors all projects for compliance with our established QA/QC Program.

RELEVANT PROJECT EXPERIENCE

Port Everglades A/E Services, Fort Lauderdale, FL: KEITH is providing landside civil engineering, surveying and subsurface utility engineering (SUE) services for this continuing services contract. Mr. Williams is serving as KEITH' senior project manager responsible for coordinating all design, surveying and SUE efforts. He is also the firm's liaison with the owner and other consultants. This contract is an on-call general services type contract, which is utilized to provide any array of civil engineering services to the client.

Port Everglades Southport Phase IX-B, Fort Lauderdale, FL: This Proposed 23-acre Southport IX-B phase of the project proposes to construct the paved laydown/storage yards for shipping containers or other port storage requirements. This involves the paving of the approximately 23-acres and an additional 1.2-acre dry retention area, which will connect to the existing western dry retention areas with dual 42" reinforced concrete pipes west of the FEC-ICTF lease parcel. These 42" connections are in lieu of the connections to the western retention areas that are in the existing conceptual permit. The proposed project will drain to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC. Mr. Williams served as the lead site design engineer and Project Manager.

Port Everglades Southport Phase IX, Fort Lauderdale, FL: KEITH is providing landside civil engineering, surveying and subsurface utility engineering (SUE) services for this two-phase project that includes the demolition of the existing Foreign Trade Zone facility and design and construction of a new container yard which will be a cargo handling facility and also includes ancillary buildings. Mr. Williams is serving as KEITH' senior project manager responsible for coordinating all design, surveying and SUE efforts. He is also the firm's liaison with the owner and other consultants.

Everglades Holiday Park, Broward County, FL: KEITH is providing comprehensive design, permitting, bid and construction phase services associated with site improvements at Everglades Holiday Park. The improvements include renovation, construction and/or reconstruction of boat docks, boat ramps, parking, ancillary buildings, limited utility infrastructure, other minor park related amenities and improvements. This project will include LEED "Green" design principles. Mr. Williams is serving as the project manager and Engineer of Record.



Years of Experience
48

Education
B.S. Civil Engineering,
University of Florida,
1977

Professional Registrations
State of Florida
Professional Engineer,
#32090 (1982)

Professional Affiliations
American Society of
Civil Engineers (ASCE),
Member

Florida Engineering Society (FES), Member

National Society of Professional Engineers (NSPE)

STEPHEN WILLIAMS, PE

Page 2

Fort Lauderdale-Hollywood International Airport (FLL) Utility Atlas Updates, Fort Lauderdale, FL: Mr. Williams is serving as the QA/QC manager for this extensive 550+ acres project consisting of engineering design surveys, establishing geodetic and vertical control, drainage as-builts, subsurface utility engineering and aerial photography survey support. The utility atlas is an on-going effort compiling years of historic as-built and record drawing information as well as current surface and subsurface utility infrastructure. New information from on-going construction projects throughout the airport is being added to the atlas and made available to the airport's consultants and sub-consultants to assist in their design needs.

City of Oakland Park, General Engineering Services, Oakland Park, FL: Mr. Williams served as the Project Manager, providing professional engineering services for projects identified in the City's Capital Improvement Plan, Stormwater Master Plan, Community Development Program and miscellaneous engineering services. Projects included design services for drainage/stormwater management systems, water/wastewater utility systems, including related roadway, utility, environmental and permit related services; and landscaping.

City of Parkland Miscellaneous Engineering, Planning & Survey Services Contract, Parkland, FL: KEITH provides ongoing continuing services on an as needed basis for General Planning, Engineering and Surveying and Mapping services to the municipality. Some projects provided under these contracts include: Parkland Roundabout Conceptual Design, Tennis Center at Quigley Park, Holmberg Road Roadway Improvements, and miscellaneous topographic and boundary surveys for various municipal design contracts.

City of Pompano Beach Miscellaneous Civil Engineering Services, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over 16 years on an as needed basis. All services of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.

Hallandale Fire Station No. 7 and EOC Headquarters, Hallandale Beach, FL: The City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and includes a 25,000-SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH provided civil engineering, landscape architecture and SUE services.

Marathon International Airport (MTH), Marathon, FL: Mr. Williams as Project Manager for the Preparation Florida Department of Environmental Protection Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity. This permit became effective July 06, 2013. Implementation of the MSGP included the preparation of A Storm Water Pollution Prevention Plan (SWPPP) that provides guidance and lists actions taken to prevent contamination of stormwater. The SWPPP was been developed so as to extend the current Multi Sector Generic Permit for Storm Water Discharge Associated with Industrial Activity (MSGP) for the Marathon International Airport (MTH) following state regulation governing storm water discharges from airport facilities. The MSGP permit is renewed every five years.

Margate CRA General Engineering Consulting Services, Margate, FL: KEITH is currently providing civil engineering, surveying, utility locating, landscape architecture, traffic and environmental services for this continuing services contract for the City of Margate CRA. Mr. Williams is serving as KEITH's contract manager responsible for providing professional engineering services for projects identified in the CRA's Capital Improvement Plan and miscellaneous engineering services. Signature projects include: Colonial Drive Traffic Calming, Pedestrian Routing and Streetscape Improvements; Winfield Boulevard Traffic Calming and Streetscape Improvements; Atlantic Boulevard Streetscape Improvements.

Tamarac Fire Station No. 78 Design/Build, Tamarac, FL: KEITH, as a subconsultant partner to West Architecture, provided civil engineering, permitting, traffic engineering, landscape architecture and construction services for the replacement of the existing Tamarac Fire Station 78 located at 4801 W Commercial Blvd in Tamarac, Florida. The 9,300-SF facility was constructed with LEED-certified products. As a Design/Build project, KEITH has been an active participant in determining costs and cost alternatives to keep overall costs within the anticipated budget.



THOMAS DONAHUE, PE

Director of Engineering / QA/QC Officer

Mr. Thomas Donahue has more than 40 years of experience in civil engineering projects including 15 years in South Florida. His qualifications include engineering design, quality assurance/quality control management, planning and environmental studies. Mr. Donahue's comprehensive experience includes: residential, commercial and industrial development, site plans, airports, highways, environmental analysis, local, state and federal permitting, right-of-way plans, utility and military designs. Project management experience includes management of professional staff of engineers, landscape architects and CAD personnel, development of project scope of work, contract negotiations, budgets, scheduling, quality control, oversight of resident inspectors and surveyors, review and processing of contractor's pay requests and client contact.

RELEVANT PROJECT EXPERIENCE

Port Everglades A/E Services, Fort Lauderdale, FL: KEITH is providing landside civil engineering, surveying and subsurface utility engineering (SUE) services for this continuing services contract. KEITH is responsible for coordinating all design, surveying and SUE efforts. Dodie is also the firm's liaison with the owner and other consultants. This contract is an on-call general services type contract, which is utilized to provide any array of civil engineering services to the client.

Sunshine Water Control District (SWCD), Coral Springs, FL: Mr. Donahue was responsible for providing consulting services to assist in the control and management of surface water. His responsibilities included the management of capital improvement projects; review of stormwater applications; review and updates to the Master Plan; preparation of estimates; canal restoration and culvert replacement programs; hydraulic studies and modeling; review of existing and proposed collection systems and their impacts on runoff; preparation of reclamation plans; and identification and monitoring within the watershed. Mr. Donahue was also responsible for two new pump station replacements at a cost of \$7 million, serving 16,000 landowners and 5,000 acres of residential and commercial lands. The project was named the 2012 Project of the Year by the Broward County Chapter of the American Society of Civil Engineers.

Broward County School Board, Broward County, FL: As project manager under a landscape architecture Continuing Services Contract, Mr. Donahue was responsible for numerous projects including:

- *Stormwater Permit Recertifications* - The 5-year renewal of District school properties to bring the School Board current with their Surface Water Management Licenses. Services included paving, grading and drainage inspections of approximately 30 schools; coordination of the repair work by the Contractor; and monitoring the recertification requirements with the County.
- *Bayview Elementary* - Design of a wall and buffer between school property and adjacent residential property
- *Hollywood Central Elementary* - Redesign of existing courtyard drainage system with applicable hardscape and landscape.
- *Ft. Lauderdale High School and Nature Walk* - The design of a bus/auto parking and circulation, student walkways, site drainage and playfield replacement.
- *South Plantation High School* - Development of conceptual site and landscape plans for Kissimmee-Okeechobee-Everglades (KOE) Watershed project in conjunction with the proposed Everglades Restoration and Environmental Science Magnet Facility.



Years of Experience
40

Education
B.S. Civil Engineering,
Northeastern University,
1978

Professional Registrations
State of Florida
Professional Engineer,
#60529 (2033)

Professional Affiliations
National Association
of Industrial and Office
Parks (NAIOP) Member

Institute of Transportation Engineers, Gold Coast Chapter Member

American Society of Civil Engineers Member

THOMAS DONAHUE, PE

Page 2

Charlotte J. Burris Civic Center, Pompano Beach, FL: KEITH is currently providing civil engineering, permitting, construction administration and coordination and landscape architecture services for the 8,712-SF Charlotte J. Burrie Community/ Civic Center location in Pompano Beach. The Center is designed with multipurpose meeting spaces for civic, social, and recreational activities, easy pedestrian access with ADA compliance, porte cochere entrance for inclement weather protection, and 48 vehicular and 20 bicycle parking spots. Interior floor plans feature reception area and administrative offices; small conference room; assembly spaces for classes or meetings; large multipurpose room to offer table seating for 125, or theater style seating for 250, as well as a performance stage; and a warming kitchen, restrooms, and storage areas.

Dania Beach ROW Improvements, Dania Beach, FL: Relocation of a city water line and significant landscape improvements along US-1 from Stirling Road south to Sheridan Street; permitting through the City of Dania Beach and the Broward County Health Department; and site inspections to monitor water main tapping and installation and landscape installations.

Hallandale Fire Station No. 7 and EOC Headquarters, Hallandale Beach, FL: The City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and includes a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH provided civil engineering, landscape architecture and SUE services.

Marathon Library, Marathon, FL: Mr. Donahue serves as QA/QC Manager responsible for internal Quality Assurance/ Quality Control aspects during the design and construction process for the \$6.7 million, 14,000-SF library, to ensure designs met all local, state and federal compliance and internal Quality Control processes. KEITH' responsibilities include Civil site, utility, landscape design, permitting, bid award and construction observation.

Parkland Fire Station No. 42 Site Plan, Parkland, FL: KEITH is putting together a set of plans for Parkland Fire Station No. 42 Building Addition of additional 529.5 SF to accommodate additional dormitories. KEITH provided surveying, subsurface utility engineering (SUE), engineering design, permitting, utility coordination, and construction administration services; which included some off-site roadway, drainage and utilities improvements.

Pompano Beach Fire Station No. 24 Design/Build, Pompano Beach, FL: KEITH, as a subconsultant partner to Currie Sowards Aguila Architects and West Construction, is currently providing engineering design and permitting, project coordination, surveying, landscape architecture and construction services for the replacement of the existing Pompano Beach Fire Station 24 located at 2001 NE 10th Street. The scope of work includes design and construction for this new two story, multi-bay fire protected building. New utilities and services along with new landscaping, 23 parking spaces, offices training room and an exercise room on the first floor.

Signalization and Pavement Marking Improvements along MLK Boulevard at Intersections with Blount Road and NW 31st Avenue, Pompano Beach, FL: As part of our General Engineering Continuing Contract with the City of Pompano Beach, KEITH is currently providing engineering, surveying and SUE services to provide new signalization to the Blount Road and MLK Boulevard intersection that will link and properly sequence with the existing signal at NW 31st Avenue and MLK Boulevard.

Tamarac Fire Station No. 78 Design/Build, Tamarac, FL: KEITH, as a subconsultant partner to West Architecture, provided civil engineering, permitting, traffic engineering, landscape architecture and construction services for the replacement of the existing Tamarac Fire Station 78 located at 4801 W Commercial Blvd in Tamarac, Florida. The 9,300 SF facility was constructed with LEED-certified products. As a Design/Build project, KEITH has been an active participant in determining costs and cost alternatives to keep overall costs within the anticipated budget.

Waste Management Center Beautification Project, Broward County, FL: Mr. Donahue managed all aspects of the project including the conceptual and final design, tree assessment and mitigation, permit coordination, construction administration of perimeter streetscape, facility signage, entry features and amenities.





KEITH

ALEX LAZOWICK, PE, PMP

Executive Vice President / Sr. Civil Engineer

Mr. Lazowick was introduced to civil engineering and construction by his grandfather, Mr. Bill Keith, founder of the firm. He is eager for the challenge to be the third family generation professional working to provide quality developments within the South Florida community. Mr. Lazowick has gained experience in civil engineering design projects including water, sewer and drainage systems, roadway design, permitting, and construction administration services. He understands the importance of working together as a team to quickly identify and establish project goals and achieve successful results in the most expedient and cost effective manner. His qualifications include knowledge with AutoCAD Civil 3D, Navisworks, Revit, BIM, Microsoft Office, computer networking, and he possesses excellent communication skills. Mr. Lazowick, as the firms BIM Manager, oversees all 3D oriented projects. From Laser Scanning to 3D GIS, Mr. Lazowick is tasked with getting the job done. He manages the client relationship and QC's all 3D deliverables. He is always eager to try new software and find new workflows to help save our clients time and money. He is Autodesk Certified and well qualified with all Autodesk, ESRI and Lecia software. He trains all new employee on the needed software. He is also tasked with assembling new computers to handle the ever growing file sizes.



Years of Experience
10

Education
B.S. Civil Engineering,
University of North
Florida, 2010

Professional Registrations
Professional Engineer,
State of Florida, #78625
(2015)

Project Management Professional Certification
No. 2554175 (2019)

Professional Affiliations
ASCE Member

FES Member

BIM Smart Foundation Member

BuildingSMART Foundation Member

Professional Certifications
Troxler Nuclear Gauge

FDOT Workzone Traffic Control Intermediate Level MOT

30 Hour OSHA General Industry safety and health hazard recognition and prevention

RELEVANT PROJECT EXPERIENCE

BCWWS Water and Waste Water Services Continuing Contract, Broward County, FL: Broward County Water and Wastewater Services is implementing a new septic tank elimination program which consists of short sanitary sewer runs to serve small pockets of previously unserved properties. KEITH is providing engineering services for water distribution, wastewater collection and storm water collection systems. As the Prime consultant, KEITH is providing design and construction support services throughout the county related to the septic tank elimination program.

North Regional Wastewater Treatment Plant (NRWWTP) Load Center and Motor Control Centers Rehabilitation, Pompano Beach, FL: The scope of this project includes the design and engineering services during construction for the replacement of Load Centers 5 and 6 related Motor Control Centers (MCC), and replacement/rehabilitation of associated duct banks at the North Regional Wastewater Treatment Plan (NRWWTP). KEITH is providing surveying services for this project.

Fort Lauderdale-Hollywood International Airport (FLL) Expansion Program for Runway 10R-28L, Fort Lauderdale, FL: KEITH served as a subconsultant to ATKINS for this project. As the Civil Designer, Mr. Lazowick was responsible for the preliminary engineering and final design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000-foot runway expansion project. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project.

Fort Lauderdale-Hollywood International Airport (FLL) Northern and Ravenswood Drainage, Fort Lauderdale, FL: With the construction of the new runway and decommissioning of the Westerly runway, the County was interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this, the overall drainage system of the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. KEITH performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water run-off.

Broward County Water Reclaimed Water Plant Expansion, Broward County, FL: KEITH served as a subconsultant to Brown and Caldwell and was responsible for performing the pre-design, detailed design, bidding and permitting services, as well as engineering services during construction for the expansion of the existing reclaimed facility to increase its capacity.

Broward County Aviation Department, Fort Lauderdale, FL- Building Information Modeling (BIM) Standards - Version 1 / 2013: Mr. Lazowick assisted ACAI and Associates with the authorship and preparation of the civil engineer and GIS sections of the first time released and newly implemented BIM Standards for all county aviation projects.

Broward County Library - Pompano Beach Branch, Pompano Beach, FL: Mr. Lazowick was responsible for verifying contractor extraction and fill quantities associated with the environmental cleanup of nonhazardous waste materials, earthwork volumes and quantifications for this joint County-Municipal project.

Broward County Parks and Recreation Projects - District 2 Park Improvements, Broward County, FL: Mr. Lazowick provided construction engineering inspections for the final stages of this re-construction associated with the recreational facilities of two major County parks.

- **Quiet Waters Park** - Project included existing entrance and exit roadway to be reconstructed, construct toll booth and gate house, construct new 8' wide concrete pedestrian walkway from gate house, construct 1 story CBS maintenance building, and pool area improvements.
- **Tradewinds Park (South)** - Project included construction of new gatehouse, overhaul softball complex, new concessions building, overflow parking lot (1.5 acres), soccer field upgrades including new restroom and concession building.

City of Pompano Beach Miscellaneous Civil Engineering Services, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over 16 years on an as needed basis. All services of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.

Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL: Professional Consultant Services for Fort Lauderdale-Hollywood International and North Perry Airports, Utilities and Pavement Projects (Prime Consultant): KEITH is providing professional services for design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects, which include construction, rehabilitations and renovation activities. Some of the assigned projects include:

- 12" Westside Water Main Loop
- 16" Water Transmission Main North Perimeter Road
- FLL Runway 10R-28L Settle Monitor
- FLL 10L-28R Pavement Restoration
- FLL South Runway Drainage Mitigation
- FLL Short Term Traffic/Parking Improvements

Fort Lauderdale-Hollywood International Airport (FLL) South Runway 10R/28L Expansion Lead Design Team, Fort Lauderdale, FL: Mr. Lazowick was responsible for the design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000-foot runway expansion project. He assisted with the development of conceptual runway extension design alternatives and permitting of the 24" water and 16" sewer transmission utility main relocations. Responsibilities included the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification and the coordinating and overseeing designations and locations of all geotechnical borings associated with the design efforts.

Fort Lauderdale-Hollywood International Airport (FLL) Relocation of South Perimeter Rd (WP-306), Fort Lauderdale, FL: (subconsultant to Atkins) Mr. Lazowick served as a project engineer for the relocation of South Perimeter Rd. Due to the south runway expansion south Perimeter Road had to be relocated. Mr. Lazowick served as a project engineer for this relocation project. His role was to analyze the area, find the best path for the relocated road, and coordinate this location with all involved parties. Once the alignment was set, he designed the road in civil 3D, developed construction plans and specifications. Mr. Lazowick also performed CEI work to insure the design was followed.



JAMÉ WILLS, PE
Project Engineer

Mr. Wills is a professional engineer with five years of experience in design, permitting, and construction inspection. Mr. Wills' experience includes projects with Miami-Dade County Public Schools, University of Miami, City of Opa-Locka and several private entities. Duties include design, drainage calculations, plans preparation, shop drawing review, responding to contractor's request for information, coordinating with plan reviewers and addressing comments. Software experience includes Cascade 2001, ICPR, AutoCAD and Civil 3D.



Years of Experience
5

Education
B.S. Civil Engineering,
Florida International
University, 2017

Professional Registrations
Professional Engineer,
State of Florida, #85632
(2018)

RELEVANT PROJECT EXPERIENCE

Design-Build Services for Port of Miami Cruise Terminal F Upgrades (DB15-SEA-01); Miami-Dade County, FL: The project included providing civil engineering services for a new 33,000-square foot addition to the Port of Miami Cruise Terminal F, located at 1103 North Cruise Boulevard. The project includes demolition of an existing provisional building, site design layout, paving and grading, relocation of the existing drainage system, and the addition of water and wastewater services for the new building.

Tamarac Fire Station No. 78 Design/Build, Tamarac, FL: KEITH, as a subconsultant partner to West Architecture, provided civil engineering, permitting, traffic engineering, landscape architecture and construction services for the replacement of the existing Tamarac Fire Station 78 located at 4801 W Commercial Blvd in Tamarac, Florida. The 9,300-SF facility was constructed with LEED-certified products. As a Design/Build project, KEITH has been an active participant in determining costs and cost alternatives to keep overall costs within the anticipated budget.

1325 NW 78th Avenue Sanitary Deviation, Doral, FL: The project includes a warehouse being removed from septic system and the addition of a private pump station to a low-pressure force main along NW 78th Avenue into a public manhole 770' away from the site. The project included permitting via Miami-Dade County Department of Environmental Resource Management, Miami-Dade Water and Sewer Department and Florida Department of Health.

Miami-Dade Water and Sewer Department (M-DWASD) Upgrade of Pump Station 1002, Miami, FL: Project includes the rehabilitation of Lift Station 1002. This project scope includes design of proposed 8-foot diameter wet well, installation of two new submersible pumps, piping, and electrical upgrades. Mr. Wills served as the Civil Engineering Designer for this project.

Miami-Dade Water and Sewer Department (M-DWASD) Design-Build Services for the Installation of a 48-inch Diameter Transmission Main for "Area N", Miami, FL: Length: 6.7 miles. This project included Design-Build services for the installation of a 48-inch diameter transmission main to connect to the departments new 36-inch diameter water transmission main project at SW 152nd Street and SW 127th Avenue. Mr. Wills served as the Project Engineer for this project.

MDX Work Program 87410.030: Design-Build Services for SR 874 Ramp Connector to SW 128th Street (Contract No. RFP-15-02); Miami-Dade County, FL: This project entail utility work for Miami-Dade Water and Sewer Department. This project includes project management, roadway, drainage, water and sewer, traffic operations and structural design for the project. Project Role: Assistant Civil Engineering Designer/Drafter.



JAMÉ WILLS, PE

Page 2

Hadley Park Youth Center; Miami, FL: The project involved a new 23,000 square foot Youth Center building complete with a parking lot addition of 64 stalls, drainage structures with exfiltration trench, ADA path from the parking lot to the new building, outdoor fitness area, and other pedestrian paths. Design included demolition; paving, grading and drainage; signing and pavement marking; and a stormwater pollution prevention plan for the surrounding hard and soft scape including driveway entrances designed and permitted with the City of Miami Public Works Department. Project Role: Project Engineer

SR 826/I-75 Express Lanes Project - Design-Build (Contract E6105); Miami-Dade County, FL: The project includes the addition of approximately 13 miles of Express Lanes along the SR 826 (Palmetto Expressway) and I-75 (SR 93). This project includes new drainage, complex traffic control plans, new watermain installations, lighting, Intelligent Transportation Systems (ITS), signage, and landscape. As part of this project, 900-linear feet of 12-inch watermain are being installed in coordination with City of Hialeah.

Flagler Street Downtown Beautification - Civil Engineering Services, Miami, FL: The project involves full roadway reconstruction, sidewalk widening, and coordination with the landscape architect to propose trees in a corridor saturated by underground utilities designed and permitted for relocation. The provision of new hardscape patterns, the street lighting design and the drainage re-design of the drainage system to provide a 100-year service life operation. In addition, this project includes extensive utility coordination and the new design of the water distribution line and two sanitary sewer gravity lines. Extensive coordination with permitting authorities and field investigations to identify existing conditions and topographic surveys was also provided. Mr. Wills served as the Project Engineer.

City of Fort Lauderdale Traffic and Transportation Engineering Consultant Services Continuing Contract; Broward County, FL: This contract requires providing professional services related to a continuing contract for traffic and transportation engineering consultant services including, but not limited to: overseeing, planning, directing, coordinating, and implementing the planning, design, development, funding, construction and administration of complex City transportation related programs and projects involving work with City engineers and technical staff; and establishing funding plans for City transportation related projects and programs including identification of, research, and completion of the appropriate forms and applications.


KEITH
JAMES THIELE, PE

Project Manager III

Mr. James Thiele has over 30+ years of experience in performing Land Development Civil Engineering in South and Central Florida as well as central Pennsylvania. His experience includes all aspects of site planning, grading and drainage, sanitary sewer collection, water distribution system design and construction supervision services. His experience includes senior level project oversight and management of multiple stages of the design and development processes for residential, recreational, commercial, industrial and institutional developments. His ability to reduce complex technical language to readily understandable terms has afforded him numerous assignments representing governmental bodies for the firms he has worked for. Utilizing his vast experience, he has mentored scores of other Engineers that have gone on to successful noteworthy careers. All the projects Mr. Thiele has worked on required interaction and coordination with multiple governing agencies as well as other professional disciplines. Knowing the process from conception to project close-out affords him the ability to foresee issues that affect costs, schedule and quality of a project. He uses this knowledge and experience to quickly address and solve any problems that inevitably arise during a project and proactively seeks to remediate any issues for the client's best interest.

RELEVANT PROJECT EXPERIENCE

Port Everglades, Cruise Terminal 4 Expansion, Port Everglades, FL: As a sub-consultant to CH2M Hill, Mr. Thiele served as the Senior Engineering Project Manager for this expansion construction project including site civil engineering design, site plan, submittal and coordination of permits, bid/award evaluation, and Phase 2 services during construction. Design of the new cruise terminal expansion is being planned in such a manner as to limit disruption to the normal operation and function of the existing cruise terminal and surrounding Northport facilities. Design shall recognize that temporary rerouting of traffic may be necessary during construction.

BCWWS Water and Wastewater Services Continuing Contract, Broward County, FL: Broward County Water and Wastewater Services is implementing a new septic tank elimination program which consists of short sanitary sewer runs to serve small pockets of previously unserved properties. KEITH is providing engineering services for water distribution, wastewater collection and storm water collection systems. As the Prime consultant, KEITH is providing design and construction support services throughout the county related to the septic tank elimination program.

Broward County Water Reclaimed Water Plant Expansion, Broward County, FL: KEITH served as a subconsultant to Brown and Caldwell and was responsible for performing the pre-design, detailed design, bidding and permitting services, as well as engineering services during construction for the expansion of the existing reclaimed facility to increase its capacity.

Deerfield Beach & CRA Miscellaneous Engineering Services Contract, Deerfield Beach, FL: KEITH provides ongoing continuing serves providing as needed General Engineering and Surveying and Mapping services to the municipality on an as needed basis. Mr. Thiele works with the contract manager and oversees all aspects of the Engineering design. Some projects provided under these contracts include: Hillsboro Boulevard Beautification & Utility Improvement, Beach Dune Re-Nourishment Program, Ocean Way Improvement, The Cove Shopping Center Drainage & Beautification Improvement.

Hallandale Beach Fire Station No. 7 and Emergency Management Facility, Hallandale Beach, FL: The building program and design for the City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and include a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH is providing Civil Engineering, Landscape Architecture and SUE services.


Years of Experience
38

Education
B.S. Civil Engineering,
University of Miami,
1978

Professional Registrations
Professional Engineer,
State of Florida, #33256
(1983)

Professional Certifications
FLL Airport Employee
Emergency Training
(AEET) 2018

Intracoastal Park, Sunny Isles Beach, FL: KEITH provided civil engineering design services on this 2.37 acre passive park project consisting of two separate land parcels split by Poinciana Drive (City R-O-W), and bounded by Collins Avenue (S.R. A1A) to the east and the Intracoastal Waterway to the west. Mr. Thiele exercised overall project oversight for this new passive park.

Kester Marina/Sullivan Park, Deerfield Beach, FL: The project was proposed to be a joint development between the City-owned park and the adjacent commercial development. The proposed site design consists of a passive park and Marina that would include upland-cut and waterway dredging along the easterly property to accommodate marina. KEITH was the prime consultant responsible for coordinating the conceptual design layout for the Passive Park and Marine. The team was also responsible for overseeing the Environmental Findings Report that consisted of extensive research and data collection preparing detailed survey documents and pre-application meeting with all agencies having jurisdiction.

Lauderdale Marine Center, Fort Lauderdale, FL: An industrial marina redevelopment project located on the New River in the City of Fort Lauderdale. Project included land acquisitions, land use modifications, rezoning, site engineering and design, permitting, community liaison, platting, construction inspection services, environmental assessments and construction cost estimates on this 50-acre state-of-the-art marina complex. Offsite improvements include: roadway, utility and drainage improvements to resolve existing issues within the neighborhood roadways.

Parkland City Hall Building Department Wing Expansion, Parkland, FL: The proposed 3,000 SF expansion will be done on the Building Department wing of City Hall. The project will include the addition of approximately 1,500 SF of retention storage and 1,500 SF of Building Department space. The proposed retention space will also include access to the existing parking lot for intake of documents, as well as, moving paper out for disposal (shredding) purposes. KEITH is the Prime consultant serving as Owner's Rep and providing planning, surveying, civil engineering and subsurface utility engineering services. The engineering design includes approximately 160 LF of gravity sewer, 230 LF of water main and restoration of the parking lot.

City of Pompano Beach & CRA Miscellaneous Engineering Services Contract, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over twelve (12) years. Mr. Thiele serves as Senior Engineering Manager for many of the project assignments that have been in the redevelopment of roadways, parking facilities and utility infrastructure design. All service of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.

Pompano Air Park Master Drainage Plan: KEITH served as a subconsultant to Hanson Professional Services, Inc., and was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The Project consisted of field reconnaissance, surveys and review of all available City information and data affecting drainage and storm drainage infrastructure; preparation of analyses, design reports, feasibility studies and design alternative, recommendations, along with associated project cost estimates for related infrastructure improvements; update of the SWMPPP and recommendations for implementation, monitoring and reporting, meetings and presentations before stakeholder groups, Advisory Boards and elected officials; and preparation of required submittal packages for agency having jurisdiction.

Pompano Beach Fire Station No.103, Pompano Beach, FL: As a sub-consultant to Currie Sowards Aguila Architects, the firm provided civil engineering, permitting and surveying services for this new fire station. The facility is 2-stories at approximately 13,000 SF. Responsibilities included preparing preliminary design reports, feasibility analyses, site plans and design alternative recommendation, preparing surveys, design plans, technical specifications and cost estimates, preparation and processing of all required permit applications and providing construction engineering inspection services. It was certified LEED BD+C Gold.

Old Pompano Area, Water and Sewer Improvements for Future Development Restaurants, etc. (Flagler Ave NE 1st Street, Alleyway), Pompano Beach, FL: KEITH provided professional services associated with Design, Permitting, Bid Assistance, and Construction Observation for Certification services for proposed water and sanitary sewer improvements in the area near the northeast corner of Flagler Avenue and NE 1st Avenue including the existing alley behind the Bailey building within the City of Pompano Beach.



JOHN WEYMOUTH, PE
Construction Manager

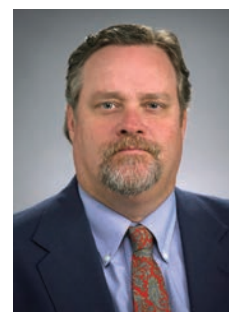
Mr. Jonathan Weymouth has 28 years of experience in the planning, design, permitting and construction of heavy transportation, utility as well as all types of civil and environmental engineering projects. His work involves the supervision of engineering and technical personnel engaged in the design and construction of public and private sector improvements. Past projects include major transportation infrastructure projects such as airports, bridges, highways and roadways. This is in addition to civil land development, recreational facilities and environmental mitigation projects. The design/permitting/construction experience that Mr. Weymouth brings to the team regarding key elements related to the Expansion of Runway 9L-27R Program at FLL is highly valuable. These elements include earthwork and embankments, stormwater management, concrete and asphalt pavements along with communication, potable water distribution and sanitary sewer collection systems. Additionally, he has extensive knowledge and effective experience coordinating with FEC, as well as with permitting and federal agencies such as FDOT and FAA. He is very familiar and fully qualified to implement and control the guidelines and requirements established by these agencies.

RELEVANT PROJECT EXPERIENCE

FLL's Airport Expansion Program III (AEP III) Terminal 4 (T4) Expansion: Mr. Weymouth serve as utility construction manager for the underground improvements associated with 1.6 billion dollar replacement of T4 - Concourse H and the airfield apron. Work included replacement, relocation and upgrade of the domestic water and new sanitary sewer systems serving the new T4 - Concourse G and the new transmission main around the perimeter of T4.

FLL's Terminal 2 & 3 Modernization Program: Mr. Weymouth serve as construction manager for the underground improvements designed by Keith that will be installed within the next year. Work will include limited domestic water distribution and sanitary sewer collection serving Concourses D, E & F. Mr. Weymouth will work closely, as he has in the past, to insure the construction follows BCWWS's details and standards

FLL's 9R/27L South Runway Expansion Project: As subconsultant to Atkins, Mr. Weymouth was the Resident Lead Design Representative (RLDR) for the design and construction of the new 8,000-foot South Runway, parallel Taxiway J and Crossfield Taxiways. This project required the coordination of multiple construction contracts along with other Broward County Aviation Department (BCAD) on-going airside construction projects, while maintaining an operational airfield. Duties and responsibilities included field observation during the construction, weekly observation reports to the Owner which addressed opinions of the construction conformance to the plans and specifications, facilitation of the reviews of shop drawings, Contractor's Requests for Information (RFI) and development of the Supplement Information (SI) to the Contractor. Also included was review of Contractor as-built plans to determine general adequacy in documenting field changes and assist each Engineer-of-Record with the final Record Drawings. The RLDR also reviewed Contractor pay requests, field changes, field directives, change orders and participated in conflict resolution, as well as reviewed daily inspection reports and test results. The three design-bid-build construction work packages totaled over \$325 million dollars of airfield new construction.



Years of Experience
28

Education
B.S. Architectural
Engineering, University
of Miami, 1990

*Professional
Registrations*
Professional Engineer,
State of Florida, #52802
(1998)

*Professional
Certifications*
10-Hour OSHA Safety
Certification

*Workzone Traffic
Control- Advance Level*

FLL's Concourse A and Apron Project: Design Project Manager for Broward County's design of 250,000-SF of terminal apron with hydrant fueling system and taxiways project. This project originally included a five-gate concourse totaling 121,000 SF with a 705-LF connector to Terminal 1 and associated utilities. The contract was a 6-year project with an estimated construction cost of \$45 million dollars.

10R/28L Runway Expansion Design Team: Resident Lead Design Representative assisting the Program manager and Construction Project Management Team with support on all design aspects during the construction of the 8,000-foot runway expansion project. Additional responsibilities include assisting with the preparation of the Construction Management Plan for FAA approval and the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps. He is responsible for coordination of all RFI, submittals, airfield construction packages, inspections, punch lists and final inspections for construction acceptance.

FLL's Task II - Roadway Landscaping and Aesthetic Improvement Project: Design and Construction Project Manager for Broward County's Design/Bid/Build Contract, a 10-year project with an estimated construction cost of \$5.5 million dollars. The project provides landscaping and aesthetic improvements for the US-1 Right-of-Way from I-595 to Griffin Road. In addition, it included tree canopy mitigation for all of the Airport Expansion Program (AEP) projects. The landscaping and aesthetic improvements covered approximately 90 acres of Florida Department of Transportation (FDOT) Right-of-Way which provide a unique gateway into the Airport.

FLL's Taxiway C and Westside Infrastructure Project: Key technical support engineer for the permitting, construction management and close-out for the new 4,500-foot Taxiway C and connectors and Westside major utilities improvement project. The infrastructure improvements included the new FAA duct bank and re-alignment of Perimeter Road.

FLL's Task III - Exit Roadway Project: Design Project Manager FLL for Broward County's Design-Build Contract, an 8-year project with an estimated construction cost of \$75 million dollars. The Exit Roadways project involves the design and construction of the third phase of the upper and lower level roadway system. This project connects the eastern end of the upper and lower level roadways in front of Terminal 4 and direct traffic east to the Task 2 roadways leaving the airport completed in 2003. The project is temporarily on hold while the airport evaluates its airfield needs and the impact to this roadway system.

FLL's Task II - Terminal Access Roadway Project: Design and Construction Project Manager for Broward County's Design-Build Contract, a 5-year project with a construction cost of \$83 million dollars. The project created a 270-degree segmental bridge interchange within the FDOT right-of-way entering and exiting the airport. The interchange was constructed of embanked roadway, segmental bridges over US-1 and the Florida East Coast Railroad and concluded with five ASSHTO beam structures on the Broward County Aviation Department property. The design and construction included an extensive Stormwater Management Master Plan that modified the existing stormwater permit and master dewatering permit.



DANIEL CHECCHIA

Vice President of Location Services

KEITH

Mr. Checchia has over 21 years of experience in transportation engineering, surveying, civil design and construction related fields, with expertise in Subsurface Utility Engineering (SUE), including Utility Coordination. His duties are to oversee the day-to-day operations of all Subsurface Utility Engineering and Coordination projects for our firm. Mr. Checchia is responsible for assisting clients with utility research, identification, data management and coordination. Besides having developed a strong rapport with local utilities and municipalities, his knowledge and experience in the Subsurface Utility Engineering process allows him to easily recognize utility conflicts during design and construction. He has been involved on a variety of projects such as design, design build and private sector work. Mr. Checchia’s understanding of the Quality Levels in the ASCE Guidelines enables him to manage a project from pre-design to post construction, negotiating to minimize utility impacts and suggesting and implementing cost effective timely resolutions for utility conflicts. Mr. Checchia is fully knowledgeable of the FDOT Utility Coordination process, with eight years of involvement working on multiple types of transportation projects.

RELEVANT PROJECT EXPERIENCE

Broward County Water Reclaimed Water Plant Expansion, Sunrise Florida: As a subconsultant to Brown and Caldwell, KEITH is performing a subsurface utility exploration at the proposed improvement sites within the plant and for proposed yard piping routing. Ground Penetrating Radar (GPR) will be used to designate, verify, and document location of existing underground facilities, including major piping, electrical conduits, and storm water facilities. Soft digs will also be conducted to verify the elevation of the designated underground facilities. KEITH will also assist with identifying potential conflicts and critical interconnects that require subsurface investigation.

Engineering Consultant Services for Highway Construction and Engineering Design, Broward County, FL: As a subconsultant to Atkins, KEITH provided surveying and subsurface utility engineering support for various county-wide transportation and general civil engineering projects. Typical services included design surveys, topographic surveys, water crossing surveys, 3D laser scanning, utility designation, locating and mapping to support project designs as well as post-construction services associated with new traffic signals, signal conversions, mast arm installations, evaluations of existing utilities, roadway widening, bridge rehabs, intersection improvements and school zone improvements among others.

FDOT District 6 Port of Miami Tunnel: The Port of Miami Tunnel Project consists generally of (i) the widening of the MacArthur Causeway Bridge, (ii) tunnel connections between Watson Island and Dodge Island (Port of Miami) and (iii) connections to the Miami roadway system. Mr. Checchia is the project coordinator of all utility related services for the Port of Miami Tunnel Project as a consultant to Bouygues Civil Works Florida. This project includes subsurface utility engineering (SUE) locations in the area of the proposed tunneling on both the Watson and Dodge Island sides of the tunnel and sweeping the ground penetrating radar for potential unknown subsurface utilities.

Ft. Lauderdale-Hollywood International Airport, Broward County: Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport such as:

- **Phase 1 Utility Atlas Update for South Runway Expansion of 9R/27L:** (Subconsultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars



Years of Experience
21

Education
AS of Applied Science
in Construction
Technology, Suffolk
County Community
College, 2008

Professional Affiliations
Founding Board of
Director-SUE Association

*Transportation &
Expressway Authority
Membership of Florida
(TEAM FL)*

*Florida Utility
Coordination Committee
(FUCC)*

Certifications
FDOT Maintenance of
Traffic

Issues Affecting SUE

*Risk Management and
Professional Liability in
SUE*

*Rebuilding America’s
Infrastructure*

*SAFE PIPES Act and
Related Legislation*

DANIEL CHECCHIA

Page 2

- 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Checchia was responsible for overseeing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.
- **Phase 2 Utility Atlas Update for South Runway Expansion of 9R/27L:** (Subconsultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Checchia was responsible for overseeing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.
 - **Terminal 4 Fuel Line Relocation Design:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for overseeing the designation and identification of existing utilities along the proposed fuel alignment. Designated utilities were marked and identified via vacuum excavation to confirm locations. Utilities were designated, located, mapped and labeled in accordance with the ASCE 38-02 guide lines.
 - **9R/27L Runway Expansion Lead Design Team:** (Subconsultant to Atkins) Mr. Checchia was responsible for designating and locating of existing utilities for the design of south runway. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
 - **Perimeter Road Water & Sewer Utility Improvements:** (Subconsultant to EAC Consulting) Mr. Checchia provided professional services associated with topography surveying and subsurface utility locations for the proposed upgrades of the potable water distribution and sanitary sewage transmission system along North Perimeter road (SW 34th Street), along South Perimeter Road at the FLL Airport.
 - **Eastside Water Main Improvements:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for supervising the designation and location of existing utilities for the eastside water main improvements along perimeter road. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
 - **Westside Water Main Improvements:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for supervising designation and location of existing utilities for the westside water main improvements. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
 - **Lift Station Upgrades:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for the identification of sanitary lines and force mains associated with the proposed lift station upgrades.
 - **Westside Cavity Study:** (Subconsultant to EAC Consulting) Mr. Checchia was responsible for supervising the designation of utilities to clear boring locations delineating the limits of a west cavity.
 - **North Perry Airport HWO Wayfinding Project:** (Subconsultant to EAC Consulting) Mr. Checchia provided professional services associated with field designation of exiting subsurface utilities. The firm shall designate all known tone able and non-tone able utilities within a 5' radius of the proposed sign structures (20) provided by the design team.
 - **Terminals 2 and 3:** (Subconsultant to Gresham Smith & Partners) Mr. Checchia supervised the designation, location and mapping of subsurface utilities for the proposed terminal upgrade.

Broward County Water Treatment Plant Virus Removal, Pompano Beach, FL: KEITH provided professional services to locate subsurface utilities at a portion of the Broward County Water Treatment Plant, located at NE 13th Way and 51st Street in Pompano Beach. Locations included water mains/services, sewer force mains, cable television, gas main/services, electrical, and telephone lines.

Miscellaneous Subsurface Utility Engineering (SUE) Contract for the School Board of Broward County, Broward County, FL: Miscellaneous Surveying and SUE Services to include Utility Horizontal Designation, Utility Location Services and Mapping Services on an as-needed basis. Mr. Checchia is tasked with providing the ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services.

North Regional Wastewater Treatment Plant (NRWWTP) Load Master Pump Station 454 Rehabilitation Design, Bid, Construction Management, Tamarac, FL: Broward County Water and Wastewater Services required improvements for Master Pump Station 454, located at 4201 West Commercial Blvd., are required to meet projected build out conditions of the station, to replace equipment that has reached the end of its useful life, and miscellaneous improvements aimed at decreasing operation and maintenance costs. Mr. Checchia was responsible for performing SUE services for this project.

**KEITH****MARK MITCHELL**

Senior Utility Coordinator

As a Subsurface Utility Engineering Senior Project Manager for KEITH's Utilities Division, Mr. Mark Mitchell is responsible for scheduling and supervising field crews, conducting utility field meetings, utility records research, conflict analysis and determining if additional utility investigation is needed for assigned projects in South Florida. He completed projects from beginning phases to final delivery; which included preparing and submitting fee proposals, coordinating with clients, being able to setup projects for field crews and conducting field visits when trouble shooting is required; download and process collected data; performed quality control and finalize for delivery while keeping clients informed on a daily basis. His experience also includes creating DTM's, Topo's, Tin Models, PNC's and Test Hole summary spread sheets. Mr. Mitchell provides a liaison between designers, utility agencies and owners on behalf of clients to provide utility coordination services, providing documentation, inter-coordination and maintenance of files of all activities for each utility agency.

Years of Experience
20**RELEVANT PROJECT EXPERIENCE**

60" Force Main, Miami-Dade Water and Sewer Department, Cutler Ridge, FL: Mr. Mitchell provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the precise horizontal and vertical position of all underground utilities within the proposed design project limits of a 60" force main from the South Miami Heights Water Treatment plant to the South District Wastewater Plant Project.

Port of Miami, Miami, FL: For a major development program of 640 acres, Mr. Mitchell designated (ASCE Quality Level B) all utilities within the project limits, which included recording the type, size and depth of the underground utilities and the creation of a digital survey database storing all of the information collected on the utility for future design and maintenance. He also provided control, stakeout and as-built surveys for the duration of the project. The Port had this project on a fast-track schedule in order to meet a compressed production schedule. Because of his experiences and the national pool of resources, they were able to deploy multiple crews to meet accelerated completion dates. Following up with the CEI team after the Port projects were completed, the major benefit realized from using subsurface utility engineering services were no delays or issues arising from unknown utilities.

Fort Lauderdale-Hollywood International Airport SUE Services, Broward County, FL: As the field supervisor, Mr. Mitchell was responsible for providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport such as Phase 1 Utility Atlas Update for South Runway Expansion, Phase 2 Utility Atlas for South Runway Expansion, Terminal 4 Fuel Line Relocation, 9R/27L Runway Expansion, Perimeter Road Water and Sewer Utility Improvements, Eastside Watermain Improvements, Westside Watermain Improvements, North Perry Airport HWO Wayfinding, Terminals 2 and 3, etc.

Ft. Lauderdale-Hollywood International Airport, Broward County, FL: As the field supervisor, Mr. Mitchell was responsible for providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport such as:

- Phase 1 Utility Atlas Update for South Runway Expansion of 9R/27L: (Sub-Consultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Mitchell was responsible for executing the designation, collection and depiction of all



MARK MITCHELL

Page 2

existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.

- Phase 2 Utility Atlas Update for South Runway Expansion of 9R/27L: (Sub-Consultant to RS&H) All work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys. Mr. Mitchell was responsible for executing the designation, collection and depiction of all existing utility infrastructure to create the FLL utility atlas. Utilities were designated, mapped and labeled in accordance with the ASCE 38-02 guide lines.
- Terminal 4 Fuel Line Relocation Design: (Sub-Consultant to EAC Consulting) Mr. Mitchell was responsible for executing the designation and identification of existing utilities along the proposed fuel alignment. Designated utilities were marked and identified via vacuum excavation to confirm locations. Utilities were designated, located, mapped and labeled in accordance with the ASCE 38-02 guidelines.
- 9R/27L Runway Expansion Lead Design Team: (Sub-Consultant to Atkins) Mr. Mitchell was responsible for executing designating and locating of existing utilities for the design of south runway. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
- Perimeter Road Water & Sewer Utility Improvements: (Sub-Consultant to EAC Consulting) Mr. Mitchell provided professional services associated with topography surveying and subsurface utility locations for the proposed upgrades of the potable water distribution and sanitary sewage transmission system along North Perimeter road (SW 34th Street), along South Perimeter Road at the FLL Airport.
- Eastside Watermain Improvements: (Sub-Consultant to EAC Consulting) Mr. Mitchell was responsible for executing the designation and location of existing utilities for the eastside Watermain improvements along perimeter road. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
- Westside Watermain Improvements: (Sub-Consultant to EAC Consulting) Mr. Mitchell was responsible for executing designation and location of existing utilities for the Westside Watermain improvements. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.
- North Perry Airport HWO Wayfinding Project: (Sub-Consultant to EAC Consulting) Mr. Mitchell provided professional services associated with field designation of exiting subsurface utilities. K&A shall designate all known tone able and non-tone able utilities within a 5' radius of the proposed sign structures (20) provided by the design team.
- Terminals 2 and 3: (Sub-Consultant to Gresham Smith & Partners) Mr. Mitchell was responsible for executing the designation, location and mapping of subsurface utilities for the proposed terminal upgrades.

Design/Build Replacement and Rehabilitation of 72-inch Sanitary Force Main, Miami-Dade County, FL: As a sub-consultant to the design/build team of WadeTrim and Ric-Man Construction, KEITH provided Surveying and Subsurface Utility Engineering services along 159th Street and NE 6th Avenue and 159th Street and North Miami Avenue. Subsurface utility designation was performed in the areas to identify utilities horizontally and select facilities that would be located (verified) through non-invasive methods. These locations were critical to the success of the design and construction effort.

Design Engineering Services for SR 874 (Don Shula Expressway) Roadway Modification / Miami-Dade Expressway Authority / Miami-Dade County, FL: Mr. Mitchell provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the vertical and horizontal position of underground utilities within project limits of the proposed expressway modification from Southwest 88th Street (Kendall Drive) to South of State Road 826 (Palmetto Expressway)/ State Road 874 Interchange.

FDOT District 4 Dixie Highway Flyover Design-Build, Broward County, FL: Originally this project was expected to follow the traditional Design, Bid, Build process, but was converted to a Design-Build. In order to meet the Department's aggressive schedule for advertisement, the bid package creation was placed on a fast track. Being part of the original design team providing Subsurface Utility Engineering and design survey services, Mr. Mitchell was contracted to provide additional Subsurface Utility Engineering and survey services required to help finalize the bid plans. It was his past experience and vast available resources that made it possible to meet the designer's needs and schedule and ultimately those of the Department.



KEITH

LEE POWERS, PSM

Director of Surveying & Mapping

Mr. Lee Powers has over 13 years of experience in land surveying and mapping in South Florida. He has worked with many local municipalities and government agencies to create and/or modernize their GIS Systems. He has also performed construction, right-of-way, control, ALTA, boundary, as-built and topographic (both acreage and coastal) surveys. He has extensive laser scanning experience with a particular emphasis on architectural modeling, historical preservation and infrastructure monitoring. He is well-versed in the scan-to-model workflow. He coordinates our BIM/VDC staff to ensure a quality and accurate model. Mr. Powers has extensive Project Management experience for large-scale projects and continuing service type contracts for both public and private sector clients. He is knowledgeable in the use of a wide range of state-of-the-art surveying equipment and associated computer technologies. He has extensive experience in field crew supervision, quality control and client relations.

RELEVANT PROJECT EXPERIENCE

Port Everglades Terminal 4 Expansions & Improvements, Ft. Lauderdale, FL: KEITH provided surveying, site planning, civil engineering and permitting services. The project involved the redesign and expansion of the Terminal 4 building and associated parking area. The new design allows for increased passenger flow, better circulation for patrons and new buss pull-off areas for easy unloading. The civil engineering design included new fire protection and new drainage infrastructure with swaled detention area and exfiltration trench to provide water quality measures prior to discharge in the intracoastal waterways.

Port of Palm Beach Slip #3, Riviera Beach, FL: This project was intended to widen and lengthen Slip #3 to allow two ships to use the slip simultaneously. It also increased the dock-side work and storage areas, updating/modernizing utilities. The goal was to increase the capacity of the Port of Palm Beach. KEITH conducted a full topographic survey of the upland areas of the project limits. The survey included locating all man-made features, elevations observed at intervals no greater than 50 feet, grade changes, storm and sanitary structure details and establishing project control in support of the subsurface utility engineering and underwater efforts. KEITH also set aerial targets to provide horizontal control for aerial imagery.

Broward County Segment II Shore Protection Project, Broward County, FL: The purpose of this project was to work with Broward County to document basic building and infrastructure information in support of the planning for the Broward County Segment II Shore Protection Project, a project intended to provide sand nourishment along portions of the Pompano Beach, Lauderdale-by-the-Sea, and Fort Lauderdale shorelines. Specifically, KEITH was responsible for documenting the lower level elevations of all buildings, seawalls, pools, tennis courts, walkways, and other attendant infrastructure on all properties within approximately 1,000 feet of the beach along these areas. This information was used by the County and the US Army Corps of Engineers in support of the project planning and feasibility studies.

Broward County Water & Wastewater Services (WWS) GPS/GIS Project, Broward County, FL: The goal of this 18-month project was to obtain sub-meter accurate NAD83 HARN state plane coordinates for the WWS' surface visible features and to populate the WWS GIS shapefiles with the pertinent utility survey information. Mr. Powers served as the Project Surveyor for this utility location project. KEITH utilized WWS' existing GIS database to determine where the 17,000 existing utilities should be located. Survey crews were then tasked with locating these utilities and any other WWS utility in the UAZ, with survey-grade GPS (Geographic Positioning System) receivers. These surveyed positions were then used to update WWS' GIS database. The end result is a GIS database that contains the location of every WWS utility within a tenth of a foot of their "real-world" location.



Years of Experience
13

Education
B.S. Land Surveying &
Geomatics Engineering,
Purdue University, West
Lafayette, Indiana 2005

Professional Registrations
Registered Professional
Surveyor & Mapper,
State of Florida, #6805
(2010)

Professional Affiliations
BIM Smart Foundation
Member

Florida Society of Professional Surveyors & Mappers
American Resort

Certifications
Transportation Worker
Identification Credential
(TWIC)

FDOT Maintenance of Traffic

LEE POWERS, PSM

Page 2

City of Parkland GIS Services, Parkland, FL: KEITH is responsible for the maintenance of the City of Parkland's GIS data and maps. Mr. Powers serves as the GIS Specialist for these ongoing services. GIS tasks include updating the City's streetmap, land use, zoning and commission district maps and databases. The project also includes developing custom maps to meet the individual needs of the city.

City of Pompano Beach Northwest CRA Boundary & Topographic Surveys, Pompano Beach, FL: As the Project Surveyor, Mr. Powers completed Boundary and Topographic Surveys on ten parcels for the Pompano Beach CRA. Due to a lack of field evidence and historical documents, an extensive search for further evidence was conducted in the surrounding areas. After combining this additional evidence with the detailed title review, Mr. Powers was able to clarify what had been historically ambiguous boundaries in this area. These surveys also included the location of all trees and above & below ground utilities.

FDOT District 4 Districtwide Survey Contract, Broward, Indian River, Martin, Palm Beach, and St. Lucie County, FL: Mr. Powers served as a Project Surveyor for this General Services Districtwide Contract. Typical project types included right-of-way recovery, stakeout of existing right-of-way, control surveys, right-of-way mapping, boundary surveys, topographic surveys, Digital Terrain Modeling and setting of aerial targets in support of aerial photogrammetry. This district-wide had over 81 task work orders.

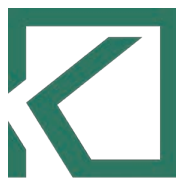
FDOT District 4 SR A1A in Fort Lauderdale, Broward County, FL: Mr. Powers served as the project surveyor for this Control, Design, Right-of-Way and Construction Surveying project. KEITH recovered the baseline of survey from the 17th Street Causeway to NE 20th Street. Also included in this project was a Topographic Survey of the beach from Sunrise to NE 18th Street. The team was also required to perform the necessary utility locates. This Topographic Survey was an emergency project due to the beach erosion and collapse of SR A1A. KEITH was able to immediately place four survey crews on the project, working 7 days a week, to be able to complete the survey portion of the DEP application.

Hillsboro Boulevard Inlet Park and Seawall, Pompano Beach, FL: Mr. Powers served as the Project Surveyor for this project consisting of replacement of the existing seawall for the park adjacent to the Hillsboro Inlet in Pompano Beach, Florida. The project required hydrographic and topographic survey of the inlet cross-section and shoreline to facilitate the design, permitting, and replacement of the existing seawall as well as as-built surveys of existing boat slips. Because much of the project was located seaward of the Coastal Construction Control Line, the surveys were performed in accordance with the requirements of the Florida Department of Environmental Protection-Division of Beaches and Shores as set forth in Section 62B-33.0081.

Pompano Beach Design/Build Pier Beach Parking Garage, Pompano Beach, FL: The new Pompano Beach Pier/Beach Parking Garage is located at the southeast corner of North Ocean Blvd. (S.R A1A) and NE 3rd Street on a 3.5-acre site. The new parking garage includes five stories, 625 parking spaces, speed ramp to facilitate access to higher levels of the garage and some retail space on the ground level fronting NE 3rd Street and the new Pier Street. As part of the design-build team, led by Kaufman Lynn Construction, KEITH (KEITH) was responsible for Planning, Surveying, Utility Coordination/Investigation, Civil Engineering, Landscape Design, Permitting and Construction Inspection of the project.

Pompano Beach Fire Station #24 Design/Build, Pompano Beach, FL: KEITH, as a subconsultant partner to Currie Sowards Aguila Architects and West Construction, is currently providing engineering design and permitting, project coordination, surveying, landscape architecture and construction services for the replacement of the existing Pompano Beach Fire Station 24 located at 2001 NE 10th Street. The City of Pompano Beach was so pleased with the work done to Fire Station 11 and 103, that they decided to replace the existing Fire Station 24 with a new two story 4 bay apparatus fire station as the prototype design for the new Fire Station 24 design build. The existing fire station will be demolished and prepared for the construction of the new station. New utilities and services along with new landscaping, 20 parking spaces and 3 visitor parking spaces, offices, training room and an exercise room on the first floor. A firefighter living area, dormitories, kitchen and day room will be located on the second floor.

Pompano Beach GIS Mapping Services Pilot Project, Pompano Beach, FL: KEITH was tasked to locate all water meters and valves, sanitary manholes and cleanouts, and storm drainage inlet structures and manholes with at least sub-meter grade GPS (Global Positioning System). The general limits of the project are from McNab Road (SE 15th Street) to the southerly edge of water of Lettuce Lake (just North of SE 8th Street) and from the easterly right-of-way of Federal Highway to the westerly edge of water of the Intracoastal Waterway. Mr. Powers served as Project Manager for this GIS project with over 1,550 independent data points. This data was used as a pilot program to modernize the City's current GIS system that was based on old, inaccurate as-built information.



KEITH

MICHAEL MOSSEY, PSM

Senior Surveyor & Mapper

Mr. Mossey has over 40 years of experience in land surveying and mapping in South Florida. He has extensive senior project management experience for large-scale projects and continuing service, on-call type contracts for both public and private sector clients. He is a highly talented Quality Surveyor with a successful track record in budget estimation, valuation of items and completing projects on time. Mr. Mossey's experience includes a wide range of projects incorporating GIS deliverables for various agencies including Broward County, the Federal Aviation Administration (FAA) and municipalities.



Years of Experience
40

Education
Maryville College,
Maryville, Tennessee

Professional Registrations
State of Florida
Professional Surveyor &
Mapper #5660

Professional Affiliations
Florida Society of
Professional
Surveyors & Mappers

*Secretary, Broward
Chapter FSMS,
1999-2000 and
2000-2001*

RELEVANT PROJECT EXPERIENCE

Broward County Parks and Recreation Department General Surveying Consultant Services Contract, Broward County, FL: As part Broward County's \$400 Million Bond Program, KEITH provided general surveying and mapping services to the County's Park and Recreation Department. As Survey Project Manager, Mr. Mossey prepared Boundary and Topographic surveys for multiple parks including CM Smith Park Aquatics Center, Central Broward Regional Park, Tradewinds Park, Quiet Waters Park and Driftwood.

Broward County Water Reclaimed Water Plant Expansion, Broward County, FL: As a subconsultant to Brown and Caldwell, KEITH was tasked with surveying activities to supplement the existing topographic survey provided by Broward County and verifying the elevation of select hydraulic process structures such as top of weir/wall/floor and overflow elements of existing structures.

Broward County Water and Wastewater Services Sanitary Improvements Survey, Hillsboro Beach, FL: As a Sub-Consultant to Brown and Caldwell, KEITH provided surveying and mapping services for the Sanitary Sewer Improvement Project along Hillsboro Mile (A-1-A). The scope included preparing a Topographic/Design survey from right-of-way to right-of-way along Hillsboro Mile starting at the inlet bridge and extending north to S.E. 10th Street. The survey included the acquisition and mapping of the above ground improvements and utilities within the survey corridor approximately 16,000 linear feet.

Broward County District 1 Water Treatment Plant Expansion, Broward County, FL: Mr. Mossey, served as the project surveyor as a sub-consultant to MWH Americas, Inc., and provided surveying services associated with expansion and development new well sites for the Broward County Water Treatment Plant No 1A Property. KEITH provided Topographic surveys for the 2 Floridian well sites and pipeline alignment routes to the plant, a topographic survey for the injection well.

City of Deerfield Beach and CRA Miscellaneous Surveying and Mapping, Deerfield Beach, FL: KEITH is currently provides ongoing continuing services providing on-call general surveying and mapping services to the municipality and CRA on an as needed basis for all transportation and municipal projects. Mr. Mossey serves as Senior Project Surveyor.

FDOT District 4 Districtwide Survey Services, Broward County, FL: KEITH provided surveying and mapping, and engineering services including water, sewer, paving grading & drainage design, permitting and construction inspection for this new \$4 million community facility in the City of Dania Beach.

General Engineering/Surveying Services Contract, Pompano Beach, FL: Through our continuing services contract, KEITH has provided surveying and mapping services for multiple parks and public spaces within the City. As Survey Project Manager Mr. Mossey prepared Boundary and

Engineering Inspired Design.

Topographic surveys, as well as sketches of description for Pompano Community Park, Highlands Park, Alsdorf Park, Rustic Bridge Park, Founders Park and Lovely Park.

City of Fort Lauderdale Continuing Surveying and Mapping Services, Fort Lauderdale, FL: KEITH provided general surveying and mapping services to the municipality on an as needed basis through 2013. Some projects include:

- NE 27th Street ADA Parking Lot Topographic Design Surveys
- ADA Compliance Design Surveys for Eisenhower Blvd and SE 17th Street, Las Olas Circle, Birch Road, SE 4th Street, SE 16th Avenue and SE 15th Avenue, and NW 4th Andrews Avenue to NW 1st Avenue
- Peele Dixie Water Treatment Plant Engineering Design Surveys, Boundary and Topographic Surveys
- SE 15th Street Boat Ramp Boundary Surveys
- Hortt Elementary School ALTA/ACSM Land Title Survey
- Mills Pond Park Boundary Survey
- Croissant Park Athletic Field Staking and Final As-Built Sketch for the City's records
- River Oaks (Lauderdale Marine Center) Specific Purpose Survey & Sketch and Design
- South Middle River Park Boundary Survey
- Fort Lauderdale Executive Airport (FXE) Taxiway Golf Relocation FAA Survey Submittal Assistance
- 17th Street Causeway Service Road Utility Designation and Mapping
- River Oaks Preserve Topographic Survey

Lauderdale Marine Center, Fort Lauderdale, FL: Mr. Mossey served as Project Surveyor for this industrial marina redevelopment project located on the New River in the City of Fort Lauderdale. Project included surveying, land acquisitions, land use modifications, rezoning, site engineering and design, permitting, community liaison, platting, construction inspection services, environmental assessments and construction cost estimates on this 50-acre state-of-the-art marina complex. With diligent project management and aggressive construction administrative services the 34-acre Phase 1 Marina was completed on time and within budget in 2006. The project has now completed the 18-acre Phase 2 Boat Yard and Marina expansion of similar uses as Phase 1. Offsite improvements include: roadway, utility and drainage improvements to resolve existing issues within the neighborhood roadways.

Pompano Beach Oceanside Fire Station #11, Pompano Beach, FL: KEITH is working with a team of consultants with the primary responsibility of surveying and platting to construct a new barrier island Oceanside Fire Station (Station # 11) in Pompano Beach. The proposed site required a land use plan amendment, rezoning, platting and site plan approval before the station could be permitted. KEITH coordinated with City staff and other consultants to properly time the plat approval in conjunction with the plan amendment as well as coordinating with the architect and FDOT for the plat opening along A-1-A for the fire station driveway. As Survey Project Manager, Mr. Mossey prepared Boundary and Topographic Design Survey including tree locations and identifications for this new public facility station on A-1-A including offsite improvements. Services included easement vacations plat preparation, processing and recordation.

Pompano Beach GIS Mapping Services Pilot Project, Pompano Beach, FL: KEITH was tasked to locate all water meters and valves, sanitary manholes and cleanouts, and storm drainage inlet structures and manholes with at least sub-meter grade GPS (Global Positioning System). The general limits of the project are from McNab Road (SE 15th Street) to the southerly edge of water of Lettuce Lake (just North of SE 8th Street) and from the easterly right-of-way of Federal Highway to the westerly edge of water of the Intracoastal Waterway. Mr. Mossey served as Senior Project Surveyor for this GIS project and is currently working in this geographic area and progress up to 1,550 data points. Once completed, KEITH will edit the files by moving the existing utilities, including any pipes, services or laterals that connect to the structure, to the true, GPS-verified location. The attribute data attached to each utility will remain unchanged.

South Florida Water Management District Hillsboro Canal, Palm Beach and Broward County, FL: Mr. Mossey acts as the Lead Client Service Manager for the South Florida Water Management District Bathymetric and Topographic surveys of the Hillsboro Canal located between the Palm Beach and Broward County line, from the Arthur R Marshall Loxahatchee Wildlife Refuge to the Intracoastal Waterway as part of the Comprehensive Everglades Restoration Program (CERP). The work includes locating the existing right-of-ways, subdivision lines, creating a base-map and obtaining horizontal and vertical topographic information from right-of-way to right-of-way, including cross-sectional data within the canal. KEITH is currently performing these services as a sub-consultant to Calvin-Giordano & Associates, Inc.



KEITH

PAUL WEINBERG, PLA, ASLA

Vice President of Planning and Landscape Architecture

Mr. Paul Weinberg is a multi-talented designer and team leader who has been based in South Florida since 2000. During this time, he has worked with a variety of significant public and private sector projects including urban parks, hotels, campuses, plazas, mixed-use development, entertainment districts, streetscapes, waterfront and residential projects that provide meaning and purpose to the community. He has a unique understanding of how to create immersive, authentic and memorable spaces that create place identity to bring vitality to each district. He is committed to a team-based approach that delivers creative, thought-provoking solutions tailored to the distinct character of each project. This collaboration starts with the multi-disciplinary approach at KEITH and builds to include other partners, consultants, and co-collaborators.

RELEVANT PROJECT EXPERIENCE

Atlantic Boulevard Streetscape Improvements, Margate, FL: The CRA requested the KEITH Team develop a branded approach to several of the city’s ROW and streetscapes. The request includes multiple miles of streetscape, medians, walls, walkways, landscape, lighting, signage and a signature fountain feature. The team worked to create a brand or identity that can be utilized throughout the City in these public realm areas. The signature element for this streetscape initiative is the addition of a roundabout and fountain feature. The CRA requested that a theme of a child fishing along the edge of the canal be utilized for inspiration. KEITH had to work around existing infrastructure items and yet was able to develop a creative approach for the fountain. The result was a combination of water, sculpture, landscape and hardscape to make a statement for the City and CRA of Margate.

City of Fort Lauderdale Tunnel Top Park, Fort Lauderdale, FL: The Riverwalk and Downtown Development Authority of Fort Lauderdale have been studying a number of visionary projects to connect and active the downtown riverfront district corridor. Mr. Weinberg lead the team to the visioning for several key projects including Tunnel Top Park. The project is set to create a stage within the public realm that links the surrounding context together. The Tunnel Top Park will be a mini Klyde Warren Park or High Line for the City and bridge the gap between Laura Ward Plaza, the riverfront and the Las Olas Corridor. Currently the project is being coordinated through the FDOT and is seeking to be implemented through a multi-agency effort.

DC Alexander Park Improvements, Fort Lauderdale, FL: The DC Alexander Park is viewed as the “front yard” of the Fort Lauderdale Aquatic Center and occupies a prominent location on Fort Lauderdale Beach. Mr. Weinberg is leading the design, planning and permitting of this improvement project in conjunction with the City’s CRA. He is managing a multi-disciplinary team to create a legacy project that will serve as an iconic, memorable place.

Destin CRA, Destin, FL: Mr. Weinberg served as Principal-In-Charge for this waterfront civic environment project, which provides a window and gateway into the harbor from Destin’s main drive. The park design provides a barrier-free access point to the harbor and includes an interactive water feature, iconic lighting and art elements, and an elevated stage and overlook.

Fast Forward Fort Lauderdale Design and Construction Manual, Fort Lauderdale, FL: KEITH is working with renowned architecture firm Brooks + Scarpa to develop a design and construction manual for a sustainable and resilient community and cohesive public realm that could potentially impact every facet of infrastructure and design within the city. Mr. Weinberg is responsible for the planning and landscape architecture elements of the manual.



Years of Experience
18

Education
B.S. Landscape
Architecture, Michigan
State University, 2000

*Professional
Registrations*
Registered Landscape
Architect, State of
Florida, #LA6666804
(2005)

*Council of Landscape
Architecture Registration
Boards (CLARB Certified)*

Professional Affiliations
Urban Land Institute,
Member

*American Society of
Landscape Architects
(ASLA), Member*

*American Resort
Development
Association (ARDA),
Member*

*Riverwalk Trust, Board
Member*

*MSU Landscape
Architecture Advisory
Board, Board Member*

PAUL WEINBERG, PLA, ASLA

Page 2

Fort Lauderdale Beach Streetscape Master Plan, Fort Lauderdale, FL: Mr. Weinberg led a team of designers to develop complete street guidelines for the Beach CRA district including site furniture, pedestrian walkways, transit stops, water taxi stops, signage and roadway cross sections.

Fort Lauderdale Riverwalk Corridor Study, Fort Lauderdale, FL: Mr. Weinberg served as Principal-In-Charge for the Huizenga Plaza redevelopment in Fort Lauderdale. The project is a catalyst to new development in Fort Lauderdale's civic core and will provide citizens with an attractive public environment for daily use and special events, including the addition of an iconic tunnel top park.

Fort Lauderdale-Hollywood International Airport Terminal 1 Modernization Concourse A, Fort Lauderdale, FL: KEITH as a subconsultant partner to CORGAN Aviation, provided Civil Engineering, Landscape Architecture, Survey and Subsurface Utility Engineering (SUE) services for the modernization of Terminal 1, including centralized TSA checkpoint alterations, a new five gate Concourse A addition with a Federal Inspection Services (FIS) facility and other enabling projects. KEITH designed Landscape and Irrigation Plans for the multi-story ellipse and the 'Meet and Greet' area of the terminal. The landscape consists of Florida-friendly shrub beds with lush foliage and colorful accent plantings with a mix of slender Montgomery Palms between stately Royal Palms that enhance this eye-catching structure. Irrigation plans were designed to provide coverage for the landscape beds and turf areas surrounding the new terminal grounds. Additionally, KEITH provided bid assistance and responses to RFI's related to landscape and installation/construction observation service for quality and quantity control of plant species and design intent, as specified in plans.

Hallandale Fire Station No. 7 and EOC Headquarters, Hallandale Beach, FL: The building program and design for the City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and include a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH is providing Civil Engineering, Landscape Architecture and SUE services.

Las Olas Boulevard Corridor Study, Fort Lauderdale, FL: Mr. Weinberg was responsible for managing a concept study for the Las Olas Corridor, reviewing lane configurations, pedestrian mobility and overall beautification improvements along this stretch of Fort Lauderdale.

Parkland Roundabout Conceptual Design, Parkland, FL: The KEITH Team developed a branding package for the City of Parkland with a signature element intended of being a large roundabout feature. The City requested a water feature and KEITH took the opportunity to develop the idea of understated country elegance to guide the vision for Parkland. The result of the initial study was the concept of combing the city's rich equestrian history with the old oak hammocks. The design aims to create a memorable statement at this key location in the city that will be easily recognizable as "Parkland". The intent is to develop additional elements to fit within the City ROW that will continue to further develop the image and brand initiated with this effort.

Plantation Fire Station No. 1, Plantation, FL: KEITH was responsible for the development of the site plan and is currently coordinating with the design architect to develop the Landscape and Civil Engineering for the project. The intention is to utilize xeriscape and low maintenance materials that will provide aesthetics, as well as include CPTED principles for safety.

Pompano Beach CRA District Improvements, Pompano Beach, FL: Mr. Weinberg was integral to the planning, urban design and landscape architecture improvements for this redevelopment project that has created a vibrant, beach-side promenade, encouraging citizens to enjoy new recreational and social opportunities. This project has generated millions of dollars of private development based on the improvements made to the increase the aesthetic and function of the public realm.





moffatt & nichol

Ken Parkinson

Principal Port Planner

EDUCATION

Bachelor of Urban Planning,
University of Cincinnati, 1984

AFFILIATIONS

American Institute of
Certified Planners

American Planning
Association

American Association of Port
Authorities

EXPERIENCE

General

Mr. Parkinson is a transportation, logistics, and port specialist with more than 34 years of experience with an emphasis on waterways, port terminals, harbor project developments, and intermodal and capital improvement programs. His experience with projects at Port Everglades spans over a 25-year period and include cruise, container, petroleum, bulk and intermodal transportation connectivity.

Prior to joining Moffatt & Nichol, Ken held lead management positions, with the goal of expanding practices worldwide for major infrastructure companies. He has guided and managed staff resources that include economists, financial specialists, planners, architects, environmentalists, engineers, construction managers, and operation specialists. These activities have included extensive relationships with port authorities, port operators, shipping lines, state and federal authorities, investors, investment banks, multi-lateral banks, infrastructure funds, marine contractors, and legal support teams.

His experience has involved projects along US coasts and inland waterways, as well as work in more than 20 countries.

REPRESENTATIVE PROJECT EXPERIENCE

Experience – Prior to Moffatt & Nichol

Port Everglades Department of Broward County, Port Everglades 2014 Master/Vision Plan Update. Principal planner/project advisor for preparation of an updated master plan to guide port development over the next 20 years. Working closely with Port staff, efforts include updating market forecast, performing detailed conceptual planning/design studies, conducting visioning exercises and public outreach, completing facility capacity studies for the terminals and berth areas, identifying methods to increase terminal efficiencies, evaluating financial development options, and conducting phasing and capital improvement plans.

Northport Petroleum Terminal, Port Everglades Master Vision Plan Update 2014. Principal project planner responsible for preparation of an updated master vision plan to guide port development at Port Everglades over the next 20 years. Assessed various alternatives for berths, product distribution, and landside/marine operations for the Northport petroleum Terminal. Alternatives are based on a development program to be constructed over three project phases to provide for three redundant berths handling the simultaneous berthing of three post-panamax vessels. Critical to the success of this project is the maintenance of full landside and marine operations during construction. Project will provide capacity for 20-year market forecast at Port Everglades, which serves as the major import petroleum terminal for South Florida. Project cost of the marine terminal improvements is in the magnitude of \$200 million. Additional project improvements are being evaluated for the distribution of product to various petroleum operators and storage facilities.

Port Everglades Master/Vision Plan Update. Principal planner/project advisor for preparation of an updated master plan to guide port development over the next 20 years. Working closely with Port staff, efforts included updating market forecast,



Ken Parkinson
Senior Ports Planner

performing detailed conceptual planning/design studies, conducting visioning exercises and public outreach, completing facility capacity studies for terminals and berth areas, identifying methods to increase terminal efficiencies, evaluating financial development options, and conducting phasing and capital improvement plans. Project elements include container terminals, Ro-Ro terminals, intermodal container transfer facility, liquid and dry bulk terminals, cruise terminals, and internal port parking and traffic circulation.

PortMiami LNG Bunkering Study, Miami, Florida. Project manager for review of possible liquified natural gas (LNG) bunkering options at PortMiami. Evaluated the feasibility of the near-term LNG supply side, on- or near-site storage options, and in-vessel bunkering options. Ranked each option in terms of legal, siting, and financial hurdles and developed a short list of concepts worthy of further study in Phase 2. Effort was in response to LNG or dual fuel cruise ships scheduled to be based at PortMiami in 2019.

Florida Department of Transportation, Office of Logistics, Freight and Passenger Operations, Florida Cruise Industry Provisioning Study. Supported project team for research and development of a comprehensive study on provisioning activities at Florida's six cruise ports. Activities include planning, data collection, cruise industry contributions, issues and obstacles, governmental affairs, and presentation of findings.

Port Manatee, Master Plan Update, Florida. Project advisor to update the 2009 Port Manatee Master Plan. In conjunction with the preparation of the Five-Year Capital Improvement Plan, a Ten-Year Maintenance and Expansion Plan was prepared that defined infrastructure rehabilitation needs in addition to new infrastructure projects.

Mississippi State Port Authority – Yilport Holding Inc, Mississippi. Project advisor for research to assess Yilport Holding's suitability as a developer and operator of marine terminal facilities at the Port of Gulfport. Strategic assessment of Yilport presented information on marine ports and terminals and related logistic and intermodal facilities it operates, e.g., container terminals, bulk terminals, general cargo terminals, logistics parks, warehousing, intermodal rail facilities, and technology used to support efficient cargo movements. Presented industry relevant information addressing port and terminal operations held by Yilport within their Global Yildirim Group's portfolio, which includes 20 marine ports and terminals in eight countries.

Shoreham Deep Water Port, New York State Department of Transportation. Project manager for the feasibility study for a Shoreham Deep Water Port (SDWP) was undertaken to determine if truck trips and traffic congestion could be reduced on Long Island and metro New York roadways. Most goods delivered to Long Island currently arrive by truck. The creation of a deep-water port could provide Long Island, New York, with a cost-efficient, environmentally friendly means of transporting goods to and from Long Island without traveling through New York City. Such a facility would provide a place where cargo could arrive and depart by ship and reduce truck traffic in the New York City area and could spawn new direct and indirect business growth that would build upon existing industries and initiatives in the region. The boundaries of the proposed SDWP project area identified by New York State Department of Transportation for the feasibility study include the decommissioned Shoreham nuclear power plant, Long Island Power Authority property, and National Grid land parcels located on Long Island Sound in eastern Suffolk County, New York, approximately 75 miles from Manhattan.



moffatt & nichol

Tim Blankenship, PE

Senior Engineer

EDUCATION

ME, Coastal Engineering, Old Dominion University, Virginia, 1994

BS, Civil Engineering, Old Dominion University, Virginia, 1992

REGISTRATIONS**Professional Engineer:**

Florida, 55910, 2000

Virginia, 0402032214, 1999

EXPERIENCE

Mr. Blankenship has more than 25 years of experience with waterfront/marina, port infrastructure, and coastal engineering consulting projects throughout the US, Caribbean, and Central America. He has participated in the field investigations, planning, regulatory permit processing, engineering design, and construction management of all phases of marine works implementation. He has demonstrated project experience with projects at (or in the vicinity of) PortMiami as well as similar coastal/waterfront projects throughout Miami-Dade County. Mr. Blankenship has managed contracts for many local municipalities as well as for several departments within Miami-Dade County for the past 18 years. He has served as engineer-of-record for more than 100 coastal/waterfront/port projects in Miami-Dade County.

REPRESENTATIVE PROJECT EXPERIENCE

PortMiami Marina Feasibility, Miami-Dade County, Florida. Project manager for a marina planning project as part of a 2035 master plan for the southwest area of the port. The plan will accommodate vessels 50 to 400 feet long. Evaluated the conceptual marina layouts relative to function, financial performance, environmental permitting feasibility, and capital cost. Reviewed federal, state, and local environmental permitting.

RMK Merrill Stevens North Yard Redevelopment, Miami, Florida. Project principal for site planning, engineering design, and environmental permitting for the shipyard redevelopment that includes basin filling, bulkheads, and installation of shiplift with capacity for vessels up to 230 feet long. Design of upland pile-supported transfer berths, stormwater management system, hull blasting runoff treatment system, and site utilities.

PortMiami Wharves I-VII Bulkhead Replacement, Miami-Dade County, Florida. Project engineer for environmental permitting, design, and environmental permitting consulting relative to determining suitable mitigation options for bulkhead replacement marine resource impact areas. Conducted in-water biological assessments of the impact site (bulkhead to be replaced) and designed a 1.655-acre mitigation site at a County-designated artificial reef deployment site. Prepared construction plans and specifications and assisted PortMiami with construction bidding and construction management.

PortMiami Cruise Terminal H Dredging, Miami-Dade County, Florida. Project engineer who managed geotechnical investigations and hydrographic surveys to evaluate dredging needs for larger vessel to be berthed at Terminal H. Designed dredging and initiated environmental permitting process through Florida Department of Environmental Protection, US Army Corps of Engineers, and Miami-Dade DERM.

PortMiami North Bulkhead, Miami-Dade County, Florida. Project principal who evaluated five areas (with engineer-divers) of sheet pile bulkhead along 5,800 lf of cruise berths. Designed underwater repairs including welding of plates, placement of grout bags, and filling of voids with pumped ground. Assisted PortMiami with bidding process and provided construction administration.

Labadee Cruise Pier Evaluation, Haiti. Project manager for the above/below water evaluation of the cruise ship pier operated by Royal Caribbean at the Labadee cruise ship destination. Pier consisted of steel pipe piles, concrete caps, and decks. Engineer-



Tim Blankenship, PE
Coastal/Civil Engineer

divers evaluated the 1,600-foot-long pier, and a comprehensive inspection report was prepared documenting the assessment along with repair and maintenance recommendations.

Fisher Island Ferry Terminals, Miami-Dade County, Florida. Project principal for planning reconfiguration, and modifications to Terminal Island facility to include new bridge seat, steel bridge ramp, and associated marine works with dolphins and fender system. Performed peer review of Parcel 8 Ferry Terminal and supporting terminal facility on Terminal Island.

Hillsboro Inlet Management, Broward County, Florida. Project manager for coastal engineering and environmental permitting for 165,000 cy inlet dredging project to improve coastal sand bypassing and inlet navigation. Conducted hydrographic and marine resource surveys and provided construction administration for rock dredging with offshore placement. Planned and negotiated mitigation for marine resource impacts and designed 1.6-acre artificial reef and provided construction administration for reef placement. Prepared and processed environmental permits through local, state and federal agencies with jurisdiction for the ongoing annual sand bypassing conducted by taxing district.

Lake Worth Inlet, Palm Beach County, Florida. Project engineer for technical review on behalf of downdrift municipality of inlet deepening design and studies conducted by US Army Corps of Engineers as part of federal environmental impact statement. Compiled technical comments on hydrodynamic and sediment transport numerical modeling, dredged material management, and environmental impacts.

Port Zante Cruise Ship Pier Expansion, St. Kitts & Nevis. Project manager for hydrographic surveys and coastal engineering studies including numerical modeling for the planning and design for the addition of a cruise ship pier to accommodate Oasis class vessels. Designed dredging and berth layout and managed ship simulation study to optimize berth layout.

Rickenbacker Causeway Recreational Area, Miami-Dade County, Florida. Project manager for design of shoreline stabilization and associated public recreation area improvements along 2.5 miles of shoreline of the Rickenbacker Causeway across Biscayne Bay. Marine resource and hydrographic surveys were completed, and coastal engineering analysis conducted to assess design wave conditions, sediment transport, and optimum shoreline stabilization methods. Design elements included landscaping, invasive species removal with native species restoration, parking improvements, stormwater management, and vendor kiosks for waterfront activities.

Haulover Marine Center, Miami-Dade County, Florida. Project manager for planning and design of marine works for 408-slip fully enclosed dry stack marina in Haulover Park to store boats up to 50 feet long. Designed adjacent parking lots and provided paving, grading, and stormwater management design. Designed and coordinated electrical, fire line, and potable water services to the development project. Designed marine works including the design of floating dock staging area with dredging and forklift operations area. Conducted Coastal A Zone analysis in accordance with FEMA guidelines for the planning and design of the site development with finished floor elevations and maintenance bay programming.

Tortola Cruise Ship Pier Improvements, British Virgin Islands. Project manager for coastal engineering studies, dredging design, and slope protection for cruise ship pier improvements for Tortola Pier Park.



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Lynette Cardoch, PhD, LEED AP

Director, Resilience & Adaptation

EDUCATION

PhD, Oceanography and Coastal Sciences, Louisiana State University, 2000

Fulbright Scholar, Ecological Economics, Universitat Autònoma de Barcelona, 1998-1999

MA, Marine Affairs and Policy, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Florida, 1994

AB, *Cum Laude*, Biological Anthropology, Harvard College, Massachusetts, 1992

CERTIFICATIONS

LEED Accredited Professional (AP), 2009

AFFILIATIONS

Board Member, Regional Council, Leadership Florida, Present

Board Member, Miami-Dade County Biscayne Bay Task Force, Present

Board Member, Miami-Dade County Planning Advisory Board, Present

Board Member, Harvard/Zofnass Sustainable Infrastructure Advisor Board (2014)

EXPERIENCE

Dr. Lynette Cardoch leads Moffatt & Nichol's global resiliency services as the Director of Resilience & Adaptation. She is a coastal ecologist with more than 20 years of experience in regulatory & water policies, coastal restoration, and urban & coastal resiliency. With her technical qualifications and collaborative management style, her assignments include steering interdisciplinary teams of engineers, scientists, and regulators. Dr. Cardoch has also worked closely with coastal utilities and natural resource agencies on integrated planning and operationalizing resiliency, particularly for coastal protection, storm surge, and interior flooding. She was an invited speaker to the AAPA Facility Engineering Conference (April 2019) and the AAPA CEO/Directors Meeting (July 2019) where she discussed port resiliency. She is an active resident of Miami-Dade County, recently appointed to the Biscayne Bay Task Force, which is charged with evaluating the health of the Bay and potential coastal improvements.

REPRESENTATIVE PROJECT EXPERIENCE

Resiliency Guidebook, Florida Department of Transportation (FDOT), Tallahassee, Florida. Technical advisor and co-author of FDOT's first resiliency guidebook, *Transportation Resilience Primer: The State of the Practice & Strategies for Resilience in a Changing World* (April 2018). The intent of this primer was to help FDOT and other transportation agencies prepare for the challenges of climate change and the related extreme & variable weather events. It summarizes key issues as well as the resources and tools available to assist with resiliency planning.

GIS Screening of State Highways Impacted by the Design High Water and Base Clearance Requirements, Intermodal Systems Development Office, FDOT District 6, Miami-Dade County, Florida. Technical reviewer for project that evaluated the impacts of increasing the Design High Water elevation due to sea level rise (SLR) on the roadway base clearance. The study area was limited to only State Roads east of the Salinity Control Line in Miami-Dade County. The Salinity Control Line is defined as a line following the South Florida Water Management District (SFWMD) salinity control structures on the canals that discharge to Biscayne Bay. The water levels in those canals, east of the control structures, are tidally influenced. The District considered these to be the most vulnerable to SLR since groundwater conditions would be most directly affected by changes in sea level.

Miami Beach Streetcar/Light Rail Project, City of Miami Beach, Miami Beach, Florida. Resiliency task leader who served as the lead author for the resiliency chapter of the design criteria that were being developed for the design/build for the City of Miami Beach's new light rail program. The draft criteria were intended to provide guidance for design considerations that they would need to include in their designs and bid prices.

Alabama Swift Tract Living Shoreline Project, Baldwin County, Alabama. Project approach and resource review leader. Project is in the post-construction monitoring phase (2017 – 2022). This project is a shoreline protection and restoration efforts aimed at offsetting injuries to the natural resources resulting from the 2010 BP Deepwater Horizon oil spill. The 1.6-mile project will reduce erosion and increase ecological benefits along the shoreline of the Weeks Bay National Estuarine Research Reserve. The design process included: recommended project features, biological surveys,



Lynette Cardoch, PhD, LEED AP
Director, Resilience & Adaptation

identification of affected landowners/leaseholders, design analysis and engineering calculations, regulatory requirements, and modeling reports.

Central District Wastewater Treatment Plant Engineering Approach for Climate Adaptation and Resiliency Plan, Miami, Florida. Project technical leader to formulate a plant-level climate adaptation and resiliency plan for the Central District Wastewater Treatment Plant (CDWWTP), its regional pump stations, and associated force mains. CDWWTP is the largest and most exposed of the three Miami-Dade County wastewater treatment plants. This facility served as a case study for further development into other critical infrastructure including other treatment plants and local pumping stations as applicable. This task involved generating agreement on acceptable levels of risk and risk tolerance, and associated levels of service during regular operations, as well as, extreme events. The purpose was to develop a framework to create a definition of resilience and climate adaptation that can be applied to CDWWTP during planning, design, and operations of critical infrastructure assets. Miami-Dade is anticipated to spend at least \$500 M on this plant alone, with over \$12B for their full wet infrastructure needs.

Biscayne Bay Coastal Wetlands Rehydration Pilot Project, Miami-Dade County Water and Sewer Department, Miami, Florida. Project manager who led the County's efforts to evaluate the potential effects of rehydrating the Biscayne Bay Coastal Wetlands with highly treated, reclaimed water, including impacts to the ecological health of the wetlands. Ultimately, the water was intended for large-scale rehydration of coastal wetlands as part of the Comprehensive Everglades Restoration Program. Because the water was intended to flow into a highly sensitive, specially designated water body (Outstanding Florida Water (OFW)), standard regulatory discharge limits are not applicable. The study aimed to establish agreement on the requirements for discharge such that it met the OFW standard that effluents must not degrade the ambient water quality. Dr. Cardoch led a team of scientists and engineers that designed and constructed an advanced treatment facility that produced highly treated reclaimed water. Her team developed additional baseline monitoring protocols to characterize the receiving wetlands. Extensive water quality testing was performed to determine levels of microconstituents, such as pharmaceuticals and personal care products. Dr. Cardoch led regular stakeholder meetings with federal, state, and local agencies.

Integrated Planning Framework, City of Baltimore, Maryland. Project manager who developed rigorous and defensible methodology based on EPA's Integrated Planning Framework guidance for infrastructure prioritization of \$2B wet infrastructure needs for the City of Baltimore, presently under a federal consent decree. Goals were to front load environmental benefits and optimize city expenditures in a City that is presently facing urban blight and financial constraints.



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Scott B. Lagueux, AICP, LEED AP BD+C
Director – Waterfront and Land Planning**EDUCATION**

MA, Urban and Regional Planning, University of Florida, 2002

BS, Business Administration, University of Florida, 1991

CERTIFICATIONS

American Institute of Certified Planners, #95533, 1998

LEED AP BD+C, #10042951, 2011

AFFILIATIONS

American Planning Association

USGBC, Charlotte Region
Urban Land Institute

Our Towns Habitat for Humanity (Charlotte), Board Chair

University of Florida Professional Advisory Council, College of Design + Construction and Planning, Board Member

Leadership Miami Class of 2000

EXPERIENCE

Mr. Lagueux specializes in waterfronts, resorts, and international development and has completed urban and commercial waterfront projects throughout the US and in more than 70 countries. Given his specialization in waterfront planning, typical projects have included parking and open space, marina, cruise, commercial, heritage, and supporting transportation infrastructure.

Mr. Lagueux joined Moffatt & Nichol to broaden the firm's waterfront planning services. With more than 23 years as a consultant, Mr. Lagueux has led a broad spectrum of planning engagements, inclusive of strategic planning, master planning, market analysis, feasibility study, project criteria development, and concept design, as well as input to associated economic impact analysis and environmental studies for both large- and small-scale projects. Beyond planning, Mr. Lagueux has carried projects through analysis, design, and construction document preparation to bid and construction services.

REPRESENTATIVE PROJECT EXPERIENCE

Port of Pensacola – Vision Plan & Reinvestment Strategy, Pensacola, Florida. Lead planner directing the visioning and strategy effort, with initial data collection and planning tasks already underway. The Port of Pensacola's 50 acres of facilities and infrastructure requires continual maintenance and upgrade to remain competitive. The goal of this effort is to assemble a plan for Port of Pensacola that provides a compelling, community driven vision for the future.

Bucktown Harbor Vision Plan, Jefferson Parish, Louisiana. Project manager and lead planner for the renewal of Jefferson Parish's Bucktown Harbor Marina vision plan, revitalizing a 30-acre parcel along Lake Pontchartrain into an active, public, and vibrant recreational destination. Project responsibilities involve varied community outreach engagements to establish a program and framework for the design development of recreationally based upland concepts, in-water, and associated commercial facilities.

Upland Planning for Waterfront and Docks, City of Ketchikan, Alaska. Project manager for ongoing planning and design of logistics zones, streets and pedestrian facilities able to adapt to larger cruise vessel and guests flows over the next 15 years. Work involves building models of vehicular and pedestrian flows using VISSIM and VISWalk to establish the current activity baseline and then develop incremental scenarios of larger volumes over time. Based on model results, follow-on planning and design work involves redevelopment of waterfront facilities covering approximately 20 acres.

Crown Bay Waterfront Feasibility and Redevelopment Study, Virgin Islands Port Authority, St. Thomas. Project contributor for area-wide master planning for development of new cruise facilities and uplands at Crown Bay and surrounding subbase. Work involves planning of in-water and upland elements to address the addition of one to two cruise berths, as well as all related logistic zones, passenger ferries, streets, pedestrian facilities, and other elements.





Scott B. Lagueux, AICP, LEED AP BD+C
Director – Waterfront and Land Planning

Experience Prior to Moffatt & Nichol

Waterfront Vision and Strategic Master Plan, City of Washington, North Carolina.

Project manager and lead planner for a 20-year-horizon vision for the City's waterfront and adjacent portions of its historic downtown. Mr. Lagueux led the project effort which included traditional land use and planning components, but also focused on achieving a product that would guide the community to visualize its preferred future, while pointing toward a mutually agreed-upon direction for citizens, investors, and others. Study products visually and strategically reinforced the Washington Downtown Harbor District's new brand by providing a vision community leadership and citizens could rally behind to market themselves and prioritize investment dollars. These products included the report, renderings, viewscales, key vignettes, and other project elements of the fully-realized waterfront vision.

As part of the effort, Mr. Lagueux led three highly collaborative public workshops with participation by more than 450 citizens. The plan included actionable steps for implementation across five phases. Implementation identified core initial investment foundational to long-term plan success and established a positive mix of revenue-generating enhancements with those that were revenue neutral or negative. The plan has been largely implemented and is a source of pride for the community.

Mobile Riverfront Redevelopment, Mobile, Alabama. Led the development of a conceptual Master Plan for the Waterfront Gateway to Downtown Mobile. To help the City address the potential of developing this exciting gateway, M&N Team developed the accompanying new gateway program to address this opportunity. With the focus on enhanced commerce, leisure, transport and learning opportunities, the project aims to promote increased access to active greenspace for recreational and passive leisure activities. Incorporating green infrastructure, and passive stormwater Best Management Practices into the design, the project serves to enhance a creative combination of greenscaping and landscape design for improved access to the unique Mobile Waterfront and in doing so also cherishes the values of past, current and future generations.

Cruise and Ferry Port Development on Vasiliesky Island, St. Petersburg, Russia.

Project contributor responsible for strategic planning and early conceptual design of a new, seven-berth cruise and ferry terminal complex and mixed-use facility on a reclaimed land site for Russia's National Container Company. Project included extensive mixed-use commercial areas and transportation infrastructure.

Istanbul Seaport and Cruise Center, Renaissance Development, Istanbul, Turkey.

Project manager responsible for all planning and design of a 5-vessel cruise port-of-call and homeport facility in Istanbul, Turkey. Planning and design included detailed transportation and logistics area modelling and assessment needed for bus, taxi, car movements as well as pedestrian (guest) flows.

Port Everglades' Security Improvements Project, Ft. Lauderdale, Florida. Project manager responsible for the design and implementation of a comprehensive, \$37 million maritime security improvements program. Project elements include vehicle gates, access control and CCTV systems and a command and control center.

New York Cruise Terminals and Waterfront Planning, Manhattan and Brooklyn, New York.

Project manager and collaborator, providing leadership and supportive roles for the market feasibility, planning and design associated with rehabilitation of New York's Hudson River Cruise Facilities (Piers 88, 90, and 92) and the development of new cruise facilities at Pier 12 in Brooklyn. Project work included extensive planning and design of transportation elements serving both facilities.



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Deborah C. MacPherson, PE
Structural Engineer**EDUCATION**

MS, Structural Engineering,
University of Massachusetts,
Lowell, 2003

BS, Civil & Environmental
Engineering (Structural
Engineering), University of
Connecticut, 2000

AS, Engineering, Wentworth
Institute of Technology,
Massachusetts, 1997

REGISTRATION**Professional Engineer:**

Florida, #66192, 2007

Louisiana, #41474, 2017

New Hampshire, #11392,
2004

Puerto Rico, #27657, 2018

ACCESS CREDENTIALS

TWIC (Transportation
Worker Identification
Credential) – US Department
of Homeland Security

EXPERIENCE

Ms. MacPherson has more than 18 years of project management and structural engineering experience with expertise in inspection, assessment, planning, design, construction document preparation, and post-construction award services for waterfront civil and structural projects with a focus on design of new and renovated waterfront structures. She completes these projects for a variety of public and private clients such as the Florida Department of Transportation, US Navy, US Coast Guard, and Air Force; municipal and state governments; container terminals; shipyards; oil and bulk ship terminal owners; and other organizations.

REPRESENTATIVE PROJECT EXPERIENCE

Wharves H, J, I, and L, Puerto Nuevo Terminal, San Juan, Puerto Rico. Project manager for the repair and upgrades to the existing Port of San Juan wharf to accommodate a new LNG-powered vessel. Upgrades consisted of installing new mooring hardware and fender system to accommodate the new vessel, replacement of the waterside rail, installation of crane tie downs for three new gantry container cranes, installation of a HFCS pipe trench and vaults, and installation of upgraded electrical system to power the new cranes. M&N provided conceptual design, construction documents, and construction support services to facilitate successful completion of the project.

St. James Terminal Deep-Draft Dock, St. James, Louisiana. Project engineer for development of concepts to assess the feasibility of developing a deep-draft tanker dock at St. James Terminal. Moffatt & Nichol evaluated the maneuverability of tugs and barges around the new deep-draft dock as they access the existing barge berth; performed static and dynamic mooring analysis of the new berth to determine best arrangement of the structures; and provided structural analysis, design and construction support services for the terminal.

Burnside Bulk Coal Terminal Development, Darrow, Louisiana. Project manager and resident engineer for the master planning, environmental permitting, and engineering services to assist with the redevelopment of the Burnside Terminal into a state-of-the-art major bulk terminal for coal, bauxite, and alumina. Led a team of engineers in the preparation of over 30 sets of tender and contract documents for the US \$320 million Phase I of this multi-phased project, which includes a new landside terminal, a new Continuous Barge Unloader and redevelopment of the existing bulk material berth. Led the on-site construction support services team to oversee construction of waterfront improvements including rehabilitation of the coal wharf and access trestle, construction of the CBU foundation and access trestle and the installation of conveying equipment and transfer towers. Civil site improvements include demolition; grading and drainage; utility construction; installation of fire water, potable water, wash-down water, and dust suppression water for the berths and the West Yard; and installation of mechanical and electrical services for the terminal, including four substations, duct banks, and power distribution. Provided design for conveyors, transfer towers, transfer chutes, and mechanical and electrical equipment.

Puerto Nuevo Owner's Engineer, Santa Marta, Colombia. Engineer on the owner's engineering team supporting the design-build effort for a new US \$500 million coal





Deborah C. MacPherson, PE
Structural Engineer

export terminal on the Atlantic Coast of Colombia. Member of the technical support team during the design and construction stages.

Manga Terminal, Cartagena, Colombia. Project engineer for the expansion of a 38.9-ha container terminal. The project consisted of a feasibility study for the expansion of the terminal to accept up to 12,500 TEU vessels and tender documents. Tender documents included the expansion of the existing wharf by adding Berth 9 (162 m) for a total of 700 meters, the expansion of the container yard to 39.3 ha by reclaiming 0.42ha of land, approximately 70,000 cubic meters of immediate dredging and the planning for future dredging for the 12,500 TEU design vessel.

Contecar Container Terminal, Cartagena, Colombia. Project engineer for the development of an 86-ha site as a container and general cargo terminal. Prepared tender and contract documents for the project which consisted of expansion of the existing 380-m wharf to a total length of approximately 970 m, the expansion of the container yard via reclamation to 61 ha, approximately 1.2 million cubic meters of dredging, and the development of cargo sheds, warehouses and new terminal entry/exit gates. The project also included supporting infrastructure such as office buildings, maintenance shops, customer inspection areas and general cargo storage areas.

Port Tampa Bay General Engineering Open-End Contract, Tampa, Florida. Senior Waterfront structural engineer for investigation, design, planning, and engineering services under an open-end contract with the Port of Tampa Bay. M&N has been serving as the Port Authority's on-call consultant for 20 years. Services provided include master planning, market studies, FEMA map revisions, inspection and evaluation of existing structures, emergency response investigations for ship collisions and structure failures, design and construction of new and replacement structures, permitting, bid support, and construction support.

Port Tampa Bay Berth 267 Repairs, Tampa, Florida. Project engineer responsible for developing short term repairs for Berth 267 to accommodate a future cruise ship. Repairs include installation of new sheet pile below the waterline to reduce soil loss and to replace the north end wall of the berth. Design was completed within six weeks from NTP to allow for expedited bidding and construction to meet the Port's target schedule.

RMK Merrill-Stevens North Yard Redevelopment, Miami, Florida. Quality control and structural engineer for the permitting, design, and construction support of a new shiplift facility along the Miami River, designed to accommodate Mega Yacht vessels up to 230 feet in length. The facility will support vessels on three upland transfer berths and three additional wet slips. Design components include approximately 1,000 linear feet of steel king pile and sheet pile bulkhead along the perimeter of the shiplift basin and along the river, mooring dolphin and catwalk structures, pile supported hoist platforms, fender piles, upland transfer berths with multi-directional rail grid, building foundations, and associated civil works. The project includes raising the site by approximately 4 feet to accommodate the FEMA base flood elevation for the Miami River.

Citywide Dock Design Report, Tampa, Florida. Quality manager for waterfront inspection and condition assessment report for various City of Tampa boardwalks, docks, and footbridges. The City of Tampa maintains an inventory of more than 30 boardwalks, docks, and footbridges at the City parks around Tampa. The inventory includes a majority of timber structures and some steel footbridges. M&N conducted an above water condition assessment of the structures and created an asset inventory for planning future maintenance and capital improvement projects. A report of the condition assessment was prepared along with opinion of probable cost estimates for the necessary repairs.



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Samuel R. Morrison

Technical Director Dredge Services

EDUCATION

BS, Construction
Management, Purdue
University, Indiana, 1989

CERTIFICATIONS

OSHA 40-Hour
HAZWOPER

AFFILIATIONS

American Shore and Beach
Preservation Association

Western Dredging
Association

EXPERIENCE

Dynamic construction project manager with history of leading multi-million-dollar projects to timely and effective completion. Mr. Morrison's 29-year career has involved expertly managing profit & loss (P&L), project resources, and engineering staff in US-based and overseas operations. Excellent track record of managing multiple operations, including project planning, estimating, bidding, and administration. Cultivate and maintain effective business relationships with key executive stakeholders across enterprise accounts. Enforce quality control and adherence for private and municipal clients.

REPRESENTATIVE PROJECT EXPERIENCE

Miami Harbor Deepening Phase II, Port Miami, Miami, Florida. Performed the role of Project Sponsor of Phase II of the Miami Harbor Deepening. After the previous contractor failed to complete the South Harbor improvements in the late 1990's, Port Miami partnered with the USACE to tender the project on a "best value" basis. Led the procurement phase and was instrumental in developing the RFP tender package. The project was awarded in 2005 to complete the deepening project which included the deepening of the Lummus Island Turning Basin and the Fisher Island Channel, along with maintenance dredging of the cruise ship berths. Had overall responsibility of project performance and P&L of the project. The project included both drilling and blasting along with excavation and offshore disposal of the material the hard material. The drilling and blasting performed in the marine environment was used to a test case for other USACE blasting projects in areas with many environmental resources and strict environmental controls. The project showed blasting could be accomplished with limited effect on the marine habitats. The project was successfully completed within time and within budget.

PROFESSIONAL HISTORY

Great Lakes Dredge & Dock Company, LLC, Oak Brook, Illinois (1996-2018). Served as project leader and executive at largest construction services company in US that provides dredging and land reclamation. Managed multi-million-dollar operations in the US and internationally, including management of more than 250 employees.

Vice President (VP) and Area Manager – West Coast, Caribbean, & Central America (2017-2018). Led business development initiatives and management of projects based on US West Coast, Caribbean, and Central America.

- Evaluated market conditions and forecasted future opportunities for region-wide projects.
- Dedicated as point person in discussions to influence client development and secure future project bidding opportunities.
- Managed operations for project planning; included estimates and bidding, administration, cost control, and subcontract management.

Puerto Nuevo Owner's Engineer, Santa Marta, Colombia. Engineer on the Owner's engineering team supporting the design-build effort for a new US \$500 million coal





Samuel R. Morrison
Technical Director Dredge Services

export terminal on the Atlantic Coast of Colombia. Member of the technical support team during the design and construction stages.

VP & Division Manager – Manama, Bahrain – Middle East, Africa, & India Division (2013-2017). Managed all commercial and operational aspects for expansion projects ranging from \$13M to \$400M throughout Middle East, India, and Africa.

- Negotiated proposal for largest project in region; \$640M Suez Canal Expansion Project.
- Directed closeout of \$400M Diyar Muharraq project and directed \$50M Island Project in Qatar; \$35M Hidd Expansion Project in Bahrain; and \$13M Al Khobar Project in Saudi Arabia.
- Supervised all activities with annual revenue of \$75M for 250+ employees and 8 regional managers across departments in purchasing, account management, commercial, human resources, and administration.

Vice President & Area Manager – Oak Brook, Illinois – South Atlantic (2012-2013). Developed project team and tendered \$200M Miami Harbor Phase III Deepening Project; one of largest dredging contracts in US.

Area Manager – Oak Brook, Illinois – South Atlantic (2010-2012). Managed overall project management in Southeastern region of US, including maintenance and beach nourishment dredging projects for Mayport Deepening Jacksonville; Rio Puerto Nuevo in Puerto Rico; Port Manatee in Tampa; Miami Beach; and Nags Head, NC.

Project Sponsor – Oak Brook, Illinois (2000-2010). Oversaw projects ranging from \$2M to \$95M, including: Miami Deepening Phase II; multiple Wilmington, NC deepening projects; and Freeport Bahamas Deepening project.

- Supervised operations for Cutter and Trailing Suction Dredges drilling and blasting projects.
- Improved relations with USACE, which led to future follow-on contracts.

Various Roles including Operations Superintendent, Project Superintendent, Project Engineer & Field Engineer (1989-1999).



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Jaime A. Pabon

Senior Environmental Scientist

EDUCATION

Juris Doctor, University of
Puerto Rico, 2009

MS, Environmental
Management and Policy,
Rensselaer Polytechnic
Institute, New York, 2001

BS, Biology, University of
Puerto Rico, 1999

AFFILIATIONS

Puerto Rico Climate Change
Council

Puerto Rico Resilience
Commission

Port Everglades Association

EXPERIENCE

Mr. Pabon has more than 18 years of experience in the environmental arena with focus on a wide variety of regulatory matters including wetlands, transportation (roadways, airports, and ports), endangered species, wildlife management, mitigation planning/implementation, energy, and facilities. His main strength is directly tied to project and client management as well as coordination with regulatory agencies. With a broad knowledge of National Environmental Policy Act (NEPA) guidelines, Mr. Pabon serves as an expert in environmental assessments (EA)/environmental impact statement (EIS) creation and related project components development. He is also skilled in mediation efforts to address a wide variety of stakeholder interests and needs. His experience has significantly engaged his skills and knowledge in port operations and development, as well as estuarine systems management and remediation (mostly related to EPA National Estuary Program), mitigation banking, non-profit organizations, and public-private partnerships.

REPRESENTATIVE PROJECT EXPERIENCE

Port of Tema, Ghana, Africa. Senior scientist responsible for review of reports and environmental practices—including environmental health and safety—associated with the development of a port expansion in Ghana, West Africa. This work is being undertaken on behalf of International Finance Corporation (IFC-World Bank) and involves review of performance standards (based on Equator Principles) established by World Bank and third-party lenders for this \$1.6 billion port project—the largest infrastructure project in Africa. Work includes site visits and analysis of submitted documentation to ensure compliance with agreed-upon World Bank standards.

Port of Savannah, Savannah, Georgia. Senior scientist serving as a key team member in developing environmental strategies for project components, NEPA compliance, and permitting guidance for the Port of Savannah improvements program.

Marine Stadium Mooring Field, Miami, Florida. Senior scientist responsible for permitting as part of the design of a new 97-slip mooring field in Coconut Grove. Project included close coordination with client, regulatory agencies (state and federal), and other stakeholders.

Dinner Key North Mooring Field, Miami, Florida. Senior scientist responsible for permitting and interagency coordination of this mooring field in the heart of Biscayne Bay. Moffatt & Nichol was contracted for the marine structures design and environmental permitting of this public managed mooring field, along with associated channel realignment and motorized vessel exclusion zones. Proactive coordination with client and regulatory agencies—particularly Miami-Dade County Division of Environmental Resources Management, USACE, and US Coast Guard—was key in achieving the desired permits.

Micro Fuel Handling Facility, Caribbean. Senior scientist responsible for permitting and regulatory compliance strategy, including overall local guidance, as part of the design of medium-voltage switchgear which serves a liquefied natural gas (LNG) fuel handling facility, including ship-to-shore LNG transfer platform, truck loadout stations, and supporting infrastructure for the regasification process.





Jaime A. Pabon
Senior Environmental Scientist

Inspection and Design of Repairs at Poseidon Wharf, (N69450-13-D-0009, TO 22), Naval Ordnance Test Unit, Cape Canaveral, Florida. Senior scientist responsible for state and federal permitting. Project included rehabilitation of 1,200 linear feet of pile-supported wharf used for vessel retrofit and munitions loading as well as associated access bridges, sheet pile retaining wall, utilities, and appurtenances.

B121 Boathouse Repairs, (N69450-13-D-0009, TO 21), Naval Air Station Jacksonville, Florida. Senior scientist responsible for state and federal permitting. Contract included preparation of design-bid-build documents for structural repairs and upgrades to the 1940s-era boathouse, docks, finger piers, utilities, and modernization of the two-story operations building.

Experience – Prior to Moffatt & Nichol

Caño Martín Peña Dredging and Ecosystem Restoration, San Juan Bay Estuary, Puerto Rico. Senior project manager responsible for developing and managing critical stages of one of the most significant ecosystem restoration projects in Puerto Rico. Efforts for this estimated \$650 million project consisted of development and execution of numerous studies and designs, including an EIS and feasibility report that was reviewed and adopted by USACE for a proposed dredging and rehabilitation of a 2.2-mile-long canal in the heart of San Juan. The Caño Martín Peña rehabilitation also required numerous utility reviews and relocation of approximately 25,000 residents, for which an interdisciplinary team and community integration was a key factor. (Design Completion: 2013/Construction: TBD)

CROWLEY Isla Grande Terminal Improvements Project, San Juan Bay, Puerto Rico. Project manager who provided regulatory compliance assessment and environmental strategy development for permitting and construction of a \$100 million lift on/lift off terminal for LNG-fueled post-Panamax ships. Efforts included benthic studies, regulatory agency meetings, utility surveys, and mediation efforts. (Design Completion: 2013/Construction: 2017)

San Juan Bay Estuary Restoration Projects, San Juan Bay Estuary, Puerto Rico. Project manager for several projects for the San Juan Bay Estuary Program and its watershed. Specifically, developed a benthic index that offered scientific health data for the different lagoon systems, coral survey for development of a project to protect a historic fort in Condado Lagoon, establishment of an environmental exhibition at San Juan Airport, and implementation of a project to eradicate an invasive tree species (*Melaleuca quinquenervia*) from the area. (Design Completion: 2017/Construction: TBD)

Property Audit for the Transfer of Control to Metropistas from the Puerto Rico Highway and Transportation Authority, Puerto Rico. Project manager for evaluation of the environmental, health, and safety condition of highway facilities to be transferred from the Puerto Rico Highway and Transportation Authority to a private entity (public-private partnership) including eight toll plazas, multiple mechanical shops, wetlands, and roadway structures, to document environmental health and safety compliance. Based on the environmental liabilities documented, this work was instrumental in adjusting the negotiated contract amount between the two entities.

Puerto Rico Ports Authority Culebra Ferry Terminal Reconstruction, Culebra, Puerto Rico. Project manager for marine studies in support of the redevelopment of this essential facility for the island of Culebra. The terminal and associated docks are located in critical habitat for endangered marine turtles and corals, which required significant technical documentation and effective negotiation skills in order to address local and federal regulations.



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Nina Piccoli
Coastal/Port Engineering Designer**EDUCATION**

MSc, Civil Engineering, Delft University of Technology, Netherlands, 2014

BS, Civil Engineering, Federal University of Santa Catarina, Brazil, 2010

REGISTRATIONS**Civil Engineer:**

Brazil, CREA/SC 106234-0

EXPERIENCE

Ms. Piccoli has more than four years of experience, specializing in port planning, logistic simulations, and coastal engineering. She has experience with projects in Europe, Middle East, Brazil, US, and Bahamas. With a comprehensive knowledge of river, port, coastal, and waterfront engineering, she is skilled in the use of multiple modeling tools including Arena, FlexSim, Delft3D, MIKE 21, SOBEK, and UNIBEST. She is also multilingual in English, Portuguese, French, and Spanish. In addition to her project experience, Ms. Piccoli has been actively involved in PIANC since 2013, specifically in the Young Professional Commission, and is currently vice-chair for the Americas.

REPRESENTATIVE PROJECT EXPERIENCE

Cruise Berth Study, The Bahamas (Confidential). Conducted the assessment of berth dimensions and maneuvering requirements of the turning basin and approach channel for the largest cruise ships based on industry guidelines and references such as PIANC *Harbour Approach Channel Design Guidelines* and *Guidelines for Cruise Terminals* reports, and Spanish ROM 3.1-99. Recommendations provided to increase the terminal berthing capability in accommodating the largest cruise vessels.

Bakers Haulover Inlet Management Plan Feasibility Study, Miami-Dade County, Florida. Coastal modeler for the additional hydrodynamic and spectral wave modeling (MIKE 21 HD and SW) required for the jetty extension optimization and analysis of the beach borrow area sand-trapping capacity. Calculated the beach profile volume changes, post-processed the collected Acoustic Doppler Current Profiler tidal current and wave data and conducted the analysis of economics of the proposed alternatives for sand bypassing.

Oban Energies, Grand Bahama, The Bahamas. Coastal engineering designer to provide services for the initial planning and design of a new liquid bulk terminal along the Northwest Providence Channel and to support the environmental impact assessment, including definition of design winds and waves, wave propagation modeling (DHI Mike 21 SW), flushing analysis (MIKE 21 HD and AD), and preliminary jetty design.

Grove Isle Shore Stabilization, Miami, Florida. Coastal engineering designer to develop design criteria for anticipated storm surge, design wave condition, and respective wave loads for design of a seawall to replace the structure damaged due to the impacts of Hurricane Irma. Conducted post-storm site assessment.

Sabine Pass LNG Sedimentation Study, Cameron Parish, Louisiana. Coastal modeler for conducting a sedimentation study for the existing slip and a proposed third berth of the Sabine Pass liquified natural gas terminal. Hydrodynamic and sedimentation numerical models were developed based on the Delft3D suite. Options for mitigating accretion of material such as the construction of pile arrays, training walls, and current deflecting walls were investigated. The plume dispersion related to the dredging operations of the new slip was evaluated with a coupled FLOW and WAVE Delft3D model. The study assessed the accumulation of material due to losses from the dredge at the terminal and from the disposal at the dredged material placement area at Louisiana Point, in the Gulf of Mexico.





Nina Piccoli
Coastal/Port Engineering Designer

Residences by Armani/Casa – Beach Fill, Sunny Isles Beach, Florida. Coastal engineering designer for design and preparation of beach nourishment permit and construction plans for placement of approximately 30,000 cy of sand excavated east of the Coastal Construction Control Line. Technical specifications were prepared for use by the client for obtaining construction bids. The beach fill pertains to the County's Florida Department of Environmental Protection Joint Coastal Permit, the County (Department of Environmental Resources Management), and US Army Corps of Engineers (federal) truck haul beach maintenance permits.

Master Plan and National Plan of Port Logistics Projects, Brazil. Civil engineer who led a nine-person waterborne infrastructure team for the National Plan of Port Logistics update project and development of the Brazilian Public Ports Master Plans for the Ministry of Transport, Ports, and Aviation. Coordinated the analysis of access channels and inland waterways to the following facilities: Port of São Francisco, Port of Paranaguá, Port of Antonina, Port of Santarém, Port of Belém, Port of Vila do Conde, Port of Santana, Port of Porto Velho, Port of Itaquí, Port of Imbituba, Port of Santos, Port of Cabedelo, and Port of Itajaí. Conducted technical visits and interviews of stakeholders including the Brazilian Navy, pilots associations, and port authorities. Managed the implementation of simulation models using ARENA for assessing access channel capacities considering actual and future scenarios, comparing capacity versus demand, and evaluating alternative solutions to reduce port congestion. Results are to support the Brazilian government on decision-making processes.

International Road Transport Regulation Project, Brazil. Project manager for a \$2.3-million project that consisted of creating a digital database containing regulations and road transportation agreements between Brazil and South American countries supporting the Land Transportation National Agency for improving international transport regulation.

Port of Jebel Dhanna/Ruwais Marine Operations Performance Assessment, United Arab Emirates. Graduate intern at Royal HaskoningDHV, Rotterdam, The Netherlands. Implemented a simulation model using FlexSim to assess the marine operations performance and give support to decision making. The analysis of existing conditions showed that with the existing access channel configuration and projected demand, the port will face an increase of waiting times in future scenarios. Measures to reduce port congestion, such as changing the operational rules or modifying channel geometry by either widening or deepening it, were simulated and all were determined to be effective. The increase in access channel capacity obtained by each alternative can be compared to the costs related to its implementation to select the best solution. Based on outstanding results, the project was nominated by the Dutch Association of Dredging Contractors for the Waterbouwprijs 2015, finishing in second place.

Economic Optimization of Breakwater Maintenance, Port of Constantza, Romania. Graduation project developed in cooperation with Van Oord. Adapted the design and optimization methods of new breakwater structures to suit existing structures. The modified methods were applied to a maintenance optimization case study for the Port of Constantza breakwater. The design hydraulic boundary conditions were verified followed by probabilistic simulations of damage accumulation. The probability distributions of expected total costs related to the expected accumulated damage and respective maintenance strategies were assessed by performing Monte Carlo simulations. The less costly option was identified.



moffatt & nichol

Jacqueline M. Brower, PhD, PE
Coastal Engineer & Scientist**EDUCATION**

PhD, Coastal and Oceanographic Engineering, University of Florida, 2015
ANG Officer Commission, 2nd LT, Academy of Military Sciences, 2011

ME, Water Resources Engineering, University of Florida, 2012

BS, Civil Engineering, University of Florida, 2010

REGISTRATION

California, Civil, 89126, 2018

AFFILIATIONS

Coasts, Oceans, Ports, and Rivers Institute (COPRI) UF Chapter President, 2014-15

American Society of Civil Engineers (ASCE) student member (UF chapter)

Tau Beta Pi (National Engineering Honor Society) member (UF chapter)

Chi Epsilon (National CE Honor Society) member, Treasurer, 2009-10

EXPERIENCE

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

REPRESENTATIVE PROJECT EXPERIENCE

Jordan Cove LNG Hydrodynamic Assessment, Port of Coos Bay, Oregon. Project engineer for hydrodynamic analysis to determine operational availability for vessels based on underkeel clearance and velocity criteria. Predicted transit windows based on tidal conditions, used for pilot navigation.

P-224, Ammunition Pier, Naval Weapons Station Seal Beach, California. Project engineer for coastal design of the US Navy Ammunitions Pier modification to service a wider range of vessels. Led design elements, to include runup, overtopping and stability analysis for proposed coastal structures. Led wave data processing and analysis for design criteria.

Cruise Terminal Berth I & II Improvements, Ketchikan, Alaska. Project engineer for the coastal and metocean design for berth modifications to include expansion of the existing berths with floating docks, gangways with drive-down ramps, and increased vessel length accommodations. Led hydrodynamic modeling efforts and metocean design criteria.

Pre-FEED and FEED for EDP Liquefied Natural Gas (LNG) Terminal, El Salvador. Project engineer for the coastal and metocean design of an LNG import terminal on the Pacific Coast of El Salvador. Offshore station with a subsea gas pipeline back to shore. Processed and performed quality control of collected wave data and analyzed metocean conditions (waves, currents, water levels, winds) impacting the terminal.

CONFIDENTIAL PROJECT: Perfect Day, North Atlantic Ocean. Project engineer overseeing shoreline restoration works for a major cruise line's private destination island. Engineered and designed coastal protective structures that withstood a Category 4 hurricane and placed 28,000 CY of beach fill. Provided construction management and environmental regulatory support services.

Shoreline Evaluation & Protection, Bel Air Bay Club, Pacific Palisades, California. Project engineer evaluating beach preservation options for a private country club's shoreline. Designed groin structural and aesthetic repair. Currently assisting with permitting process and facilitating regulatory agency coordination.





Jacqueline M. Brower, PhD, PE
Coastal Engineer & Scientist

Shoreline Improvements, Labadee, Haiti. Project engineer overseeing shoreline improvement works for a major cruise line's private destination. Engineered and designed coastal protective structures, sensitive to client's aesthetic requirements, and placed 25,000 CY of beach fill. Provided quality control of construction management and environmental regulatory support services.

Beach Nourishment and Shoreline Protection, Four Seasons Resort, Nevis, St. Kitts & Nevis. Project engineer overseeing shoreline restoration works for the beach nourishment. Evaluated potential coastal protection improvements that led to design of pier extension and upland flood protection. Designed and provided construction management services for the 75,000 CY nourishment.

Shangri La Breakwater Project, Hawaii. Project engineer responsible for numerical modeling of wave propagation and nearshore hydrodynamics. Project proposed to remove a breakwater to comply with health and safety concerns and improve water quality. Assisted in compiling environmental impact assessment for the project.

Moffatt & Nichol Instrumentation/Data Collection Lead, Long Beach, California. Coastal scientist leading the data collection programs for Moffatt & Nichol. Current data collection programs include the following: Seal Beach Naval Weapons Station – three wave gauges deployed in the basin; San Elijo Lagoon Tidal Monitoring, California – five tide gauges deployed to determine flushing, tidal muting, and model calibration; Redondo Pier, California – wave gauge deployed at existing pier; Four Seasons Resort, Nevis – wave gauge deployed at existing pier; Colorado Lagoon Restoration, California – water quality monitoring; and Sumay Cove, Naval Facility, Guam – gauge deployed to determine long period wave damage to floating piers.



CHRIS P. ZIMMERMAN, AIA

PRESIDENT / PRINCIPAL-IN-CHARGE

PROFESSIONAL PROFILE

The founder of CPZ Architects, Inc., Mr. Zimmerman serves as principal-in-charge of all projects undertaken by the firm, ensuring quality delivery of services and client satisfaction. In addition, he serves as lead architect/project manager on designated projects, providing day-to-day leadership of multidisciplinary project teams.



YEARS' EXPERIENCE
36

REGISTRATION
Architect:
Florida, #10,995, 1985
North Carolina #9716, 2004
Louisiana #6826, 2008
NCARB Certification, 1986
Licensed General
Contractor-Florida,
#CGC1507035, 1986

EDUCATION
Carnegie-Mellon
University-Bachelor of
Architecture,
1983

AFFILIATIONS
American Institute of
Architects
Boy Scouts of America -
Eagle Scout
Plantation Chamber of
Commerce

Mr. Zimmerman's client-focused commitment to project success – from precise documentation of measurable client goals and objectives, building code verification and project planning, to fully detailed construction documents, through final punch list – has earned him the reputation as a quality architect in the south Florida community. To his design work, Mr. Zimmerman also brings in-depth constructability knowledge and application to projects through his certification as a general contractor, a faculty that assures his clients that his designs have been developed to be economically buildable.

Mr. Zimmerman brought to his own firm the unique perspective of both architect and client. In his prior position as vice president of Scharf & Associates, he designed and managed more than \$50 million of new and renovation projects for both public and private sector clients. Earlier, he served in the owner's capacity, as Senior Project Architect for the City of Fort Lauderdale, creating award-winning designs on City projects. Through this combination of experience, Mr. Zimmerman brings a distinctly client point of view, coupled with architectural expertise and management efficiency, to each CPZ project.

PROJECT PROFILE

A record of meeting his clients' objectives for their projects underscores Mr. Zimmerman's commitment to quality architecture, personalized service, and effective project management. His broad project experience ranges from governmental, commercial/office, cultural, healthcare, and public safety facilities, to parks and recreation, resorts, and private residences.



Fort Lauderdale Fire Station #8

CPZ Architect's is currently working on the Schematic Design for the City of Fort Lauderdale Fire Stations #8, located in the heart of Fort Lauderdale on SW 17th Street and SW 1st Avenue, across from Broward Memorial Hospital. This new one-story facility is 10,000 sq. ft. with 3 bays. It houses 7 dormitories, 4 bathrooms, a public entry and all the amenities that go with a state-of-the-art fire station. It is anticipated to have the Florida Green Building Coalition Certification.

Cost: \$ 5 million

Completed: 2019



Westside Maintenance Facility Master Plan, Coral Springs, Florida

CPZ Architects Inc. was retained to provide master planning and harden their Existing Public Works Building for the City of Coral Springs. The existing Public Works Building is a metal building that does not meet current hurricane code. Since this is always a public works facility the city needed to keep this facility in operation. The most economical way to keep this facility in operation is to design a new building in another location on the site. Based on the city's funding and budget the project was designed in phases.

The facility was designed to be built in the following phases:

- Phase I: Central Stores Building (17,741 SF)
- Phase II: Fleet Services and Public Works Street Addition (11,700 SF)

Phase III: Demo Existing Metal Building and Add New Parking Lot

Cost: \$10 million

Completed: 2020



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PRESIDENT / PRINCIPAL-IN-CHARGE



Casino Beach Redevelopment, City of Lake Worth, Fl

Chris is currently working with the City of Lake Worth to renovate their Casino Complex at the Beach. CPZ has been hired to completely renovate the entire complex incorporating new beach access, water features, retail, beach amenities and associated parking. The design team is providing (4) conceptual designs and cost estimates for the renovation, refurbishing and/or new construction of facilities at the City's beach complex. The City's beach complex consists of the City's Casino Building, the pool and supporting facilities and surrounding property.

Cost: \$STBD

Completed: 2020



Galt Ocean Mile, Broward County, Florida

CPZ was retained by Broward County to renovate a 4,781 Sq. Ft. existing Reading Center. Broward County brought CPZ on board to coordinate space planning with their furniture consultant, coordinate the design and prepare the Construction Documents.

Cost: \$TBD

Completion: 2019



Sunny Lake Park, Davie, Florida

This 16 1/2 acre passive park and bird sanctuary for is located at the southwest corner of Griffin Road and the Florida Turnpike.

The Park and Meeting Facility include the following amenities:

- Observation Deck
- Canoe Launch
- Fishing Pier
- Exercise Stations
- Walking/Jogging Trail
- Horse Trailer Parking
- Connection to the Town of Davie Eastside Equestrian Trail
- Pavilions

Cost: \$600,000 Phase 1

Completion: Phase 1 completed in 2014

\$1.2 million Phase 11

Phase 11 2019



Flamingo Gardens Welcome Center, Davie, Florida

CPZ provided design services for the Welcome Center at the Flamingo Gardens, a botanical garden and bird sanctuary park in Davie, Florida. The facility will include a Visitors Center, gift shop, restaurant, multi-purpose rooms, and administrative offices and supporting spaces. Site improvements include new parking, site lighting and landscape upgrades.

Cost: \$2 Million

Completion: 2020



Shirley Branca Park Conceptual Restroom Building, Miramar, Florida

CPZ Architects is currently providing full architectural services for a new Cultural Amphitheater Complex at Shirley Branca Park that includes an amphitheater, a restroom building and park improvements. Mid Century Modern Style Architecture was the proposed style. Project is currently under schematic design phase.

Cost: \$200,000

Completion: T.B.D.



Doral Glades Park, Doral, Florida

Providing design services for this 25 acre park. Amenities include Environmental Nature Center, Amphitheater, dock, kayaking and boat ramp, nature trails, protected wetlands areas, large multi-purpose field, tennis, basketball & sand volleyball courts and children's playground.

Est. Cost: 10 million

Completed: 2019

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City of Delray Beach Police Station, City Hall and Public Works, Delray Beach, Florida
CPZ Architects has completed a needs basement of the Delray Beach Police Station outlining their current needs and providing an estimate of the future space needs for the next 10 years. A conceptual master plan was developed for two possible solutions to there space needs along with budgetary estimates. Option 1 included using the existing facility and expanding around the facility along with construction of parking garage. The second option was to construct a completely new multi-story facility on the back part of the site, while maintaining operation in the existing facility. Upon competition of the new facility, demolish the existing facility and construct the new parking garage. CPZ Architects has now been retained to provide a needs assessment for the City Hall and Community Center Site.

Cost: \$68 million

Completed: TBD



City of West Palm Beach Fire Station #4

New 11,000 sf 2-story fire rescue station. Includes 3 full apparatus bays with 7 dormitories on the second floor. Architectural style of Spanish Mission Revival was selected to be cohesive with the surrounding context of a neighboring residential historic district. LEED Gold certification is planned for this facility.

Cost: \$3.5 million

Completed: 2018



Coral Springs Public Safety Complex & Fire Station, City of Coral Springs, Florida

Comprehensive 3-phase renovation, expansion and hurricane hardening of existing 60,000 sf facility including new 2-story, 11,000 sf addition for state-of-the-art Emergency Management and Fire Department operations. Project involved complete reconfiguration of the complex's 7-acre site to expand parking space and provide new site security and emergency generator system. New facilities also include a 9,800 square foot LEED Certified Gold Fire Station, the only one of its kind in Broward County.

Cost: \$8 million.

Completed: February 2010



Shirley Branca Park and Band Shell, Miramar, Florida

CPZ Architects was retained by the City of Miramar to design and develop construction documents for the renovation of Shirley Branca Park. The park renovation included a 928-square foot restroom building and the addition of two new site features: a 2100 square foot Band Shell Building and a Splash Pad. The Band Shell and Splash Pad will both be accommodated within the existing park contours, paths and dense vegetation which at the same time will provide lawn seating for the audiences. These new additions will contribute to the community's development while providing a new outdoor gathering venue for music and diverse performance events. A Mediterranean design scheme will keep consistency with the City of Miramar's design scheme and their facilities.

Cost: \$850,000

Completion: 2017



Sunrise Senior Center Renovation, Sunrise, Florida

Provide Architectural Services for the initial phase for the Renovations. This includes meetings with staff to review scope and resolve any issues. General review of the electrical and mechanical systems and prepare a cost estimate of the overall scope.

Phase: Contract Documents

Scheduled Completion: 2019



City of Miramar Community and Cultural Amphitheater, Florida

CPZ Architects is currently providing architectural services for a new amphitheater building and 3,000 fixed seating and 2,000 lawn seating capacity. Site consists of two restroom/concession buildings and ticket booth. Site also consists of a promenade area for food and beverage sales for local vendors. Mediterranean style Architecture was maintained throughout the complex to match adjacent buildings throughout the park.

Cost: \$8 Million

Completed: 2015



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PRESIDENT / PRINCIPAL-IN-CHARGE



Sunrise Public Safety Facility, Sunrise, Florida

CPZ Architects was retained by the City of Sunrise for the addition to their Police Station community meeting room and site improvements. An additional 800 sq. ft. was added to the exiting community meeting room. Architecture of the new addition matches existing such as additional curtain wall and custom precast architectural panels. Site improvements included a water feature restoration, canopy modification, existing water feature pump renovation and new landscaping.

Cost: \$808,000

Completion: 2017



Miami Gardens Community Center, City of Miami Gardens, Florida

Owner retained CPZ Architects to replace the original architect at start of project construction of this 60,000-square foot complex. Project was successfully put back on track, meeting City's goals for completion.

Cost: \$12 million.

Completed: 2010



Miami Gardens Amphitheater, City of Miami Gardens, Florida

Owner retained CPZ Architects to design a 300 seat Amphitheater. Amphitheater facility is 2,500 square feet and seats 300 people on the retaining wall seating system with additional lawn seating. Project is currently under construction.

Cost: \$700,000.

Completed: 2011



Coral Springs Fire Stations #43, & #95

Demolish and replace with new identical fire stations on 2 different sites. The phasing of construction will allow for the installation of a temporary trailer for continued operations. Both stations to be built simultaneously. Fire Station 95 is in an existing park on Lakeview Drive and Fire Station 43 is replacing the existing station on Rock Island Road & Wiles Road in the City of Coral Springs, Florida. The same prototype station was used in two separate locations as a means of savings on Design and Construction costs for the City.

Cost: \$ 5 million

Completed: 2016

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Professional Resume
TYLER CHAPPELL

Education

Texas Christian University- Fort Worth, Texas, Bachelor of Science, August 1997, Environmental Science

Summary

Mr. Chappell's capabilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, gopher tortoise surveys, environmental permitting, mitigation design, and mitigation monitoring. Mr. Chappell has performed a number of endangered and threatened species surveys, jurisdictional determinations, and environmental monitoring reports. Mr. Chappell has also conducted construction compliance inspections including turbidity monitoring for wetland and coastal projects. He has prepared numerous Phase I ESA's and has over eighteen years of experience in many types of environmental permitting, including residential docks, marinas and coastal development.

Professional Experience:

VICE PRESIDENT

APRIL 2005 – PRESENT

The Chappell Group, Inc. Pompano Beach, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, gopher tortoise surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands. Construction compliance inspections including turbidity monitoring for wetland and coastal projects.

DIRECTOR, ENVIRONMENTAL SERVICES

JANUARY 1998 – APRIL 2005

Craven Thompson & Associates, Inc. Fort Lauderdale, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, gopher tortoise surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands.

Partial List of Projects:

- Gateway Hotel & Marina, Daytona Beach
- Harbour Towne Marina – Dania Beach
- Sunrise Harbor Marina, Fort Lauderdale
- Port Everglades Bridge over the FPL Discharge Canal, Port Everglades
- Boca Raton Beach Club & Marina, Boca Raton
- Ocean Express Pipeline, Dania Beach / Bahamas
- Miramar Regional Park, Miramar
- Dania Beach Port Casino, Dania Beach
- Border Patrol Center, Hollywood, FL
- Heron Bay, Parkland
- White Bay Cay, Exumas
- Hall of Fame Marina, Fort Lauderdale
- Fort Lauderdale Hollywood International Airport, Broward County
- Broward County Mitigation Monitoring, BC Waste & Recycling Services
- Pembroke Road over I-75, Broward County
- Sheridan Street, Broward County
- Deerfield Beach Pier Renovation, Deerfield Beach, FL
- Radisson Riverwalk Hotel, Tampa
- Port Everglades Turning Notch Expansion, Fort Lauderdale, FL
- Dania Beach Marina, Dania Beach, FL
- Broward County Segment II Beach Renourishment



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Certifications:

- ISA Certified Arborist

Affiliations:

- South Florida Association of Environmental Professionals, Past President
- Florida Association of Environmental Professionals, Past Board Member
- Leadership Broward Graduate, Class XIX
- Marine Industries Association of South Florida, Member
- Florida Inland Navigation District, Past Broward Commissioner
- Riverwalk Trust, Past Board Member
- Broward Alliance, Past Investor
- International Society of Arboriculture, Certified Arborist, Member
- Hillsboro Inlet District, Broward Commissioner
- Friends of Hugh Taylor Birch State Park, Secretary of Board
- Port Everglades Association, Board Member
- Broward Workshop, Business Advocacy Committee
- Coastal Coalition, Fort Lauderdale Chamber of Commerce



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Professional Resume
NICK ZWEBER

Education

Saint John's University- Collegeville, Minnesota, Bachelor of Arts, Biology, 2012

Summary

Mr. Zweber's capabilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, environmental permitting, mitigation design, and mitigation monitoring. Mr. Zweber has performed a number of endangered and threatened species surveys, jurisdictional determinations, and environmental monitoring reports. He has experience in many types of environmental permitting, including residential docks, marinas and coastal development. Mr. Zweber also serves as compliance inspector, providing construction observation and oversight for regulatory permit compliance including turbidity monitoring, mitigation planting inspections, verification of erosion control devices.

Professional Experience:

SENIOR PROJECT BIOLOGIST/REGULATORY CONSTRUCTION COMPLIANCE

OCTOBER 2013 – PRESENT

The Chappell Group, Inc. Pompano Beach, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, seagrass surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands. Regulatory construction compliance inspections including turbidity monitoring, mitigation planting inspections, and verification of erosion control devices.

MARINE SCIENCE INSTRUCTOR

SEPTEMBER 2012 – MAY 2013

Newfound Harbor Marine Institute at Seacamp, Big Pine Key, Florida

Responsibilities included educating middle school and high school students on the subtropical marine ecosystems of the Florida Keys, coordinating with teachers to determine program logistics and schools' schedules, operating a 26 foot United States Coast Guard designated Oceanographic Research Vessel to take students on snorkeling trips.

NORTH PACIFIC GROUND FISH OBSERVER

JUNE 2012 – SEPTEMBER 2012

TechSea International Inc. Seattle, Washington

Responsibilities included collecting species composition data of fish caught by commercial fishing vessels in the Bering Sea, coordinating with the National Marine Fisheries Service to ensure fisheries regulations were enforced, collecting scales, lengths, and otoliths of fish caught to determine age, recording mammalian and bird sightings and interactions.

Partial List of Projects:

- Port Everglades Turning Notch Expansion, Port Everglades, FL
- Broward County Segment II Beach Renourishment, Fort Lauderdale, FL
- Markham Park Lead Removal Project, Broward County
- Dania Beach Marina, Dania Beach, FL
- The Oceanage, Fort Lauderdale, FL
- Port Everglades Southport Phase IX, Port Everglades, FL
- Dania Beach Waterfront Revitalization, Dania Beach, FL
- Bahia Mar Dredging Project, City of Fort Lauderdale
- Boca Raton Waterway Parks Improvements, Boca Raton, FL

Affiliations:

- South Florida Association of Environmental Professionals, Member
- International Society of Arboriculture, Certified Arborist, Member

Certifications:

- ISA Certified Arborist
- PADI Open Water SCUBA
- 40 Hour HAZWOPER Certification
- FDEP Stormwater Management Inspector



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*Professional Resume***KATHRYN BONGARZONE****Education**

Averett University, Danville Virginia 2007-2010
B.S. Environmental Science, minor Political Science, Magna Cum Lade

Summary

Ms. Bongarzone's capabilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, environmental permitting, mitigation design, and mitigation monitoring. Ms. Bongarzone has experience with endangered and threatened species surveys, jurisdictional determinations, and environmental monitoring reports. As a member of *The Chappell Group, Inc.*'s team, Ms. Bongarzone is handling environmental permitting, including residential docks, marinas and coastal development projects.

Professional Experience:

SENIOR PROJECT BIOLOGIST MAY 2014 – PRESENT
The Chappell Group, Inc. Pompano Beach, Florida

Responsibilities include wetland jurisdictional determinations, environmental feasibility studies, Phase I ESA's, seagrass surveys, environmental permitting with all agencies, mitigation design, and mitigation monitoring. Residential and commercial marina permitting and design including all aspects of sovereign submerged land regulations with the Division of State Lands.

Newfound Harbor Marine Institute at Seacamp Association

Head Unit Leader/Instructor SEPTEMBER 2012- APRIL 2014

- Teach students through lecture, laboratory and field lessons in interpretive tropical marine science both on land and on water
- Captain a 26 ft. USCG designated research vessel, act as an ARC life guard, NAUI skin diving leader, and participate in hospitality services necessary to a residential facility
- Work directly with teachers to coordinate their trip for up to 120 students, including logistics, custom scheduling and lesson plans to fit the needs of each school

Partial List of Projects:

- Port Everglades Turning Notch Expansion, Port Everglades
- Dania Beach Marina, Dania Beach
- Yachts Miami Beach Boat show, Miami Beach
- Harbor Towne Marina, Dania Beach
- Lauderdale Marine Center, Fort Lauderdale
- Pier 66 Marina, Fort Lauderdale
- Sunrise Parks, City of Sunrise
- Cooper City Soccer Park, Cooper City
- Alsdorf Park, Pompano Beach
- Private client, single family home dock design and permitting
- Tortuga Music Festival

Affiliations:

- South Florida Association of Environmental Professionals, Member
- Leadership Broward, Class XXXVII
- International Society of Arboriculture, Certified Arborist, Member



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Certifications:

- ISA Certified Arborist
- USCG OUVF Licensed Captain with Towing Endorsement
- ARC Lifeguard, First Aid and CPR certified
- ARC Lifeguard, First Aid and CPR Instructor
- PADI Open water SCUBA certified



George SanJuan, P.E., LEED A.P.

President



Experience

George SanJuan created **Delta G Consulting Engineers Inc.** in 1992. Mr. SanJuan has led the growth of the firm to twenty one engineers and staff since October 1992.

George SanJuan is the founder of **Delta G Consulting Engineers**. He is an Electrical Professional Engineer with over twenty nine years experience as an electrical designer, project manager and Principal-in-charge. Some of the projects include:

Education:

Bachelor of Science
in Electrical
Engineering, 1988
from Florida Atlantic
University,
Associate of Arts in
Business
Administration from
Florida Atlantic
University, 1983

Registration:

Professional
Engineer Licenses
held in 6 States

LEED Accredited
Professional (2006)

Professional Affiliation:

USGBC
United States Green
Building Council

Experience

29 years

- **Dania Beach Library, City of Dania Beach, LEED Silver Certified**
- **Pompano Beach Transit Center Bus Canopy**, Pompano Beach, FL
- **Broward Performing Art**, Program and Building Expansion Studies, Fort Lauderdale, FL
- **Broward County Edgar Mills Multipurpose Center**, Design-Build Criteria Guidelines and Specifications; Broward County.
- **Weston City Hall** Weston, FL
- **Sunrise Public Work**, Sunrise, FL
- Numerous **Police Stations** in Broward County, Florida
- Numerous **Fire Stations** In Broward County, Florida
- Over 40 **Elementary and High Schools**; Broward County, FL
- Numerous projects at **Barry University**
- **Lynn University**
- **FIU Wall of Wind**
- **Fort Lauderdale-Hollywood International Airport over 100 Projects**; Fort Lauderdale, FL

Mr. SanJuan is the Principal of the firm and spends most of his time assisting the project managers of our (4) fully staffed project teams and support personnel. His responsibilities also include QA/QC and specialty projects. Mr. SanJuan also works very closely with the client's project teams and is instrumental in the management and coordination of projects from the initial kick off meeting through to final C.O. and commissioning of projects.



DELTA G CONSULTING ENGINEERS, INC.

Craig Bozeman

Electrical Engineer



Experience

Craig Bozeman is an Electrical Engineer with thirty six years of experience as an Electrical designer and project manager. He is responsible for total management of all aspects of projects to ensure they are completed on time and at the highest level of quality.

Mr. Bozeman has designed Electrical systems for various buildings, such as Office/Commercial, Educational, and Residential/Hotel.

Mr. Bozeman's years of experience includes all phases of electrical engineering design and analysis.

Education:

Associate Degree in
Electrical
Engineering, 1982
BCC

Experience:

36 years

- **Sunrise Public Work**, Sunrise, FL
- **Pompano Beach Transit Center Bus Canopy**, Pompano Beach, FL
- **Pompano Beach Street Lighting**, Pompano Beach, FL
- **The Cove in Deerfield Beach**, Deerfield Beach, FL
- **Broward County Edgar Mills Multipurpose Center**, Design-Build Criteria
- Have completed over 100 projects at **Fort Lauderdale International Airport** and other airports in South Florida
- **American Access Care** in Broward County, Florida
- **Starbucks and Dunkin Donuts** throughout Florida
- Over 40 **Elementary and High Schools**; Broward County, FL
- **Hyatt Hotels** (LEED Certified) in Michigan, and FL
- **BSO Main Jail Switchgear**; Fort Lauderdale, FL
- **Town of Davie Gun Range**, Davie, FL
- **Sunnyland Housing Development** (LEED Certified); City of Sunrise, FL
- **Lauderhill Lift Station #1**, Lauderhill FL
- **Lauderhill Lift Station #2**, Lauderhill FL





Stephen Bender P.E., LEED AP
Mechanical Engineer/Project Manager



Experience

Stephen Bender joined Delta G Consulting Engineers, Inc. in 2004 as a Mechanical Engineer. He has over 29 years of design experience in the Mechanical Engineering industry, including 9 years as a Project Manager for Delta G Consulting Engineers Inc.

Some of his clients include:

Healthcare Clients

- Miami Children's Hospital
- South Miami Hospital
- Larkin's Community Hospital
- North Shore Medical Center
- Mount Sinai Medical Center
- Wellington Regional Medical Center
- Sylvester Comprehensive Cancer Care Center
- University of Miami Hospital

Higher Education Clients

- University of Miami
- Broward College
- Barry University
- Lynn University
- Florida International University

Municipal Clients

- Broward County
- City of Sunrise
- City of Pompano Beach
- City of Fort Lauderdale
- Fort Lauderdale Airport
- City of Miramar
- School Board of Broward County

Resort & Hospitality Clients

- Holiday Inn in Aventura
- Hyatt Hotel in Orlando, FL
- Coconut Grove in Fort Lauderdale, FL

Education:

Bachelor of Science
in Mechanical
Engineering –
Rutgers University
1989

Registration:

Professional
Engineer Licenses
held in 2 States

Professional

Affiliation:

USGBC
United States Green
Building Council
LEED Accredited
Professional in 2007

Experience

29 years



Resume

Name: Preston R. Nevins
Title: Field Technician

Experience:
3/2006 – Present Florida Engineering & Testing, Inc.
Pompano Beach, Florida
Field Technician

Representative Projects:

Project: Central Broward Regional Park, Lauderhill, Florida
Contractor: Seawood Builders
Description: Density, Soil Sampling and Concrete Testing

Project: Broward County North Regional Wastewater Facility, Pompano Beach, FL
Contractor: Hazen & Sawyer
Description: Density, Soil Sampling and Concrete Testing

Project: Lakeside Village, Davie, Florida
Contractor: Klemow, Inc.
Description: Density, Soil Sampling and Concrete Testing

Project: Various Projects in Broward, Dade, & Palm Beach Counties
Contractor: Bodax Foundations
Description: Monitoring Installation Helical Piles and Auger Cast Piles

Project: Various Projects in Broward, Dade, & Palm Beach Counties
Contractor: Florida Foundation Systems, Inc.
Description: Monitoring Installation of Pin Piles and Helical Piles

Education:

2002-2006 Pembroke Pines Charter High School, Pembroke Pines, Florida
General Diploma

2007 ITT Technical Institute, Davie, Florida
Computer Aided Drafting

Certifications:

- Nuclear Gauge Training
- Radiation Safety
 - Nuclear Gauge Operation
 - Nuclear Gauge Transportation
 - ACI Concrete Field Level 1
 - CTQP Concrete Inspector
 - CTQP Asphalt Paving Level 1 & 2



CLIENT SERVICE REPRESENTATIVE

KEITH
Dodie Keith-Lazowick, PSM

QA/QC

KEITH
Thomas Donahue, PE

PROJECT MANAGER

KEITH
Stephen Williams, Sr., PE

CIVIL ENGINEERING

KEITH
Stephen Williams Sr., PE
Alex Lazowick, PE, PMP
James Thiele, PE
Jame Wills, PE
John Weymouth, PE

PORT / MARINE ENGINEERING

Moffatt & Nichol
Ken Parkinson
Tim Blankenship, PE
Lynette Cardoch, PhD, LEED AP
Scott Lagueux, AICP, LEED AP BD+C
Deb MacPherson, PE
Samuel Morrison
Robert Nathan, PE
Jaime Pabon
Nina Piccoli

LOCATION SERVICES

Survey
KEITH
Lee Powers, PSM
Michael Mossey, PSM

**Subsurface Utility
Engineering (SUE)**
KEITH
Daniel Checchia
Mark Mitchell

SUPPORT SERVICES

Architecture
CPZ Architects
Chris Zimmerman, AIA

MEP Engineering
DELTA G (CBE)
George SanJuan, PE
Stephen Bender, PE
Craig Bozeman

Geotechnical Engineering
**FLORIDA ENGINEERING
& TESTING (CBE)**
Preston Nevins

Environmental Engineering
CHAPPELL GROUP (CBE)
Tyler Chappell
Nick Zweber
Kathryn Bongarzone

KEITH Licenses

*State of Florida
Department of State*

I certify from the records of this office that KEITH AND ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 20, 1998, effective January 16, 1998.

The document number of this corporation is P9800000611.

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 February 5, 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 Fifth day of February, 2019*



*Samuel Rife
Secretary of State*

Tracking Number: 779824838CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sos.fl.gov/Filings/CertificateOfStatus/CertificateAuthentication>

STATE OF FLORIDA
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
KEITH & ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FL 33069
LICENSE NUMBER: CA7928
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

KEITH: Engineering

STATE OF FLORIDA
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
WILLIAMS, STEPHEN DONALD
2365 NE 7TH PLACE
FT. LAUDERDALE, FL 33304-3545
LICENSE NUMBER: PE32090
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Stephen Williams, PE

STATE OF FLORIDA
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
DONAHUE, THOMAS F.
1637 E. CLASSICAL BLVD.
DELRAY BEACH, FL 33445
LICENSE NUMBER: PE60529
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Thomas Donahue, PE

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
WILLS, JAME JELANI BRAD
3755 SW 90 AVENUE
MIAMI, FL 33135
LICENSE NUMBER: PE85632
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

Jame Wills, PE

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
THIELE, JAMES ARNO
6625 OXFORD DR NE
LAKE WORTH, FL 33462
LICENSE NUMBER: PE33254
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

James Thiele, PE

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
WEYMOUTH, JONATHAN PATRICK
2400 NE 12TH COURT
FORT LAUDERDALE, FL 33304
LICENSE NUMBER: PE52002
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

John Weymouth, PE

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
3965 Apalachee Parkway Tallahassee, Florida 32399-6508
License No.: **LS6860**
Expiration Date: February 28, 2021
Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes
KEITH AND ASSOCIATES INC
301 EAST ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643
nicole fried
NICOLE "NIKKY" FRIED
COMMISSIONER OF AGRICULTURE

KEITH: PSM

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
3965 Apalachee Parkway Tallahassee, Florida 32399-6508
License No.: **LS6805**
Expiration Date: February 28, 2021
Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes
LEE POWERS
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643
nicole fried
NICOLE "NIKKY" FRIED
COMMISSIONER OF AGRICULTURE

Lee Powers, PSM

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
3965 Apalachee Parkway Tallahassee, Florida 32399-6508
License No.: **LS5660**
Expiration Date: February 28, 2021
Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes
MICHAEL MARK MOSSEY
1321 NW 37 ST.
SUNRISE, FL 33323
nicole fried
NICOLE "NIKKY" FRIED
COMMISSIONER OF AGRICULTURE

Michael Mossey, PSM

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
3965 Apalachee Parkway Tallahassee, Florida 32399-6508
License No.: **LS4105**
Expiration Date: February 28, 2021
Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes
ADOLPHINE MARIE LAZOWICK
201 E ATLANTIC BLVD
POMPANO BEACH, FL 33069-6643
nicole fried
NICOLE "NIKKY" FRIED
COMMISSIONER OF AGRICULTURE

Dodie Keith-Lazowick, PSM

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE
LICENSE NUMBER: LA595904
The LANDSCAPE ARCHITECT
Names below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2019
WEINBERG, PAUL HARVEY
140 NW 107TH TERRACE
PLANTATION, FL 33324
ISSUED: 02/21/2018 DISPLAY AS REQUIRED BY LAW SEQ# 1160210001100

Paul Weinberg, RLA

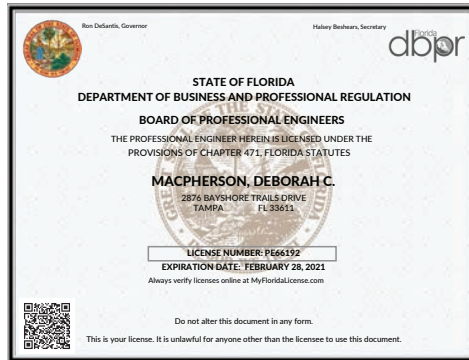
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE
LICENSE NUMBER: LA595904
The LANDSCAPE ARCHITECT
Names below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2019
KEITH AND ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FL 33069
ISSUED: 10/04/2017 DISPLAY AS REQUIRED BY LAW SEQ# 1171024001107

KEITH: Landscape Architect

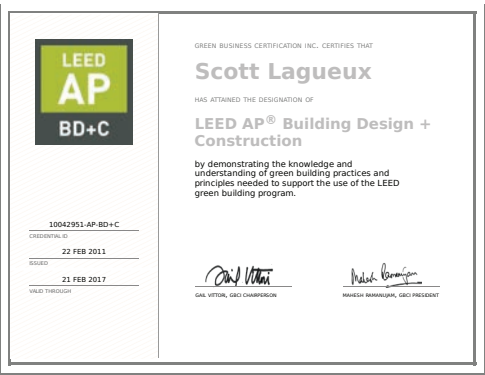
Moffatt & Nichol Licenses



Tim Blankenship, PE



Deb MacPherson, PE



Scott Lagueux, LEED AP BD+C

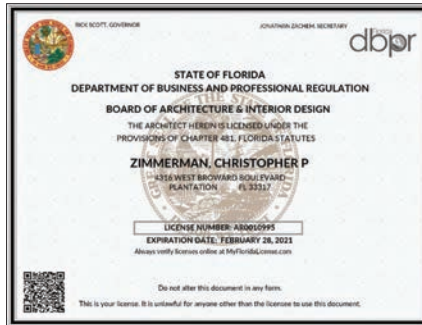
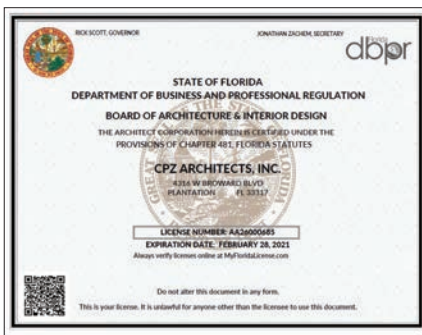


Jackie Brower, PE



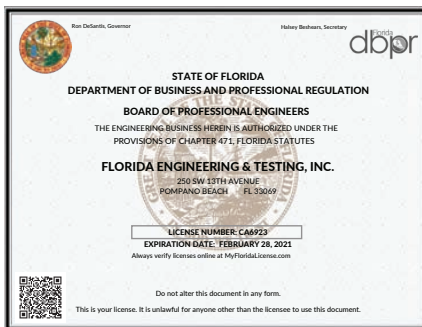
Lynette Cardoch, LEED AP

CPZ Licenses



Christopher Zimmerman, AIA

FETI Licenses



Florida Engineering and Testing:
Engineering

Florida Engineering and Testing, Inc.

250 SW 13th Ave
Pompano Beach, FL 33069
United States



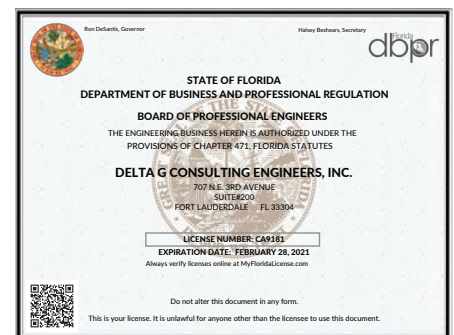
David A. Savage, Director of Accreditation

Christopher J. Robinson, P.E., President

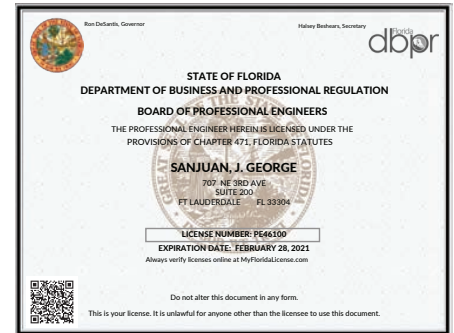
Accreditation Date: 11/2019 | Reaccreditation Date: 01/10/2021 | Expiration Date: 01/31/2025 | Accreditation ID: 100202

Florida Engineering and Testing:
CMEC

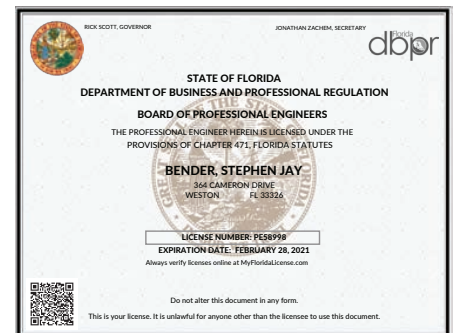
DELTA G Licenses



Delta G: Engineering



George SanJuan, PE



Stephen Bender, PE

DBE Certifications



August 29, 2017

Ms. Sarah Chappell
THE CHAPPELL GROUP, INC.
714 East McNab Road
Pompano Beach, Florida 33060

ANNIVERSARY DATE – Annually, on August 31st

Dear Ms. Chappell:

Broward County is pleased to announce The Chappell Group, Inc. has renewed its certification as a **Disadvantaged Business Enterprise (DBE)** in Florida, under a **Unified Certification Program (UCP)** in accordance with 49 CFR, PART 26.

DBE certification continues from your anniversary date, but is contingent upon The Chappell Group, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, assuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to remove The Chappell Group, Inc. as a DBE.

As long as The Chappell Group, Inc. is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of The Chappell Group, Inc.

The Chappell Group, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at

<http://www.3b.dcl.state.fl.us/EqualOpportunityOfficeBusinessDirectory/>.

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

Broward County Board of County Commissioners
Mark D. Boggs • Susan Furr • Steve Geller • Dale V.G. Holmes • Chip LaFolgia • Nan R. Roth • Tim Ryan • Barbara Shanel • Michael Udine
www.broward.org

Chappell Group: DBE



November 7, 2018

Ms. Christine Chang
FLORIDA ENGINEERING & TESTING, INC.
250 SW 13th Avenue
Pompano Beach, Florida 33069

Dear Ms. Chang:

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

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

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

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

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

NAICS CODE: 541330, 541380

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

Sincerely,

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

Cert Agency: BC-CBE
ANNIVERSARY DATE: NOVEMBER 15th

Broward County Board of County Commissioners
Mark D. Boggs • Susan Furr • Steve Geller • Dale V.G. Holmes • Nan R. Roth • Tim Ryan • Barbara Shanel • Michael Udine
www.broward.org

Florida Engineering and Testing: CBE



Delta G: CBE



Florida Engineering and Testing: M/WBE



LEED DESIGN

KEITH is currently providing integrated engineering design components on a number of public facilities to facilitate a designation of a LEED-Certified Building.



The following is a list of LEED projects that are currently in process of being LEED certified:

- Glade View Elementary School - LEED BD+C Schools
- Rosenwald Elementary School - LEED BD+C Schools
- Hallandale Beach Fire Station 7 - LEED BD+C New Construction
- Nova Southeastern University Sports Center - LEED Silver
- Pinnacle at Tarpon River - LEED BD+C Homes
- Tamarac Fire Station 78 - LEED BD+C New Construction
- FLL Terminal 2 - LEED BD+C New Construction
- FLL Terminal 3 - LEED BD+C New Construction

The following is a list of projects that have been designed to meet LEED standards:

- Discovery Elementary School
- Broward Health North Expansion
- Heron Heights Elementary School

The following is a list of projects that have received LEED certification:

- John Knox Village Woodlands Health Center - LEED BD+C New Construction Gold
- Maintenance Facility at Fort Lauderdale-Hollywood International Airport (FLL) - LEED Silver
- Gove Elementary School Modernization - LEED B+C Schools Silver
- Pompano Beach Fire Station 103 - LEED BD+C New Construction Gold
- Nova Southeastern University Sports Center - LEED BD+C New Construction - Gold

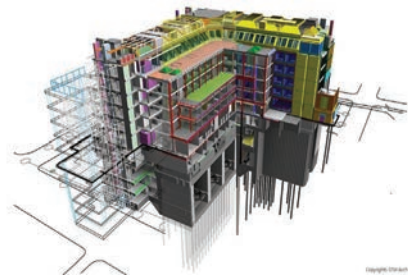
Additionally, there are a number of projects under the supervision of our Project Construction Management staff that are being managed through construction to meet LEED standards:

- BCAD Terminal 4 Gate Expansion - Desire Sustainable (under construction)

The following is a list of KEITH employees that are LEED Certified:

EMPLOYEE	TITLE	CERTIFICATION
Susana Bernal	Project Manager II	LEED Green Associate
Blake Thorson, RA	Project Manager	LEED AP
Edelberto Hernandez, EI	Engineer II	LEED Green Associate
Kelli Schueler, RLA	Director of Landscape Architecture	LEED AP

GIS / CAD / BIM CAPABILITIES



KEITH's approach to utility and Infrastructure design is not just to provide a cost effective, innovative design for current design projects online, but to look at the design with potential growth in mind and how projects will be serviced in the future, as new development and expansion takes place. KEITH understands the importance of designing with the future in mind.

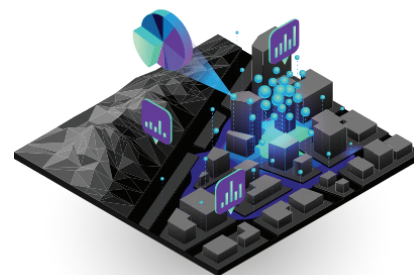
KEITH has the capacity and expertise to model existing surfaces through the use of laser scans/3D point clouds and proposed surfaces, underground utilities utilizing Civil 3D, as well as importing/coordinating other building information models on or adjacent to the site. With this knowledge, the Owner can consider potential savings in evaluating proposed projects, layouts of new buildings and facilities, preparing cut and fill calculations and quantity estimating/take offs, not to mention the advantage of having accurate data for future development, facility management and analysis of life cycle costs.

We believe in utilizing formulated guidelines to obtain all newly installed infrastructure, as well as field as-built information and test hole data in a digital geo-referenced format. The use of Building Information Modeling (BIM) as a deliverable allows for the owner to maximize their ability to have the data managed in all formats (Revit/AutoCAD Civil 3D, COBie data and GIS) and for that data to be utilized throughout the life span of the facility.

KEITH's experience with BIM is extensive, covering the building life cycle from, virtualizing existing conditions, to Design and Construction. In addition to Civil modeling we have experience with modeling and collaborating with all the other major disciplines and trades both during design and construction. We have handled projects big and small, including residential, commercial and healthcare. The KEITH Team will document the existing site into BIM using information from our Survey Team. From there, a geolocated Site BIM can be used by the entire Design Team as a starting point. The internal disciplines including civil engineering, landscape architecture and SUE will inform and develop the Design Civil Information Model (CIM) through the design stages. Revit Models will be shared regularly with the overall team to be visualized coordinated and managed in either NavisWorks or Autodesk BIM 360.

ENVIRONMENTAL RESEARCH INSTITUTE SOFTWARE (ESRI)

KEITH has been using ESRI GIS software since its initial release and have continued through its latest release of ArcGIS 10.7. KEITH has utilized ESRI software to complete projects for a number of private and public clients ranging from spatial analysis, parcel mapping, utility databases, 3D mapping, etc. KEITH has even partnered with ESRI on projects to help create custom solutions for our clients.



5-YEAR PROJECT LIST

Please refer to Tab 4, Workload of the Firm for KEITH's 5 year project list.

5-YEAR SEAPORT PROJECT LIST

Please refer to Tab 3, Past Performance for the Team's 5 year seaport project list.

CONTINUITY IN CONSTRUCTION AND PORT OPERATIONS

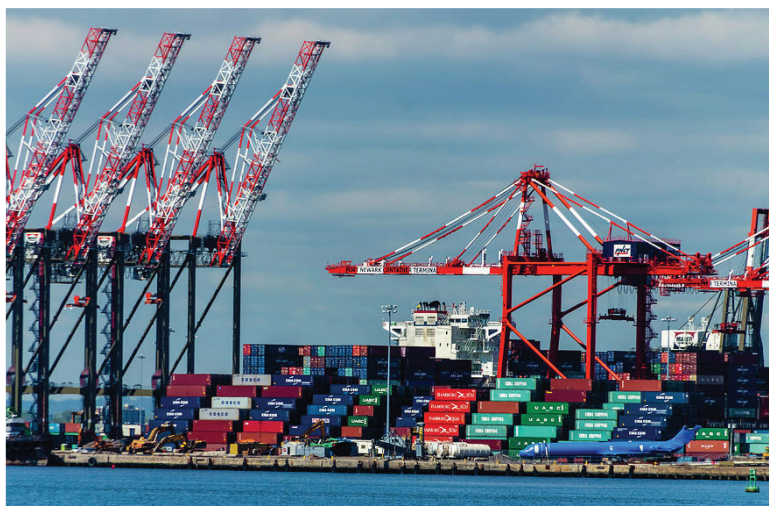
The KEITH Team routinely designs projects so that their construction may be phased to better meet our client's funding and operational needs. KEITH has designed projects to utilize multiple, concurrent construction contractors to speed project completion while minimizing or eliminating operational interruption.

An example of this shared continuity concept can be found in our subconsultant, Moffatt & Nichol's project at Port Newark.

Port Newark Container Terminal, Newark, New Jersey

Client: Port Authority of New York & New Jersey

P&O Ports, Ltd., one of the world's largest port terminal operators, and P&O Nedlloyd Container Lines Ltd., one of the world's largest container shipping companies, formed PNCT LLC to operate a state-of-the-art container handling facility in Port Newark. M&N was chosen to plan and design this new terminal, Port Newark Container Terminal (PNCT). This multi-million dollar upgrade involved consolidating two existing terminals into a single, 158-acre container terminal capable of handling "beyond Post-Panamax" container vessels. M&N provided planning, design, and construction services to convert the existing 30-40 yr old facilities from a low-density, wheeled container transfer carrier operation to a high-density, grounded, straddle carrier operation. Consolidation involved demolition of the existing buildings and truck gates and creation of a new container terminal that included a new two-stage truck gate, new buildings, new container storage yard striped for grounded operations, new yard lighting, and new high voltage electrical distribution system.



Consolidation involved demolition of the existing buildings and truck gates and creation of a new container terminal that included a new two-stage truck gate, new buildings, new container storage yard striped for grounded operations, new yard lighting, and new high voltage electrical distribution system.

The new terminal was designed to be completed in several phases and involved separate, but concurrent design and construction contracts. M&N provided overall project management and all associated design, except for the buildings and geotechnical engineering, which were provided by a sub-consultant. Design elements were completed for various phases through February 2001. M&N provided technical support during construction, which began in late 2000, and continue through March 2002. Restoration/consolidation was accomplished in two phases and involved 3 separate, but concurrent, design & construction efforts for:

- Wharf restoration/upgrade (wharf strengthening & crane rail rehabilitation)
- Buildings & terminal gate replacement/consolidation
- Civil sitework & container yard development

TAB 2

Project Approach





KEITH understands it is imperative to have senior staff members overseeing the planning, design, permitting and construction components of this project. This corporate philosophy results in an extremely efficient and responsive project management approach, as well as superior project designs prepared on time and within budget. We are committed to continue providing our most highly qualified professionals for this project, which will provide effective and responsive service to Broward County.

We have a keen understanding of the many challenges that can be encountered in a design environment.

Accordingly, we have assembled a design team with broad capabilities and depth of experience to address any needs that may arise. KEITH and its team of local professional consultants know and understand Broward County and Port operations. These many, many years of collective experience mean that the County's concerns with project development will be taken under consideration throughout the entire design and construction process. Thus, when planning, programming and / or assessing new construction or renovations to existing facilities, the KEITH Team is cognizant of utility operational requirements and the impact they have on our design work and schedule to successfully complete any work authorizations.

KEITH is well versed in the management and implementation of large-scale engineering design projects. As one of the veteran Broward-based engineering firms, we have provided a full suite of engineering services as a prime consultant for numerous governmental agencies for decades. Mr. Bill Keith, Founder, followed by Ms. Dodie Keith-Lazowick, PSM spent their entire careers right here in Broward County, providing high quality projects time and again for our clients.

KEITH believes in a context-based approach that considers multiple facets of the development process resulting in solutions that are curated for each authentic scenario. In addition to the traditional design approach, we believe careful consideration should be given to economic, ecological and social factors. This cohesive approach to each project is engineered to enhance the opportunity for a resilient solution. This triple bottom line approach to the design process is also combined with the need to create a sense of place through enhanced aesthetic beauty and quality.

Our approach is categorized into the following three (3) general phases:

1. Exploration Phase - The process of becoming familiar with an area through extensive analysis.
2. Inspiration Phase - The process of developing ideas emanating from the exploration process.
3. Implementation Phase - The process of activating a decision or plan.

Each phase builds on the previous and seeks to combine a triple bottom line perspective; with an emphasis on Social, Ecology and Economic influences. This context-based design approach considers multiple facets of the development process to result in a resilient solution that is cultivated for each project and task.

Our approach to every project begins with a "NO EXCUSES" methodology. We bring a unique combination of top-quality consultants with years of in-depth experience working on County projects under the leadership of KEITH, a firm you know you can trust with your important utility infrastructure projects.

As the Prime Consultant, the KEITH team will implement a rigorous communication protocol among all project participants. The basis of our management approach will focus on managing communication between our team and Broward County, as follows:

- Provide Single Point of Contact - Having a single point of contact for the County to simply reduce miscommunication and work as an extension for the County. In this contract, we have assigned Mr. Stephen Williams, Sr., PE as the Project Manager. He will be assigned in this capacity for the life of the contract to assure continuity and reliability to County staff
- Establish the involved group of stakeholders, and provide clear lines of communication to all, as required.
- Understand the objectives of the project and assure that all project stakeholders have the same level of commitment and expectation in understanding the scope of work
- Schedule periodic progress meetings
- Maintain strong, ongoing working relationships with County staff.



Our approach to this management plan is one that has proven successful with many projects. We will schedule all meetings in coordination with Broward County staff, conduct the meetings, provide agendas and meeting materials, record and submit minutes for review / approval and then distribute those minutes to the appropriate parties.

Based on the scope of each project, KEITH will develop a project schedule to sequence key activities associated with and required for the successful design of the project. By carefully scheduling and sequencing activities, key elements of the work authorization may be performed in a sequential, but staggered manner in an attempt to expedite delivery of the work authorization while ensuring all issues and concerns are properly addressed. An example of this would be that a certain level of general planning and conceptual design consideration of alternative solutions and interviews with authorities having jurisdiction, may be undertaken while site inspections and surveys of existing conditions at a site or facility are underway.

In addition to excellent project management, KEITH will also bring all service sectors to this project including, civil engineering, surveying, Subsurface Utility Engineering, landscape architecture, and construction management. KEITH will be involved in every task and will ensure the proper QC to be completed through the life of the project.

We believe that our overall corporate ideology, coupled with our expertise and commitment to Broward County, will be the keys to the successful execution of this contract. The following additional information specifically identifies our subconsultants roles in the project by discipline, expertise, and work element to be provided throughout the project phases and our core belief that we are the best fit Team for Broward County and for this Project.

SUBCONSULTANT TEAM

To deliver unmatched service to Port Everglades, a world-class team must be assembled. For this project, KEITH is thrilled to have national and local partners of the highest caliber. We have selected our team of subconsultants based on their technical expertise, our working relationships with their team members, and their experience on Port and municipal projects.

Moffatt & Nichol has been a global leader in port planning and engineering for more than 70 years. Clients around the world look to M&N for guidance in their planning and design needs for their modern marine infrastructure, and the related infrastructure needed to support them. As industry trendsetters at the forefront of technical innovations, efficiencies, and emerging trends, M&N's professionals maintain the highest degree of readiness and competency to meet Port Everglades' present and future needs.

The firm has more than 38 offices around the world and more than 770 professionals specializing in waterfront engineering projects. Their staff includes the largest collection of maritime engineers of any consulting firm in the United States. The firm is currently ranked third in maritime and ports facilities by respected industry publication Engineering News-Record.

Moffatt & Nichol has more than 50 Florida-based professionals working on marine engineering and construction, environmental permitting, coastal engineering, and transportation infrastructure projects for public and private sector clients. Their reputation for excellence in the marine engineering and environmental permitting fields has been built on years of experience working on complex and challenging projects along the world's coastlines. Today, the firm offers clients an elite, influential staff of engineers, planners, and scientists who are recognized for solving global and local problems where land and water meet.

Members of the Moffatt & Nichol team offer industry leading experience in port engineering. Combined with our local, national, and global portfolio, PortEverglades has access to virtually any service related to new or rehabilitation terminal projects and current innovations in operations technology.

M&N has been consulting in Florida since 1985 and has an established presence in Florida with offices located in Fort Lauderdale, Miami, Orlando, Tampa, Pensacola, Chipley, and Tallahassee.

WE KNOW AGENCY STAFF, STANDARDS, and PROCEDURES

The KEITH Team has performed a magnitude of work for the state, county and local municipalities within Southeast Florida. Our experience has resulted in a thorough knowledge of the standards, and how to apply them with a practical and common-sense approach. We believe that building relationships is what it takes to truly understand the concerns of the agencies and address them in a professional manner that is personal to the Agency. We take pride in building those long-lasting relationships and acting as an extension of our clients' staff.

The Permitting portion of our team's project approach is crucial to the project schedule and this coordination is key all the way through the project, and even through close-out. We are aware that most regulatory agencies are busy and even overworked. As a result, our policy is to "get it right the first time". We understand what the local and state agencies are looking for, and we provide them with quality complete designs including the information and documentation that they need, in a format that they are accustomed to, so reviews and approvals can be accomplished without multiple resubmissions.

KEITH utilizes a hands-on approach, meeting early in the process with all regulatory agencies to discuss the proposed planned concepts and assess the issues relative to their approval process. For utilities projects such as this, the time required for permitting can represent a major portion of the overall design time and will thus need to be tightly managed.

KEITH will be responsible for acquiring/compiling all necessary permit information. These materials will be packaged and submitted to the Broward County Project Manager. Permit status will remain an agenda item for each coordination meeting. Having local consultants on our team, who also understand the requirements of the regulatory agencies having jurisdiction, is another huge key to successfully and timely completing work authorizations issued to the KEITH Team under this contract.

Permits which will be required for the design under this contract may include:

- Broward County Environmental Protection and Growth Management Department (BCEPGMD)
- Florida Department of Environmental Protection (FDEP)
- Florida Department of Transportation (FDOT)
- Broward County Highway Construction Engineering Division
- Broward County Traffic Engineering Division
- South Florida Water Management District
- City of Fort Lauderdale
- City of Hollywood
- City of Dania Beach

We are very familiar with the requirements of Broward County, as well as numerous governmental agencies. For any design project, it is important to be proactive on the necessary permits to avoid any potential delays and to continue project momentum. KEITH provides a stellar reputation with these agencies of good design practices, accountability and extensive experience with project permitting and approvals.

As we have proven on recent significant BCWWS and BCAD utility projects, KEITH has routinely and expertly navigated and substantially expedited the permitting process of our projects through multiple jurisdictions and agencies providing a substantial cost savings benefit to Broward County.

We will also identify any critical long lead time items that Broward County may wish to procure in advance of the construction projects. This approach will ensure that such items are procured to facilitate project completion and delay avoidance, such as a dewatering permit.

QUALITY ASSURANCE/QUALITY CONTROL

KEITH is keenly aware that time is of the essence for most projects and cost is always an important component of the design. This is why we have established a Quality Assurance/Quality Control (QA/QC) Program that is implemented throughout the design process through project closeout. This ensures that the plans are prepared to the highest quality standards from the beginning and eliminates lengthy agency review and revision times. It also allows for value engineering and constructability analysis throughout the quality review process.



Underlying this quality process are three corporate philosophies; utilizing the right people to do the right things at the right time; putting our detailed and time-tested processes in place to facilitate quality work and delivery; and utilizing a comprehensive quality management plan that addresses quality control throughout every aspect of the project.

As a multidisciplinary firm, KEITH can and will provide an array of services and will be involved in each and every phase of this project.

CIVIL ENGINEERING

KEITH has extensive experience in providing professional services required for the development or redevelopment of land including the permitting, design, coordination and construction of roadway / parking area(s), stormwater, potable water, utility, and wastewater systems. Recognizing and expecting that each development or redevelopment project has its own unique site issues, KEITH performs a thorough

investigation into these issues in order to avoid planning, design, coordination, and construction issues. Our engineers have the knowledge and expertise to meet the needs of a wide variety of general civil engineering issues.

KEITH's staff has provided comprehensive planning and engineering services in various disciplines involving many government agencies, institutions, and municipalities. We have had the honor and privilege of serving as one of the City of Pompano Beach's Civil Engineering consultants for the past thirteen years on a continuing service basis. Our ability to work with municipalities, government agencies and other consultants, while providing close coordination with the client result in projects being completed on time and within budget. KEITH has found great success utilizing a team approach that has led to effectively identifying problems and defining solutions.

STORMWATER MANAGEMENT

KEITH has the knowledge and proven abilities to understand the complex nature of stormwater management. Especially in the urban environment, where balance must be achieved between the permitting requirements, restricted positive outfalls, budget limitations and existing historical drainage patterns. Our team has the professional acumen to fully investigate the existing conditions and propose creative solutions that will resolve and simplify the feasible alternatives. In addition, we are routinely familiar with the National Pollutant Discharge Elimination System (NPDES) Program, and the requirements to implement it.

WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEM SERVICES

KEITH has a vast experience with studies, designs, permitting and construction administration tasks associated with water distribution and sanitary sewer collection systems. Designs following standards of most all South Florida utility providers have been implemented. Sanitary sewer collection system designs ranged in pipe sizing from a 2-inch force main serving a grinder pump system to a 16-inch diameter force main transmission line. Numerous public and private pump station designs have been constructed throughout South Florida. Water distribution system designs ranged from 4-inch diameter fire sprinkler lines to 24-inch diameter water transmission lines. All manner of service demand evaluation and hydraulic capacity of these systems has been evaluated in the design of these systems. KEITH inspection staff have expertise with all AWWA/ Florida HRS testing requirements of water distribution systems and all FDEP testing requirements for gravity/ force main sanitary sewer collection systems. At Ft. Lauderdale Hollywood International Airport, KEITH was responsible for many miles of sanitary sewer force main and water main relocations and upgrades associated with the construction of the South Runway.

SURVEYING and MAPPING

The expertise of our Land Surveying staff is evidenced by a combined South Florida surveying experience of over 100 years. This experience has resulted in a tremendous database of knowledge and information. The ability to offer in-house surveying and mapping capabilities provides for a more comprehensive unified team. Services include boundary, topographic, control, wetland, mitigation, route, aviation, bathymetric, GIS, GPS, as-built, American Land Title and coastal surveys, legal descriptions, right-of-way mapping, design base sheets, title review, DTMs, differential leveling, construction stakeout, platting, expert witness surveying, and mapping services.



The firm maintains ten full-time field crews to provide for our clients on an as-needed basis. Our entire field staff has received Maintenance of Traffic (M.O.T.) Safety Training currently required by the Florida Department of Transportation for work within public roadways. KEITH is also in full compliance with the current School Board Security Clearance Policies of finger printing and successful background checks in accordance with the State of Florida Jessica Lunsford Act for school access by workforce personnel. We understand the importance of these security requirements and are in 100% compliance for the safety of our staff and the public.

KEITH has placed a strong emphasis on quality surveying and mapping practices and procedures. This focus ensures that our surveying personnel are committed to exceeding your expectations.



SUBSURFACE UTILITY ENGINEERING (SUE)

Subsurface Utility Engineering (SUE) provides accurate mapping of existing underground utilities, eliminating the need to “find out the hard way” that plotted utility information was inaccurate. Performed during the project design process, Subsurface Utility Engineering can help utility owners, designers, engineers and contractors avoid conflicts or project delays. To avoid these issues, many clients turn to KEITH, a recognized leader in Subsurface Utility Engineering. KEITH’s staff has the expertise required to deliver accurate utility information needed by clients, engineers, contractors and designers to make informed decisions. Using KEITH’s SUE services will result in the enhanced accuracy of project designs and cost estimates by collecting and mapping underground utility data that was primarily unknown.

Our team of experts also includes utility coordination managers with extensive experience in working with facility owners, design teams and agencies to mitigate conflicts between existing facilities and proposed designs. Our relationships with area utility agencies serve to facilitate negotiations, expedite requests for available records and ultimately the successful certification of each project.

LANDSCAPE ARCHITECTURE

Our Landscape Architecture Department specializes in the creative fusion of architecture, landscape architecture and the environment. The ability to offer in-house landscape architecture design capabilities, ISA certified arborist and certified landscape inspector provides for a more comprehensive unified team. Our approach is one of an extension of our clients’ staff, offering guidance and assistance to make smart, long-term decisions that result in greater value for them, their projects, their stakeholders and our community as a whole. Regardless of the scope of the project, we pay special attention to architectural and landscape detail and welcome every opportunity to improve our environment.

PROJECT CERTIFICATION and PERMIT CLOSEOUTS

As important as it is to effectively and efficiently design and construct a project, we recognize that it is equally important to finalize the project and get all the permits closed out. Our COI Team has proven success with project completion that is attributed to the care and attention paid to the project during construction. They are using GPS Enabled Photographic Equipment and check progressive as-builts to ensure Broward County standards are being met. Complete and concise documentation, reporting and organization during the construction phase allows for expedient project certification and close out.

On many traditional projects, the closeout of all contract-required conditions can be a drawn-out process. Often, staff must spend a significant amount of time at the end of the project reviewing paper documents gathered during the project to locate and catalogue the “proof” that the project has been completed and meets all requirements. Our approach uses an Electronic Document Management & Storage System (EDMSS) as part of the project database to provide a real-time record and progress of fulfilling each applicable acceptance condition. Our Final Acceptance Procedures have proven very effective in reducing the time to complete closeout on very complex projects.

As the Prime Consultant, we will identify potential conflicts early in the design process to the Port Project Manager and provide solutions that facilitate the continued success and objectives of the project. In managing the work, our Team will ensure use of a consistent set of design software and ensure consistent design standards and guidelines are used throughout the project. KEITH is a leader in the industry in terms of performing civil engineering designs in a 3-Dimensional realm. All work will be done with AutoCAD Civil 3D or the request software by the Port Project Manager.

COMMITMENT TO SUCCESS

Every member of our design team has a proven history of successfully completing projects of this size and nature, and this Contract has our full attention and commitment. Each member of our team is wholly committed to the success of all Phases within in Project. At KEITH we carefully monitor, measure and push to fruition each and every phase of the Project. We measure its progress to ensure we remain on track and on schedule. This is true through planning, design, permitting, bidding, administration of the construction contract and project close-out.

Understanding the proposed scope and schedule of the County on each Phase is fundamental to the success of the Projects and the KEITH Team knows what it takes to meet the expected goals and objectives of the Port and all the associated stakeholders.

We are fully committed to being a true partner with Broward County and Port Everglades. Keeping your best interests at heart, while delivering projects on time and within budget.

PORT AND MARINE ENGINEERING

Moffatt & Nichol is currently performing waterfront and coastal engineering services in Broward County for several public and private clients. These include:

- Town of Hillsboro Beach - beach management consultant providing coastal engineering and environmental permitting services
- Bradford Marine - Ft. Lauderdale; boatyard planning, and marine structural design, in conjunction with the KEITH Team
- City of Hollywood - coastal engineering consultant for general services contract providing coastal dune planning and waterfront facilities services
- Pier 66 South (fka Sails) - Fort Lauderdale; marina planning and marine structural design for redevelopment of facility at Intracoastal and 17th Street Causeway,
- Broadstone Oceanside - Pompano Beach; engineering design of reclamation, shoreline stabilization and dock facility along 1500 lf of the Intracoastal Waterway with 28 slips



Additionally, Moffatt & Nichol is providing services for several Florida DEP CCCL projects in Broward County.

WATERPROOFING

Moffatt & Nichol regularly consults on wet and dry flood proofing of structures for compliance with FEMA and Florida Building Code Requirements. The firm has provided FEMA consulting services for projects located within designated flood zones, and has performed site specific coastal engineering analyses to evaluate the Coastal A zone that is within the established AE zone.

SUB-AQUEOUS INSPECTIONS

M&N is one of the few firms in the U.S. that performs underwater inspections of waterfront facilities with engineer-divers. All divers working for M&N are ADCI-certified commercial divers. The firm regularly inspects U.S. Navy facilities worldwide, and the team specializes in the underwater assessment, design of marine structural rehabilitation, life-cycle costing, as well as bidding and construction administration associated with the rehabilitation of waterfront facilities.

With diminishing facility capital improvement budgets, cost-conscious facility operators are seeking alternatives to traditional structure repair or replacement. M&N has grown an inspection and rehabilitation practice that brings innovation—tempered with experience—to develop alternatives resulting in significant project cost and schedule reductions. The M&N process focuses on:

- Inspection – Providing below water, above water, and confined spaces inspections. Material sampling and testing is used on an as-needed basis.
- Assessment – Using traditional and finite element structural analysis to accurately define existing and rehabilitated load capacity. Service life modeling is sometimes used to assess comparative structure rehabilitation alternatives ranked by return on investment.
- Rehabilitation – Developing cost-effective designs that focus on facility modernization, address existing and future operational shortcomings, and accommodate facility tenants.

Distributing responsibility among few highly qualified individuals streamlines the rehabilitation process, provides accurate assessment, and saves our clients time and money. M&N employs more than 30 commercially trained, ADCI-certified engineer-divers. The same individuals performing the inspections can effectively communicate to our clients observed facility conditions. Accurate assessment and direct communication with clients promotes focus on repair types that meets client objectives. Many of the engineer-divers are NBIS qualified Inspection Team Leaders capable of performing both above and below water bridge inspections.



THE KEITH TEAM APPROACH

Our team brings industry leading experience in port engineering to the Port. Combined with our local, national, and global portfolio, the Port has access to virtually any service related to new or rehabilitation terminal projects and current innovations in operations technology. Be it streets, highways/freeways, grade-crossings and separations; rail and transit facilities; marine and waterfront structures, marine terminals, boating facilities, and piers and wharves— our team can offer proactive, cost-conscious support. Our public works portfolio also includes planning and design of sewers, storm drains, culverts, utility relocations, site grading and development, parking facilities, pedestrian bridges, bicycle paths, flood control structures, and pump stations. We also bring an outstanding reputation in the area of water resources and flood control.

Our team includes specialists in water quality improvements, wetland designs, flood routing, watershed management, fish passage design and coastal geomorphology, as well as coastal and marine structures, and harbor engineering. We emphasize that regardless of timing or complexity, we have the right resources ready for prompt mobilization.

As we look to continue our partnership with the Port through this procurement, we assure you a seamless, responsive, and successful partnership as you face a challenging and demanding future.

Planning and design of port and marine projects is often highly complex and requires a wide range of competencies. The KEITH Team consists of firms and individuals that specialize in the spectrum of services required for port planning and design, marine structures, and coastal engineering. Our multi-disciplined team offers the Port unparalleled experience in the following disciplines:

- Structural Engineering
- Geotechnical Engineering
- Civil Engineering
- Environmental Engineering
- Ocean and Coastal Engineering
- Utility Investigation and Locating
- Traffic and Transportation Engineering
- Architecture
- Landscape Architecture
- Mechanical Engineering/Plumbing
- CADD and GIS

The KEITH Team understands that the tasks assigned through this on-call contract will vary; therefore, the following pages provide a summary of our understanding of the most notable services associated with this contract and include the following:

- Studies
- Pre-Design Services
- Design Services
- Specifications
- Drafting
- Surveying and Base Mapping
- Environmental Services
- Permit Preparation Services
- Additional Engineering Design Division Support

STUDIES

The KEITH Team has the experience to perform several different analyses and studies at the request of the Port. These include capacity analysis, feasibility studies, coastal and navigational studies, fendering analysis, vessel maneuvering studies, mooring and berthing analysis, met-ocean studies, water quality and sedimentation studies.

PRE-DESIGN SERVICES

Pre-design services include feasibility reports, environmental checklists, cost studies, and project scoping. These studies are completed to determine an order of magnitude scope and cost of a potential project. These studies can range from one-page memos to Project Study Report Equivalents or, if Caltrans is involved,

a formal Project Study Report/Project Development Support document. Pre-design services include all required steps necessary to advance the project to the design level and include the following steps:

- Identification of the scope, goals, and objectives of the project. This includes identifying project constraints and the approximate time to complete the project.
- Identification of team members (including agencies, stakeholders, and consultants as applicable) and their respective roles and responsibilities.
- Preparation and implementation of the Project Management Plan and Quality Assurance/ Quality Control Plan.
- Performance of an alternatives analysis considering cost (AACE Class "C" construction cost estimate), design schedule, construction schedule, community and environmental impact, potential property needs, constructability, possible geotechnical restrains, and ease of maintenance.

This analysis will result in a Pre-design Report that recommends the preferred solution.

DESIGN SERVICES

Design services will be provided based on approval of the Pre-design Report. The first steps of the design process will vary depending on the nature of the design; however, it often starts by requesting a survey and obtaining a geotechnical report and concludes with the Engineer of Record's signature on the construction plans. Design services generally include the following:

- Preparation of the Basis of Design (BoD). The BoD is a "living" document that is continuously updated throughout task duration.
- Preparation of design drawings based on approved Pre-design Report and selected project alternative.
- Participation in regular project reviews.
- Development of a project schedule, milestones to include the 50%, 100%, and final design documents.
- Review, update and implementation of the Project Management Plan and Quality Assurance/ Quality Control Plan.
- Preparation of construction AACE cost estimate at 15% or 30%, 50%, and 100% design milestones.
- Preparation of a mitigation plan for complicated or extensive utility coordination requirements.
- Conducting a constructability review to ensure the package is "biddable" and "constructible."



SPECIFICATIONS

Technical Specifications will be prepared using Construction Specification Institute (CSI) format.

ENVIRONMENTAL SERVICES

KEITH's main goal for all projects is to streamline the environmental approval and regulatory permitting process to maximize client cost-savings and expedite schedules, while providing high-quality deliverable that minimize project exposure to potential outside challenges. This is true whether our environmental team are acting as the Environmental Lead in managing, preparing, and processing documents and permits; providing environmental oversight and quality control on work prepared by

others; and/or providing support strategy and consultation as an extension of Port staff or part of the Project Development Team (PDT). If selected for this contract, the KEITH Team is prepared to assist the Port on all project requests, no matter how large or small. Our approach to services are listed below and extend through project initiation, Project Approval / Environmental Document (PA/ED), Plans, Specifications, and Estimate (PS&E), construction and close-out.

- **Technical Expertise:** Environmental Division staff will ensure environmental documentation is suitable for project compliance with applicable federal, state and local regulations. Our subconsultant, Moffatt & Nichol, is comprised of both environmental generalists and specialists capable of covering any technical specialization needs including archeology, biology, noise, visual and other related studies.
- **Scoping:** Engineering and environmental staff will engage in preliminary project scoping to identify project design features that avoid and/or minimize potential environmental impacts. This key step will help ensure the project qualifies for the most streamlined environmental CEQA and NEPA document.
- **Project Description:** The team will work with the Port to prepare a comprehensive project description that incorporates design drawings and other graphics to convey the detailed aspects of the project. The project description will be submitted to the Port for review and approval and then to the County for review and approval (where applicable). A comprehensive description of construction and operational activities is key for ensuring consistency between technical studies and the environmental document.
- **Coverage:** The level of NEPA documentation will be scoped to ensure smooth procurement of any required regulatory permits from resource agencies, which may include the United States Army Corps of Engineers (USACE), United States Fish and Wildlife Service (USFWS).

PERMIT PREPARATION ASSISTANCE

KEITH will assist the Port in procurement, processing, and compliance of required federal, state, and local regulatory permitting as needed. The KEITH Team will work with Port staff and conduct project scoping to determine the need for regulatory permits based on project design and construction methodology. Efforts will be made to avoid work within agency jurisdiction to minimize impacts and potentially eliminate the need for procuring certain permits based on the project description. Our approach to services is as follows:

- Prepare appropriate drawings
- Prepare/review project description
- Prepare appropriate Harbor Development Permit (HDP)
- Prepare other as-needed permits/approval applications and submit to the USACE, USFWS, FDEP, FWC, BCEPGMD
- Act as the Port's agent in the permit procurement process
- Provide continuing professional services to support permit process including attendance and participation in meetings and hearings;
- Permit extensions and amendments; and
- Permit implementation/construction compliance.

ADDITIONAL SUPPORT

- Additional support for the Port's Engineering Design Division includes but is not limited to the following services.
- Local/State/Federal grant funding applications

- Third-party design reviews
- Value Engineering
- Asset condition assessment
- Cost Estimating
- Engineering analysis, advice and recommendations
- Design standard and criteria updates
- Standard plan and standard specification updates
- Infrastructure master plan updates (water, pavement, sewer, storm)
- Infrastructure master plan development (electrical, rail, structures, wharf)
- Sustainable design (Envision, Green Streets, etc.)
- Permitting
- Coordination with Port staff, terminal service operators (tenants), utility owners, Harbor Patrol (Security), and external stakeholders.

KEY REQUIREMENTS, TECHNICAL ISSUES, RISKS AND CHALLENGES

Similar to staffing, key requirements, technical issues, risks, and challenges will vary based on the task. Key requirements include adherence to the Port's applicable plans, policies, criteria, and guidelines including:

- Architectural Guidelines
- Green Building Policy
- Guidelines for Professional Consulting Services
- Port Everglades Standards
- Sustainable Landscape Palettes

As the Project Manager, Stephen Williams Sr. PE, will ensure all team members are compliant with the Port's requirements, especially in terms of deliverables and quality. This will be included in the Project Management Plan and the Basis of Design.

Technical issues are often the result of unclear direction or unidentified elements. To avoid unnecessary technical issues, Mr. Williams will ensure the following for each task:

- Clear scope of work is identified with assumptions clearly defined
- Identification and mitigation of potential risks throughout the delivery process
- Early identification of critical path elements that may impact schedule and/or budget

Risks and Challenges are often the result of unforeseen conditions, such as underground utilities, buried structures, lack of documentation, soil contamination, aging infrastructure, etc. Our team's history with the Port allows us to anticipate the risks and provide the right personnel who understand and can anticipate these types of unforeseen conditions and effectively prepare a mitigation plan.

THE KEITH TEAM IS YOUR TEAM

The KEITH Team approaches on-call contracts by understanding the scope of work on a given task order, considering key requirements, technical issues, risks and challenges, and assigns the best task leader for the task. Our task leaders use our Port-customized project administration, management, and coordination methodology to ensure successful completion of Port tasks on schedule and within budget. Our team has the depth of staff and a long history of partnering with Port staff to deliver any task order under this contract.





TAB 3

Past Performance

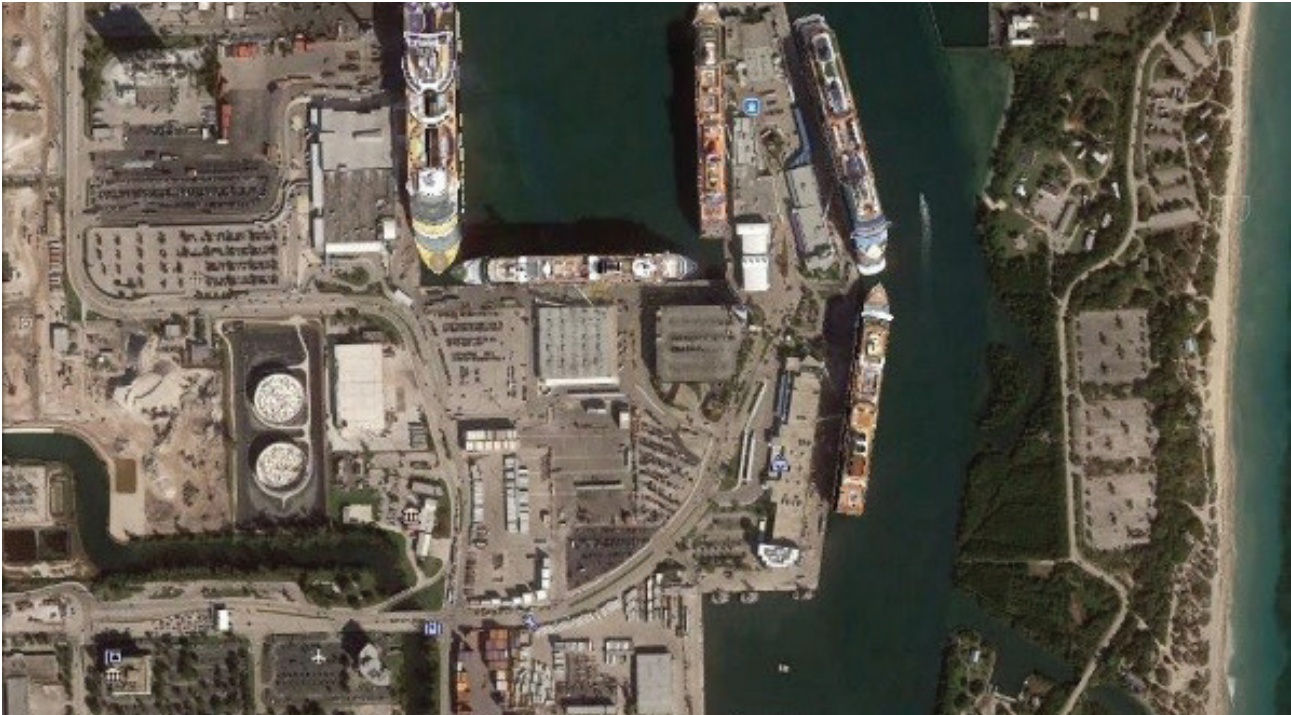




Port Everglades A/E Southport Phase IX

Project Location: Fort Lauderdale, FL
Project Commencement: 2015
Project Completion: 2018

KEITH



Owner: Broward County Port Everglades **Client:** BEA Architects, Inc. (Prime Consultant)
Mr. Bruno Ramos, AIA, President
(305) 461-2053 x122
Ber@beai.com

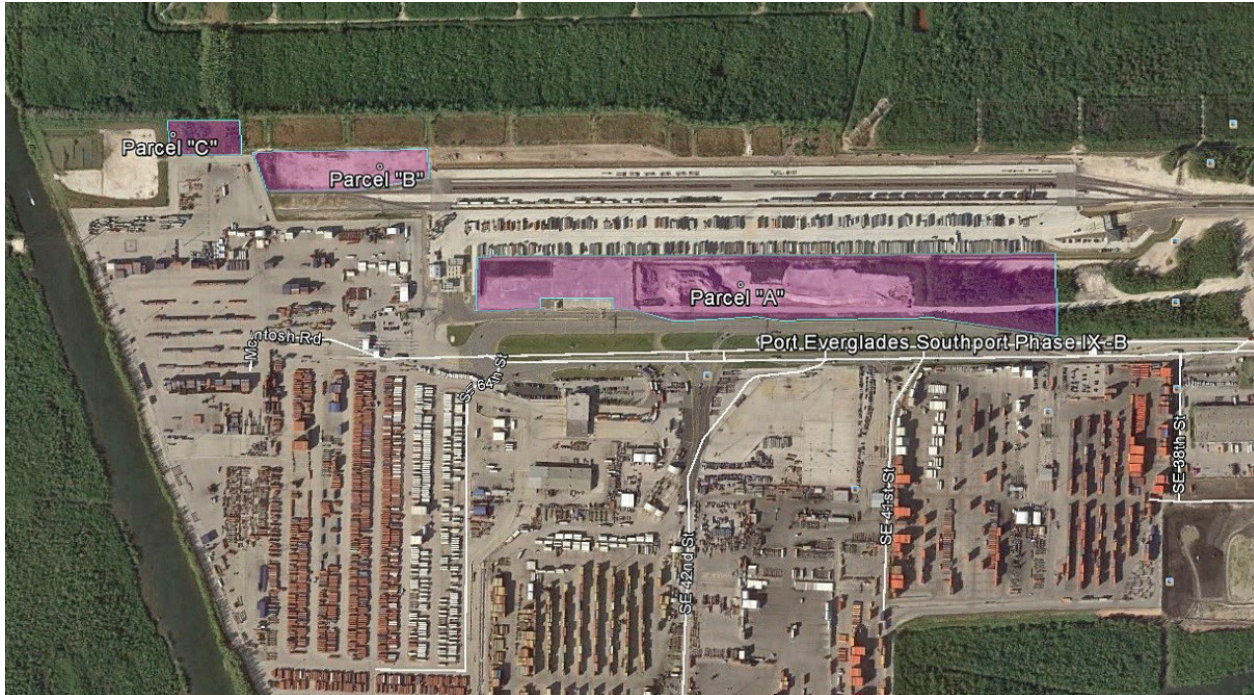
Project Description: This project entails the design, permitting and construction contract administration associated with the development of new cargo handling container yards. These container yards are integral to the expansion of Port Everglades' Southport Turning Notch, which is currently under development. The Project will include the design, permitting and construction administration of a new container yard and ancillary buildings (Phase IX-B). A second component of this Project will include environmental assessment and demolition of the existing Foreign-Trade Zone warehouse building and conversion of the site into a cargo handling container yard facility (Phase IX-A).

KEITH is providing land-side Civil Engineering, Planning, Surveying and Subsurface Utility Engineering (SUE) Services on this contract, including topographic survey, horizontal designation and vacuum excavation, stormwater management design and Permitting, water design for fire hydrant system design and permitting and Written Statement of Probable Construction Cost for Stormwater Management and Water System Construction Improvements.



Port Everglades A/E Southport Phase IX-B Container Yard Stormwater Report

Project Location: Fort Lauderdale, FL
Project Commencement: 2014
Project Completion: 2018



Owner: Broward County Port Everglades **Client:** BEA Architects, Inc. (Prime Consultant)
Mr. Bruno Ramos, AIA, President
(305) 461-2053 x122
Ber@beai.com

Project Description: This project entailed the design, permitting, and construction contract administration associated with the development of new cargo handling container yards. These container yards are integral to the expansion of Port Everglades' Southport Turning Notch. This 23 acre Southport IX-B, Project proposed to construct the paved laydown/storage yards for shipping containers or other port storage requirements. This involved the paving of the approximately 23 acre construction of an additional 1.2 A.C. dry retention area, connecting to the existing western dry retention areas west of the FEC-ICTF lease parcel. This connection is in lieu of the connections to the western retention areas that are in the existing conceptual permit. The project drains to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC. Mr. Stephen Williams provided management oversight for the completion of the stormwater report.



Port Miami Tunnel Project

Project Location: Miami
Project Commencement: 2009
Project Completion: 2014

KEITH



Owner: Miami-Dade County Port Miami CRA **Client:** BOUYGUES Civil Works Florida
Mr. Mike Matlosz
(305) 894-1880
M. Matlosz@bcwf-miami.com

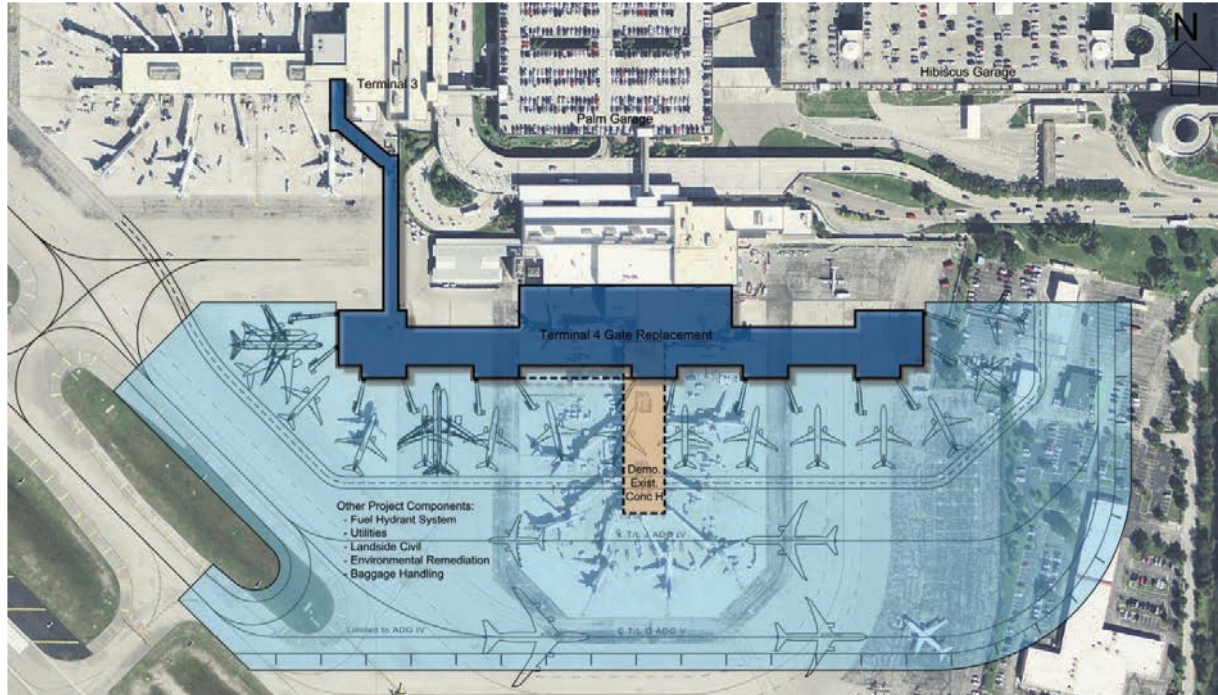
Project Description: The Port of Miami Tunnel Project consisted generally of (i) the widening of the MacArthur Causeway Bridge, (ii) two, 42-foot diameter tunnel connections approximately 3,900 feet long between Watson Island and Dodge Island (Port of Miami) and (iii) connections to the Miami roadway system. The benefits of the Port of Miami Tunnel Improvements include providing a direct connection from the Port of Miami to highways via Watson Island to I-395, keeping the Port of Miami (the County's second largest economic generator) competitive, and making downtown streets safer by reducing congestion on downtown streets.

KEITH provided surveying services for the establishment of the Primary Horizontal and Vertical Control Network on Dodge Island. KEITH also provided a detailed Topographic Survey including preparation of Digital Terrain Model (DTM) of the entire work area. Scope of service further required surveying services to locate utilities in conjunction with Subsurface Utility Engineering (SUE). Lastly, KEITH provided precise horizontal and vertical locations for the underground utilities in the area of the proposed tunneling on the Watson Island side of the tunnel, and sweeping the site with ground penetrating radar for potential unknown subsurface utilities.



CPM Services - Terminal 4 Gate Replacement for Fort Lauderdale-Hollywood International Airport

Project Location: Fort Lauderdale, FL
 Project Commencement: 2013
 Project Completion: On-going



Client: Broward County Aviation Department (BCAD)
 Mr. Marc Gambrill, PE, Director of Capital Improvement Projects
 (954) 359-2342
 MGambrill@broward.org

Project Description: This project includes the construction of a concourse with 14 new swing gates, a post security connector from Terminal 3 to the new concourse and required improvements to Terminal 3 to accommodate the connection. Construction of 7 vertical circulation cores connecting to a sterile corridor which provides access to the existing Federal Inspection Services (FIS). Modifications and expansion of the Security Screening Check Point (SSCP). Construction of new BCAD offices on the third and fourth levels at the center of the new concourse, including Airport Operations Communication Center (AOCC), and FLL Emergency Operations Center (EOC), construction of a chiller plant, commissioning and electrical substations, and demolition of the existing H concourse.

As a Sub-Consultant to Turner Construction, KEITH is currently providing Construction Project Management (CPM) services for this project. KEITH's responsibilities include controlling the overall sequencing of the projects to facilitate completion of each construction contract as part of the project within the approved time frame and within the estimate of construction cost of the project. Additionally, KEITH was also responsible for quality acceptance of the construction work in accordance with the construction and procurement contracts it manages and in accordance with BCAD/PMO Policies and Procedures, monitoring the work of the construction contractor(s), and responsible for construction management of the project-related construction contracts.



Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utility and Paving Projects

Project Location: Fort Lauderdale, FL
Project Commencement: 2016
Project Completion: On-going



Client: Broward County Aviation Department (BCAD)
Mr. Marc Gambrill, PE, Director of Capital Improvements Projects
(954) 359-2343
Mgambrill@broward.org

Project Description: KEITH serves as the Prime Consultant on this on-call contract providing civil engineering and auxiliary services for Utility and Paving projects throughout FLL and HWO. Some projects under this contract include:

- FLL T-4 East Apron Expansion Irrigation Connection
- FLL East Pond Irrigation Main
- FLL Westside Watermain Expansion loop
- FLL Utility Atlas & Miscellaneous Services
- FLL-AEP On-Call Services
- FLL 10R-28L Settlement Monitoring
- FLL North Runway Miscellaneous Repairs
- FLL Exit Ramp Milling and Overlay
- FLL North Runway 10L-28R Pavement Restoration
- FLL T4 Gate 504 Camera System Re-Design
- FLL NW 10 Street Temporary Access
- FLL North Runway Study Peer Review
- FLL FedEx North Runway Emergency Repair
- FLL GTA-1 and GTA-3 Improvements
- FLL Taxicab-Limo Hold Lot Communications Infrastructure



Pompano Beach Continuing Contracts

Project Location: Pompano Beach, Florida
Project Commencement: 2002
Project Completion: On-going

KEITH



Florida's Warmest Welcome

Client: City of Pompano Beach
Dr. Horacio Danovich, PE, CIP Manager
(954) 786-7834
Horactio.Danovich@copbfl.com

Project Description: KEITH is currently providing general engineering services to the municipality on an as-needed basis on this ongoing continuing services contract. KEITH has served as the General Engineering Consultant for the City for over 16 years. Some of the projects provided under this contract include:

- SE 8th Court Bridge Replacement
- Municipal Reclaimed Water Main Design
- Pompano Beach Sidewalk Construction Program
- Harbor Drive Beautification and Roadway Improvements
- Municipal golf course, cemetery, dog park and pier renovations
- Pompano Beach branch library renovations
- Oceanside Fire Station No. 11
- NE 4th Street Reuse Water Line Expansion
- Condition Assessments for Various City Owned Buildings and Facilities
- Pompano Beach Boulevard Water Main Design
- Municipal Chiller Plant
- Fire Station No. 103 Design
- SW 36th Avenue Sidewalk and Pedestrian Bridge
- Founders Park
- Pompano Air Park Maintenance Building Design

KEITH is currently providing general surveying and mapping services to the municipality on an as-needed basis on this ongoing continuing services contract. KEITH has served as the General Surveying Consultant for the City for over 16 years. Some of the projects provided under this contract include:

- South Cypress Road and SE 15th Court Intersection Design Survey
- Pompano Beach branch library Topographic Survey
- SE 13th Street Force Main Design Survey
- Utility Casting Federal Highway Design Survey
- SR A1A Survey and Subsurface Utility Engineering (SUE) services from Hillsboro Blvd to Terra Mar Drive
- Permanent Emergency Generators Design Survey for City Hall and Public Safety Building
- GIS Mapping Pilot Project
- North Riverside Drive Directional Drill Survey and SUE services
- Briny Avenue Survey and SUE services
- Palm Aire Park Topographic Survey
- SE 9th Avenue Bridge Replacement Design Survey
- Civic Campus/Old Pompano Topographic Survey and Updated Surveys
- Intracoastal Waterway Sign Surroundings Specific Purpose Survey
- Santa Barbara Reuse Water Line Expansion Topographic Survey
- Rustic Bridge Park Design Survey
- NE 4th Street Specific Purpose Survey



City of Deerfield Beach Miscellaneous Engineering, Planning & Surveying Services

Project Location: Deerfield Beach, FL

Project Commencement: 2004

Project Completion: On-going



Client: City of Deerfield Beach
Mr. Thomas Good
(954) 480-4400
TGood@deerfield-beach.com

Project Description: KEITH has served as the General Engineering Consultant for the City of Deerfield Beach for over 14 years. KEITH is providing on-going continuing serves as needed including engineering and surveying and mapping services to the municipality. KEITH also provided plan review services Some projects provided under these contracts include:

- Hillsboro Blvd and A1A "S-Curve" Beach Roadway Drainage and Beautification (Phase I and II)
- Ocean Way Café Luna Improvements
- Ocean Way Drainage, Infrastructure, and Beautification Improvements
- Deerfield Beach Sand and Dune Stabilization Re-nourishment and Erosion Control
- Deerfield Beach Boardwalk, Volleyball Courts and Artificial Reef Improvements
- Main Beach Parking Lot Improvements
- Intersection Improvement Design of Goolsby Blvd/Hillsboro Blvd
- Intersection Improvement Design of Century Blvd/Hillsboro Blvd
- Hillsboro Blvd Streetscape Improvements
- SW 15th Street Roadway Improvements
- Sullivan Park/Kester Marina Developments
- Pioneer Park Improvements and Boat Ramp Improvements
- Mayo Howard Park Surveys
- Paradise Point Engineering Design Surveys
- Comprehensive Plan Housing Element Update
- Industrial Zoning Ordinance
- Encroachment Exhibits Survey
- ADA Sidewalk Assessments and Design Services
- Powerline Industrial Park FEMA Drainage Study and Grant Application
- The Cove Shopping Plaza, Parking Lot and Alleyways Redevelopment & Beautification
- Deer Run Parkway Boundary Survey
- Highlands Park Improvements



Port Miami Program Management Consultant Services

Project Location: Miami, FL
Project Commencement: 2014
Project Completion: 2015

KEITH



Client: Port of Miami
Ms. Elizabeth Ogden, Assistant Port Director, Capital Development
(305) 347-5521
elizabeth.ogden@miamidade.gov

Project Description: KEITH served as a subconsultant to AECOM on the Program Management Consultant (PMC) Services contract for the Capital Development Division of Port Miami, assisting with FEC Intermodal Rail Yard grant reporting and scheduling, multiple project follow-up coordination, contract support, and general administration, as well as consultant/contractor invoice/pay application reviews and assisting the finance department with bid submittals received for Port Miami. Additional services included document control and close-out services, including all as-built and warranty documents for all CIP projects for the Seaport Maintenance Department.

Port of Tampa Berth 213 Improvements, Tampa, Florida

Client: Tampa Port Authority



Moffatt & Nichol provided project management, planning, permitting, design, construction documents and construction support services for improvements to Berth 213, including port operations, structural, civil site development, electrical, geotechnical, and environmental engineering. Berth 213 was constructed as a Pipe-Z steel sheet pile combination bulkhead with pile-supported, 100-foot-gauge crane beams.

Project management included team communication and integration, client representation at public meetings, and quality control. Moffatt & Nichol's involvement in permitting dealt with the waterfront structure and dredging aspects of the project.

The planning process involved multiple studies, including the following:

- An analysis of development opportunities and constraints for each of three build-out alternatives
- An examination of vessel, vehicle, and rail access to the site
- A capacity analysis including container throughput and a conceptual overall terminal layout
- Analysis of a range of operational possibilities with a layout of the above-grade infrastructure for each
- A gate analysis including sizing, queuing, and basic layout, as well as transaction procedure for truck processing
- The development of conceptual plans for providing rail access and intermodal train loading capability at the terminal
- The examination of a range of wharf types and construction methods
- A mooring arrangement and fender study to determine acceptable and cost-effective mooring and fendering alternatives for berthed vessels

The planning process culminated in a terminal master plan that identified opportunities and constraints for proposed (10-acre) and future (40-acre) terminal development and provided conceptual designs of alternatives for both proposed and future development options. Moffatt & Nichol completed 50% and 90% design for selected alternatives for the wharf and backlands. These designs presented corresponding levels of completion for plan views, sections, and details, as well as opinions of probable costs.

Following the port's approval of the 90% design, Moffatt & Nichol provided final design and bid documents for the combination wharf alternative that utilized 54-inch-diameter pipe piles joined by intermediate AZ-18 steel sheet piles, as well as the fender and mooring system. Terminal backlands involved design of more than 10 acres of clearing, grading, paving, drainage, and a stormwater treatment vault. Final grades and trench drains were designed to accommodate the straddle carriers, top-picks, and RTGs.

Subsequently, Moffatt & Nichol provided construction support services led by a full-time project manager who monitored conformance to construction documents. These services included weekly site representation during the 12-month construction period.

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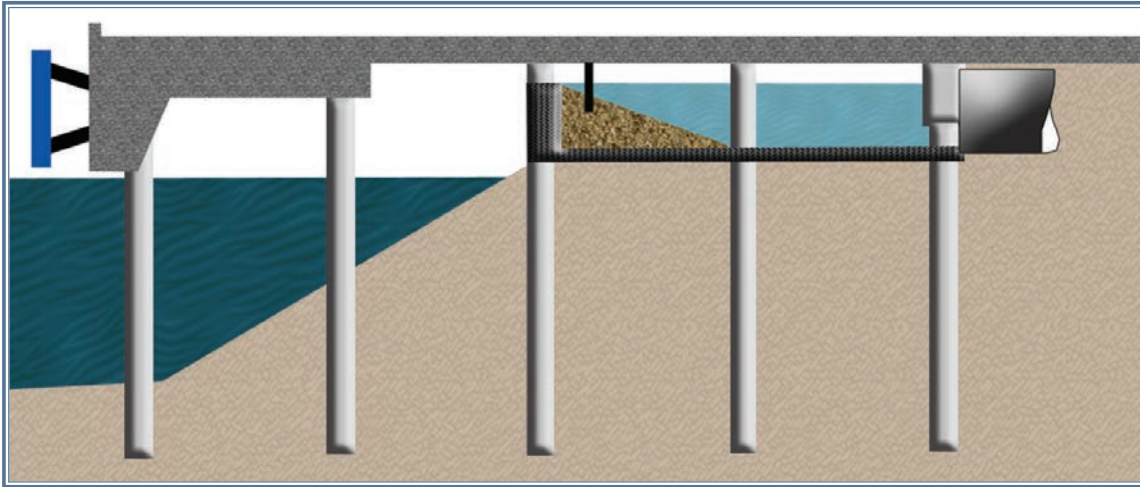


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Port Redwing Container Terminal Development, Tampa, Florida

Owner: Tampa Port Authority



Schematic Underwharf Stormwater Detention/Treatment Facility

Moffatt & Nichol provided planning, analysis, permitting, and conceptual design for a new wharf (4000 ft long) with ~110 acres of paved backlands for container or break bulk cargo operations, dredging, and associated mitigation. As part of the project, Moffatt & Nichol designed and successfully permitted an underwharf stormwater detention/treatment facility to handle drainage from the majority of the site (72.5 acres). An underwharf basin was beneficial because no additional structure was required for a retention basin because it was integrated directly into the new wharf thereby reducing overall project costs.

The underwharf stormwater detention/treatment basin was created by constructing a grade slab just above the low tide elevation with concrete containment walls. The seaward concrete wall was notched to provide an emergency overflow weir to prevent wharf/yard flooding from backwater build up through the trench drain system. Weirs included aluminum skimmers and utilized baffles to prevent any floatables (debris or oils) from exiting the system. Weir length/elevation were specified to handle a 25-yr return period, 24-hr design storm.

The bottom of the detention basin utilized a sand filter to clean stormwater before discharge to the Port Redwing Channel. Sand filter length was designed to allow several years between maintenance intervals. A perforated PVC pipe was incorporated into the filter to allow controlled basin drawdown; PVC discharged through outlets in the wall capped with check valve to prevent backflow.

Grade slab elevation resulted in a detention basin volume large enough to store the 100 year storm event and provided enough headroom beneath the wharf to allow sand filter maintenance (removal & replacement) by skid-steer loaders which reduced maintenance costs. Stormwater detention basin was accessed via backland ramp closed off using removable bulkheads.

4884-01



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Port of Tampa Cruise Terminal 6 Dive Inspection and Repairs, Tampa, Florida

Client: Tampa Port Authority



Moffatt & Nichol completed a general above-water and underwater routine inspection of Cruise Terminal 6, which consists of Berths 267 and 268, in order to assess the general condition of the existing structure for use as a cruise terminal facility. The inspection identified severe deterioration of critical load bearing members, which required detailed evaluation of the proposed uses of the wharf in order to identify areas critical to cruise ship operations. Repairs were prioritized based on proposed loading and ship operations. Moffatt & Nichol worked with

the Tampa Port Authority to develop a detailed design repair inspection and program for repairs to meet their schedule, budget, and operational constraints.

For Berth 267, Moffatt & Nichol prepared a repair design that included structural and non-structural pile jackets, bulkhead replacement, concrete fascia repair, and spall and crack repair. Moffatt & Nichol performed an analysis of AASHTO loading criteria, specified material handling equipment, and performed an analysis of cruise ship passenger bridge wheel loading and storm loading. An opinion of probable cost was established for the construction of the new berth and the associated engineering design fees.

For Berth 268, Moffatt & Nichol identified the berth as being in critical condition due to advanced deterioration of framing members, severe deterioration of the steel sheet pile bulkhead, and severe scour resulting in insufficient or no embedment and loss of bearing of multiple piles. As a result, Moffatt & Nichol recommended that Berth 268 be closed to vessel and vehicular loading. Due to the extent of the deterioration, repairs were not economically feasible and Moffatt & Nichol recommended that plans be developed for partial wharf reconstruction at areas essential to cruise ship operations. An opinion of probable cost was established for the construction of the new berth and the associated engineering design fees. Design of repairs included structural and non-structural pile jackets, bulkhead replacement, concrete fascia repair, and spall and crack repair.

For both berths, Moffatt & Nichol reviewed available archive drawings, performed a load rating analysis, conducted above- and below-water visual examinations, and took ultrasonic thickness measurements of the sheet pile wall. Moffatt & Nichol also developed criteria and supervised execution of subsequent design repair inspection for repair plans and specifications. In addition, Moffatt & Nichol completed pre-construction and post-construction underwater inspections of the deteriorated piles.

As a follow-on task, Moffatt & Nichol provided construction support services for the repairs, including review of submittals, preparation of shop drawings, and responses to RFIs relating to unforeseen site conditions and obstructions. Moffatt & Nichol also provided review of contractor work sequencing, wharf loading, repair techniques, value engineering proposals, and contractor-generated change orders. The project was completed on schedule and within the Tampa Port Authority's capital improvements budget limit.

7177



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Cruise Ship Wharf, Tampa, Florida

Owner: Tampa Port Authority



Moffatt & Nichol designed the replacement of 1,800 linear feet of outdated general cargo wharf with a new wharf and bulkhead for use by cruise ships. Moffatt & Nichol performed site surveying, geotechnical investigation and analysis, structural analysis and design, and stormwater management system permitting and design. The firm also designed the water and electrical utilities and the fendering system for the wharf. In addition, the firm prepared construction documents for both the demolition and construction, evaluated bids, and provided construction administration.

2762



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Port of Wilmington Berths 1-9 Deepening, Wilmington, North Carolina

Client: North Carolina State Ports Authority (NCSA)



Constructed between 1956 and 1990 along the east bank of the Cape Fear River, the Port of Wilmington's marginal wharves provide approximately 6,800 linear feet of berth divided among two dedicated container berths and seven mixed berths serving containers and breakbulk cargo. Moffatt & Nichol provided a planning study, design, construction documents, and post-construction-award services to deepen these nine berths from -38 feet to -42 feet. The principal concerns were the structural and geotechnical issues associated with both the increased depths and the larger vessels that could potentially call on the port.

Moffatt & Nichol conducted above-deck, below-deck, and underwater inspections to assess the structural adequacy of the existing components, including concrete piles, concrete superstructure, mooring and fendering systems, and cranes, for increased unsupported pile length, increased load conditions, and potential slope stability. Because construction records did not exist for the wharves, pile lengths were determined using wave-dispersion testing. Pile capacity analyses were performed for multiple combinations of increased dredge depth and increased loading conditions.

A planning report summarized the structure conditions, including structural adequacy under increased load conditions; the results of a geotechnical analysis; repair and replacement alternatives and other structural concepts to allow berth deepening; and opinions of probable costs. NCSA selected three different approaches to accomplish the berth deepening:

- Berths 1-4 would be dredged and a king pile toe wall with fender build-outs would be constructed to provide adequate standoff distances for the vessels from the wharf.
- Berths 5-7 would be dredged and a cantilevered steel sheet pile toe wall with fender build-outs would be constructed.
- Berths 8-9 would be dredged and fender build-outs would be constructed to maintain fender offset alignment with Berth 7.

Moffatt & Nichol prepared construction documents for these improvements as well as new fender systems, mooring hardware, and concrete repairs.

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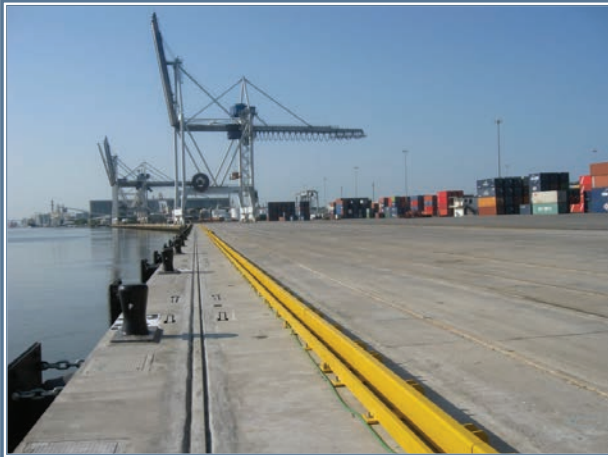


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Garden City Terminal Berths 2 and 3 Improvements, Savannah, Georgia

Client: Georgia Ports Authority



Under an 8-year professional services contract with the Georgia Ports Authority, Moffatt & Nichol evaluated the existing material condition and suitability of 2,340 linear feet of pile-supported wharf to be deepened, handle larger container vessels, and support larger ship-to-shore container cranes. Moffatt & Nichol completed detailed design and preparation of construction documents for the project.

Moffatt & Nichol conducted a condition assessment program to evaluate the material condition of the berths and identify any deficiencies. A Basis of Design for the different

loads envisioned for future operations and conceptual alternatives for upgrading the berths were developed. A structural analysis found that both the waterside and landside crane beams were not adequate to support new Super Post-Panamax container crane wheel loads.

The full length of the wharf, including the waterside and landside crane beam and rail, fender system, mooring hardware, and utility systems, was rehabilitated. Waterside work included removing the front 12-foot-wide portion of the existing berth and the existing precast concrete piles; replacing the front portion of the berth; and installing new 20-inch-square prestressed concrete piles, a new crane beam and rail, a new fender system, new mooring hardware, and new stowage pins and tie downs. Landside work included asphalt and concrete pavement removal to facilitate installation of both 12-inch-square prestressed concrete piles and steel H-piles.

Upgrades were made to both electrical and water utilities, including the addition of temporary crane power, a new 13.8 kV crane power feed, and new 480V crane shore power connections; the installation of fire protection hydrants and piping for potable water vaults; the construction of new water and electrical pits; and the provision of ten new and/or existing crane power points.

Moffatt & Nichol provided full-time construction surveillance and provided construction support involving submittal reviews, pay applications, technical support, progress meetings, and Record Drawing preparation.

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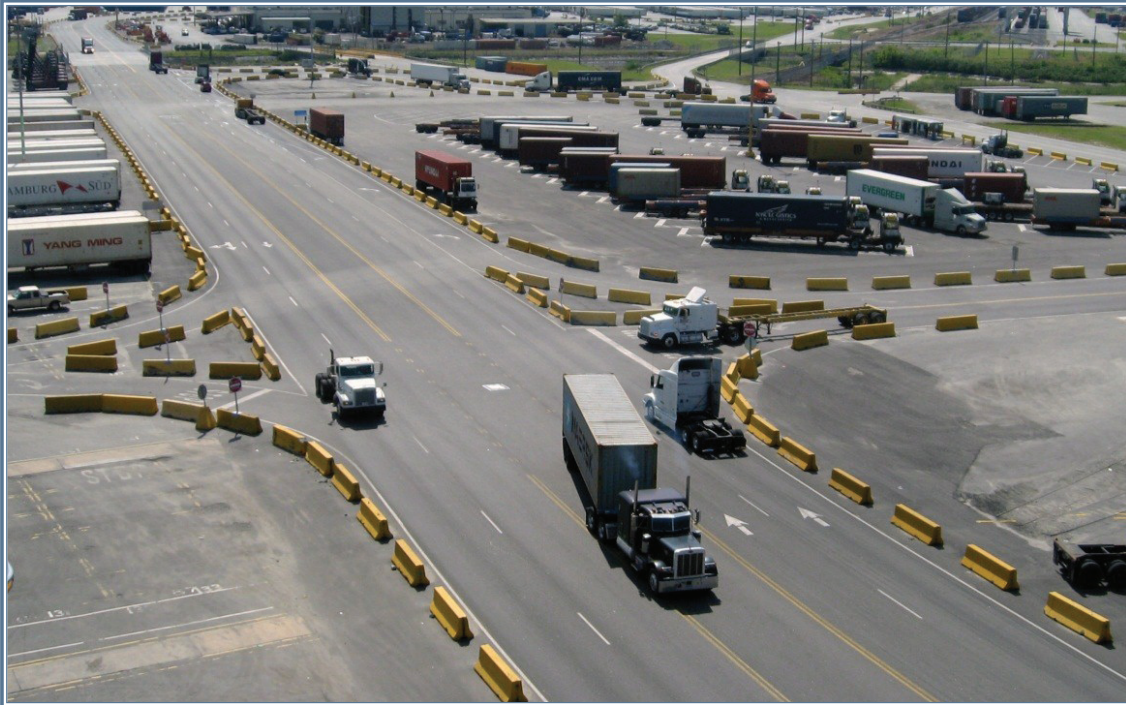


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Cross Terminal Road Design, Savannah, Georgia

Client: Georgia Ports Authority



To provide traffic flow improvements within Garden City Terminal, Moffatt & Nichol provided project management, planning, design, construction document preparation, bid services, and post-construction-award services for a new main roadway corridor providing direct access between the terminal's north and south ends. The new roadway will be approximately 8,500 feet long and utilize a five-lane section comprising four 12-foot-wide travel lanes, a 15-foot-wide center turn lane, and 6-foot-wide shoulders terminating in Jersey barriers. Barriers separate the roadway from the adjacent container yard to the east and terminal support facilities to the west.

For project planning, Moffatt & Nichol provided data gathering and preliminary design, which included topographic surveying and mapping by a subconsultant to identify utility conflicts. Data gathering included a site visit as well as review and interpretation of available information pertaining to existing site conditions. Using these data, Moffatt & Nichol developed opportunities and constraints as the basis for preliminary engineering including verification of site utilities such as manholes, light poles, and fire hydrants.

Preliminary design included initial engineering and schematic layout of roadway corridor; water, stormwater management, and electrical systems; and roadway cross-section and alignment. Moffatt & Nichol also developed an extensive construction phasing plan, temporary traffic control plan for construction, and a final traffic control plan for the completed project.



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Port of Wilmington Berth 8 Replacement, Wilmington, North Carolina

Client: North Carolina State Ports Authority (NCSPA)



Moffatt & Nichol performed an above- and below-water inspection of Berth 8, including wharf structural element sampling and material testing to determine overall material condition assessment. A structural analysis revealed that several of its waterside pile rows were inadequate to support loads associated with new 100-foot-gauge cranes. In addition, the remaining Berth 8 piles were degraded to the point of requiring costly repairs. Because pile repairs would only extend the wharf's services life by approximately 5 years according to STADIUM modeling, Moffatt & Nichol provided potential replacement alternatives, and the

NCSPA elected to replace a 208-foot-wide waterfront section of the entire length of Berth 8, which runs 1,046 feet. The remaining 90-foot-wide landside section width will be replaced at a future date.

Moffatt & Nichol provided design and construction documents for a new pile-supported wharf section using two different superstructure designs dependent upon location: a precast concrete deck panel with a cast-in-place topping slab section supported by concrete bent caps, and a two-way slab section. Both superstructure designs are supported by precast, prestressed concrete piles. The new wharf was designed for 1500 PSF uniform live load, to handle ships up to 70,000 DWT; depth at the berth is -42 feet MLLW. The wharf included a new fender system and mooring hardware as well as crane beams, crane and railroad rail, crane electrical power, and some site utilities. To prolong the wharf's service life, all cast-in-place concrete members subjected to wetting/drying in the tidal zone and all piling utilized a high-strength concrete with low water-cement ratio and a calcium nitrite corrosion inhibitor admixture.

Crane beams were installed at the waterside crane rail, 50-foot-gauge crane rail, and 100-foot-gauge crane rail. These beams support the extremely high loadings associated with the existing 50-foot-gauge container cranes and new 100-foot-gauge container cranes. Any of these cast-in-place concrete members subjected to wetting and drying in the tidal zone were required to contain a calcium nitrite corrosion inhibitor admixture.

During phased construction, Moffatt & Nichol is providing post-construction-award-services involving periodic site visits to observe construction, shop drawing review, and record drawing preparation.

6100



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Chatham Yard Intermodal Container Transfer Facility, Garden City, Georgia

Client: Georgia Ports Authority



Moffatt & Nichol completed the planning, design, permitting, and construction management of a new intermodal container transfer facility (ICTF) at Garden City Terminal. The project was a strategic initiative by the Georgia Ports Authority to replace existing on-dock rail facilities, which bifurcated the container yard and obstructed truck traffic and densification efforts. Planning for the new facilities included close coordination with Norfolk Southern, CSX, and the Georgia Ports Authority to comprehend rail operations, plans for increases in intermodal traffic, and the

overall master plan for Triangle Tract, where the facility would be located.

Preliminary planning included the development of numerous configuration alternatives that met the project objectives and fit within the space constrictions. In addition, preliminary work included the completion of a topographic survey of the 100+ acre Triangle Tract area as well as a formal geotechnical exploration program. A portion of the area where the facility was to be built consisted of an overbank flood zone along an existing drainage canal. Design of the facility included a series of construction packages that involved clearing and grubbing, site grading, installation of wick drains and surcharging, and installation of the facility infrastructure.

The new facility encompasses approximately 32 acres and includes three separate 2,000-foot-long working tracks, a run-around track, and modifications to an adjacent rail storage yard to make switching more effective. Stormwater management elements included a drainage system for the facility, a stormwater management pond, and relocation of an existing stormwater channel that drains the adjacent community to improve drainage.

Other project components included facility paving, continuous reinforced concrete runways for the rubber-tired gantry cranes (RTGs), truck scale, truck gate, lighting, security fencing, and water lines. The design provided for phased construction to maintain rail traffic into and out of the port. In addition, the project required the relocation of a 14-inch-diameter pressurized natural gas main that feeds downtown Savannah, which demanded close coordination with Southern Natural Gas Company, and relocation of an overhead 13.2 kV medium-voltage electrical distribution power line, which demanded coordination with Georgia Power.

5531-28



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Berth 7 Rehabilitation, Port of Wilmington, North Carolina

Client: North Carolina State Ports Authority



Moffatt & Nichol completed planning, design, and construction documents for the rehabilitation of Berth 7, which involved the demolition and replacement of 80,000 square feet of concrete pile-supported reinforced concrete deck wharf to support working loads of 1,000 pounds per square foot.

The replacement wharf comprised a 543-foot-long, 75-ft-wide section and an adjacent 158-foot-long, 258-foot-wide section; the total berth was approximately 700 feet long. The berth design included new 20-inch-square prestressed concrete piles driven between existing pile bents to support a new 18-inch-thick cast-in-place two-way slab. The replacement sections were located along one side of the on-dock warehouse and between the warehouse and craneway, both of which remained operational during berth reconstruction. The design also provided a new pile-supported crane beam for the planned extension of the 50-foot-gauge craneway from the adjacent berth.

In addition to the design, Moffatt & Nichol also provided post-construction-award services, including weekly site inspections.

4,610



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EXPERIENCE SIMILAR PROJECTS

CPZ Architects, Inc.

CPZ has experience with a variety of Projects in South Florida. CPZ Architects has experience with Fire Stations with Emergency Operations Centers, Community Centers, Public Works Fleet Maintenance Buildings, both new and renovated and renovations of existing libraries, Facility Needs Assessments, Space Programming. Our Team is ready and excited to do work for the City of Greenacres. The experience we have gained has provided us with an *understanding of the Owner and the pride of Ownership for your own building and Image*. We will design your project to *function well, provide minimal maintenance has built in flexibility and present an image to both the public and your personnel that is warm and friendly* and integrates into an environmentally sensitive area.



Galt Ocean Mile Library Broward County

As part of our continuing services contract with Broward County, CPZ was asked to renovate a 4,781 square foot existing Reading Center in the Galt Ocean Mile Library. Broward County brought CPZ on board to coordinate space planning with their furniture consultant, coordinate the design and prepare the Construction Documents.

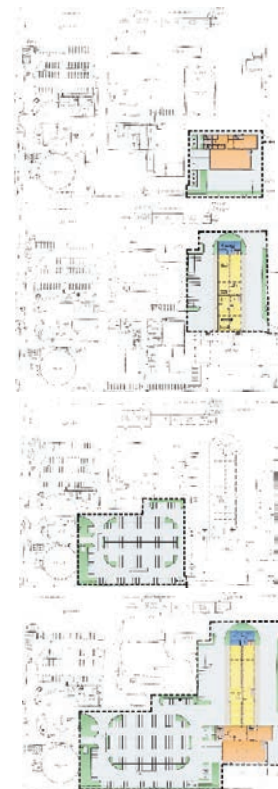


Public Works Building for the City of Coral Springs

The greatest testament to the *quality of our service* can be seen in our *repeat Clients*. CPZ Architects Inc. was retained to provide master planning and harden their Existing Public Works Building for the City of Coral Springs. The existing Public Works Building is a metal building that does not meet current hurricane code. Since this is always a public works facility the city needed to keep this facility in operation. The most economical way to keep this facility in operation is to design a new building in another location on the site. Based on the city's funding and budget the project was designed in phases. CPZ Architects was retained by the City of Coral Springs to produce a Master Plan to redevelopment the entire Public Works Facility



Complex. This included the renovation of the existing 4150 Building for the Public Works Fleet Department, the Central Stores Department, and Fire Administration. In addition, the Public Works Streets, IT, Police, the Communications and Marketing Departments, the city clerk and guard house were also required to be incorporated within the master plan. This required setting up meetings with each department to identify the needs and programming requirement for each of those departments. Primary concerns involved the traffic circulation of both the Public Works Department with the Police Department. Both entities need to remain open and viable during the renovation of the Facility; Public Works for the continued support of City infrastructure and the Police with the life safety issues and responsibilities to the Public. [Richard Michaud \(954\) 345-1165](#)



Port Facilities Maintenance and Operations

CPZ Architects, Inc. was selected to provide design, permitting, planning, engineering and construction administration services for a new facility to consolidate Port Facilities Maintenance and Operations from the current functions that are located within various buildings throughout the Port Everglades campus into a central location. The Project is intended to take place in three phases. The first phase will be the programming phase. The second phase will be the design and preparation of construction documents and permitting phase. The third phase will be the construction of the facility. Contract negotiations have just begun, and we anticipate work to begin in the fall of 2019.

CPZ ARCHITECTS, INC.

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200 N EL MAR DRIVE, SUITE 200, JENSEN BEACH, FLORIDA 34957
(954) 792-8525

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EXPERIENCE SIMILAR PROJECTS



Betty Ferguson Community Center for the City of Miami Gardens.

CPZ Architects successfully completed the Betty Ferguson Community Center for the City of Miami Gardens. This project consisted of a 60,000 sf Community Center with an indoor swimming pool, basketball court, gymnasium, dance studio, classrooms and large meeting room with a stage. As part of this project CPZ Architects worked with the City to develop the master plan for the property. *We were hired by the city of Miami Gardens to take over this project after construction had begun. Our services on this project enabled us to become a continuing services architect for the City of Miami Gardens and helped us obtain the contracts for the remaining phases of the Park, including the perimeter fence and the amphitheater.*



Doral Nature Center at Glades Park

This 25-acre park is currently under construction. The park includes such amenities as: Environmental Nature Center with Exhibit, Meeting, Classroom, Offices and Computer Lab spaces, Exterior Amphitheater, Dock, Pier & Outdoor Stage, Protected Wetlands Areas, Kayaking and Boat Ramp, Picnic & Restroom Pavilions, Tennis, Basketball and Sand Volleyball Courts, Large Multipurpose Field, Nature Trails, Children Playground.

[Barbara Hernandez, Parks and Recreation Director, City of Doral, \(305\) 593-6600](#)



Community Center for the City of Coconut Creek

Chris P. Zimmerman, as Senior Project Manager conducted the community input meeting to develop the program requirements for the new community center for the City of Coconut Creek. He then headed up the design team to design the 36,000-square foot, two story, Community Center and extensive park amenities and cost \$6 million.



Casino Community Beach Complex, Lake Worth

Chris is currently working with the City of Lake Worth to renovate their Casino Community Complex at the Beach. CPZ has been hired to completely renovate the entire complex incorporating new beach access, water features, retail, beach amenities and associated parking. The design team is providing (4) conceptual designs and cost estimates for the renovation, refurbishing and/or new construction of facilities at the City's beach complex. The City's beach complex consists of the City's Casino Building, the pool and supporting facilities and surrounding property. [Juan Ruiz 561-586-1600.](#)



Delray Beach Police Station & City Hall Needs Assessment Study

Similar to the work CPZ is doing with the City of Coral Springs, The City of Delray Beach Police Department hired CPZ to complete a needs and assessment study of their existing Police Department Facilities to determine if the existing building could be renovated or based on the results of the assessment report build a new Police Facility. CPZ Architects has completed a needs assessment of the Delray Beach Police Station outlining their current needs and providing an estimate of the future space needs for the next 10 years. A conceptual master plan was developed for two possible solutions to their space needs along with budgetary estimates. Option 1 included using the existing facility and expanding around the facility along with construction of parking garage. The second option was to construct a completely new multi-story facility on the back part of the site, while maintaining operation in the existing facility. Upon competition of the new facility, demolish the existing facility and construct the new parking garage. CPZ Architects has now been retained to provide a needs assessment for the City Hall and Community Center Site. [Issac Kover, PE 561-243-7341](#)



CPZ ARCHITECTS, INC.

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EXPERIENCE SIMILAR PROJECTS



City of Coral Springs City Hall Programming

CPZ Architects worked with the City of Coral Springs to create program projections, evaluate the prospect of public and private partnerships, and develop a multi-facility redevelopment plan for the relocation of the city's City Hall. CPZ created a questionnaire to review the needs, both present and projected, for each of the city's departments. Utilizing existing building drawings, we created a diagrammatic plan depicting department office layouts and zoning. The City is still working with this information to determine the feasibility of relocating and redevelopment. **Larry Stanearth (954) 344-1014**



Flamingo Gardens Welcome Center, Davie, FL

CPZ provided design services for the Welcome Center at the Flamingo Gardens, a botanical garden and bird sanctuary park in Davie, Florida. The facility will include a Visitors Center, gift shop, restaurant, multi-purpose rooms, and administrative offices and supporting spaces. Site improvements include new parking, site lighting and landscape upgrades. Phase: Schematics Completion: TBD



Fire Station 43 & 95 for the City of Coral Springs

As testament to our experience, CPZ were selected to provide design services to the City of Coral Springs for Fire Station 43 & 95. CPZ Architects completed both Coral Springs new Fire Stations #43 & #95. Fire Station 95 is in an existing park on Lakeview Drive and Fire Station 43 is replacing the existing station on Rock Island Road & Wiles Road in the City of Coral Springs, Florida. The same **prototype station** was used in two separate locations as a means of savings on Design and Construction costs for the City. Design of both new stations reflects the Mediterranean style Architecture predominant in the adjacent residential neighborhoods at both locations. **Both stations were built concurrently and were on time and in budget.**



Fire Station 4 at Flamingo Park in the City of West Palm Beach

CPZ Architects designed the new Fire Station 4 at Flamingo Park in the City of West Palm Beach, Florida. The Fire Station is located at the gateway of one of West Palm Beach's historical communities. Sensitivity and respect for the existing historic residential context greatly impacted the project's architecture. A fire station in the Spanish Mission style was used and has been highly embraced by the City's Commission and the neighboring residences.

MUEngineering

MUEngineers, Inc. was founded in 2010 and provides a full range of structural engineering services, including: structural design, specialty engineering, structural assessments, threshold, special and 40-year inspections, restoration and peer reviews and feasibility studies. MUE has extensive experience in the public sector and have been involved on numerous city and county continuing contracts within the state. Our involvement on these projects have ranged to structural design and engineering of new fire stations, maintenance buildings, administration buildings, park observations walkways, boardwalks, gazebos and restrooms, to the remodel, conversion or restoration of existing structures, such as police stations, sea walls, jetties, piers and park structures.

Project: Coral Springs Fire Stations #43 & #95: Coral Springs, Florida

Agency: City of Coral Springs

MUE Role: Structural engineering services for two, brand-new 7,000 square foot fire stations for the City of Coral Springs. These one-story, three-bayed fire stations were designed to account for the inclusion of a kitchen, dormitory, watch office, communal living space, workout room, meeting rooms and the garage. MUEngineers, Inc. was a member of the team for the City of Coral Springs RFP, as a sub-consultant.

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EXPERIENCE SIMILAR PROJECTS

Project: Clewiston Police Station: Clewiston, Florida

Agency: Town of Clewiston

MUE Role: Structural design centered around renovations to convert an existing structure into a police station. Our services included: steel framing for a roll up door, new interior CMU walls and partition walls, new exterior door openings, and new ADA ramp including foundations, walls and slab on grade.

Project: South Broward Drainage District Maintenance Building: Southwest Ranches, Florida

Agency: South Florida Water Management District

MUE Role: Structural design of a new, one-story maintenance building, a covered parking area and a dumpster enclosure for the South Florida Water Management District continuing services contract.

Project: Westside Maintenance Facility: Coral Springs, Florida

Agency: City of Coral Springs

MUE Role: Structural design for the renovation, redesign and repurposing of the Westside Maintenance Facility, Fire Training Academy and Police Firing Range.

Project: Cosmo International Fragrances: Deerfield Beach, Florida

Agency: Cosmo International Fragrances, LTD

MUE Role: Structural design on the interior remodel of the existing warehouse and office space to house manufacturing, storage, and hazardous materials. The building exterior was also updated and modified to account for new signage and façade.

Project: The Grand Pelican Beach Hotel: Fort Lauderdale, Florida

Agency: The Pelican Hotel

MUE Role: Structural design related to adding supplementary space to the hotel by structurally designing a ballroom addition on the third-floor and an extended recreational deck on the sixth floor.

KAMM Consulting Engineering

St. Lucie county guardian ad litem office t. J.

Downtown Fort Pierce

M/E/FA/FS Specs- 9,000 sq. ft. office tenant improvement.

Clewiston police department renovation

300 South Berner Road, Clewiston, FL 33440

M/E/P - Conversion of an existing 7,181 sq. ft. bank building to a police department

Sheriffs helicopter building

Vero Beach, FL

M/E/P - 13,000 sq. ft. (4,800 AC, 8,200 sq. ft. warehouse/hanger)

Dea facility at courthouse commons

West Palm Beach, FL

M/E/P - LEED for a +/- 32,551 sq. ft. tenant improvement on the 4th and 5th floors of an existing building.

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EXPERIENCE SIMILAR PROJECTS

Bowman Consulting Group

Martin County Capital Projects Department

Representative Project: Martin County Public Safety Complex, Martin County, FL

- Contact: Mr. Randall Saumier / George Dzama, Capital Projects Manager (772)463-2837 gdzama@martin.fl.us
- This 71,700 square foot facility serves as a combined Sheriff and Emergency Services Administration Building. The complex also houses the state-of-the-art County Emergency Operations Center and joint Sheriff and Fire Rescue 9-1-1 Dispatch Center. This "hurricane hardened" facility is built to withstand 190 MPH winds and will provide a safe, central location for key personnel during a hurricane or other disaster.
- Professional fees \$15,300.00
- Construction Costs \$Unknown

Martin County Parks & Recreation Department

Representative Project: Martin County Golf Course

- Contact: Kevin Laundry, Project Manager (772) 221-1376 klandry@martin.fl.us
- Bowman assisted the team in building community consensus regarding the future of the facility was a key part of the work and included a public outreach program with a series of visioning workshops to evaluate alternative master plan scenarios. Additionally assisted in the review of the relevant issues, schedules alternative master plan concepts, conceptual facility master plans in relation to site civil related elements and prepared a general opinion of probable cost.
- Professional fees \$18,790
- Construction Costs \$TBD

Representative Project: Martin County Sailfish Splash Water Park

- Contact: Kevin Laundry, Project Manager (772) 221-1376 klandry@martin.fl.us
- Project includes the site civil engineering for the County Aquatic Center consisting of four pools and associated pool and recreational amenities. Civil engineering services are part of the design-build team with Bayview Construction for Martin County. Design and permitting of site civil engineering features including pool decking and drainage, access roadways and parking, stormwater management conveyance facilities, stormwater storage and treatment, site grading, water and wastewater utilities including coordination between Martin County and the City of Stuart Utilities Departments for the onsite and offsite utility improvements required for the project.
- Professional fees \$90,000
- Construction Costs \$9,000,000

DR Horton

Representative Project: Jensen Village, Martin County

- Contact: Karl K Albertson, DVP Land Acquisitions Phone (954) 949-3072 kkalbertson@drhorton.com
- The project consists of a 61.5-acre site in Martin County, FL containing 130 single family homes and a clubhouse in an age restricted community. The community is the last remaining component of the West Jensen DRI. The project will have gated access entry off US1 on the west side and off Fennel Ave on the east side. The project includes multiple large wet retention ponds and wetlands throughout the project. Portions of the site lie in a flood zone to receive a map revision. There are 7 separate drainage basins within the site and 3 offsite contributing basins. The project was successfully completed and going through final certifications as of February 2019.
- Professional fees \$434,032
- Construction Costs \$4,000,000

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EXPERIENCE SIMILAR PROJECTS

Lucido & Associates



Martin County Emergency Operation Center
City of Stuart, Florida

Environmental Studies Center
Jensen Beach, Florida

Martin County School District
Martin County, Florida

St. Lucie County School District
St. Lucie County, Florida

St. Lucie County Fire District
Fire Rescue Station 3
Port St. Lucie, Florida

Martin County Fire Rescue Station 23
Martin County, Florida

Martin County Aquatics Center
(Design Build)
Martin County, Florida

Martin County Vehicle Maintenance Facility (Design Build)
Martin County, Florida

Martin County Fire Rescue District Fleet Services (Design Build)
Martin County, Florida

City of Port St. Lucie Civic Center
St. Lucie County, Florida

Stuart Transit Depot (Design Build)
Martin County, Florida



Martin County Public Services Building
Martin County, Florida

Harbor Branch/ FAU
Fort Pierce, Florida

Molly's House
City of Stuart, Florida

Mothers with Infants Striving for Success (M.I.S.S.)
Martin County, Florida



www.lucidodesign.com

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EXPERIENCE SIMILAR PROJECTS

CMS (Construction Management Services, Inc.)

Community/Recreation Centers

- Club Med Sandpiper Resort – Spa Building (Port Saint Lucie) – 2011
- New Highlands Community Center (Deerfield Beach) – 2013
- New Doral Community Center with Gymnasium & Running Track (Doral) – 2013
- Scott Rakow Youth Center – Ice Rink Mechanical Repairs (Miami Beach) – 2014
- New Plantation Community Center (Plantation) – 2014

Fire Stations – Public Safety Buildings

- **City of Coral Springs** – Fire Station No. 71 –2006; Fire Station #64 (2007); Fire Station #43 – 2015; Fire Station #80—2008; Fire Station #95 – 2016
- **Fort Lauderdale/Hollywood International Airport** – Aircraft Rescue Firefighting Midfield Station Water Intrusion/HVAC Repairs (Fort Lauderdale, FL) – 2007
- **Seminole Tribe of Florida** – Fire Station #108 Remodel (Hollywood, FL) – 2009; Fire Station #108 Creation of Apparatus Bay (Hollywood, FL) – 2010
- **City of Pompano Beach** – Pompano Beach Public Safety and Fire Administration Building – Exterior Improvements – 2012; Fire Station #24 (Interior Renovation) – 2014
- **City of Fort Lauderdale** – Fire Station #54 (New Building) – 2013-2016; Fire Station #8 (New Building) – 2016-2017
- **Town of Davie** – Fire Rescue Station #86 and Field Operations Center at Shenandoah – 2014
- **City of Coconut Creek** – New Fire Station #50 – 2014
- **City of Parkland** – Fire Station #42 (Building Addition) – 2018

Libraries

- **Broward County** – North Regional Library Entrance Design (Coconut Creek, FL) – 2015
- **City of Boca Raton** – New Emergency Generator for Downtown Boca Raton Library and Spanish River Library (Boca Raton, FL) – 2018

PALM BEACH COUNTY GOVERNMENTAL CENTER (Property Appraiser’s Office)

West Palm Beach, Florida

Contact: Mr. Steven W. Knight, AIA (Mr. Knight worked for Hanson Professional Services, Inc. at time of this project was active. He is now President of AK Architects, Inc.)

Telephone: (561) 374-9242 (AK Architects, Inc.)

CMS was asked by Hanson Professional Services, Inc. of West Palm Beach, Florida to provide Cost Estimating for the County’s Property Appraiser’s Office, 5th floor renovation.

- Scope of Work: Construction Documents Cost Estimating
- Project Size:
 - Phase I Area = 9,500 SF
 - Phase 2 Area = 3,350 SF
 - Phase 3 Area = 2,670 SF
 - Phase 4 Area = 4,840 SF
 - Phase 5 Area = 4,330 SF
 - Phase 6 Area = 4,050 SF
- Total Probable Cost: \$1,386,199.00
- Year of Service: 2002

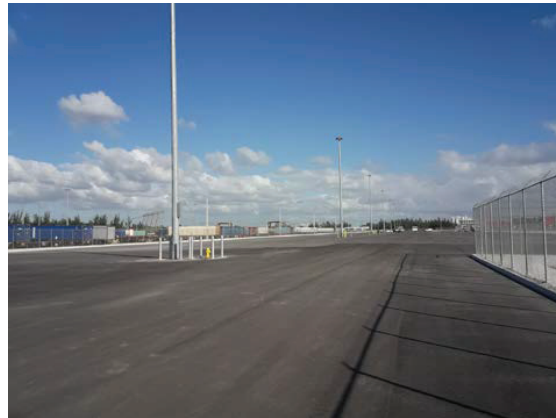


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ENVIRONMENTAL CONSULTANTS
MARINA & WETLAND PERMITTING | PHASE I ESAS | MITIGATION DESIGN & MONITORING | T&E SPECIES SURVEYS



Southport Phase IX-B

***Fort Lauderdale,
Broward County, Florida***

Client:

Broward County Seaport Engineering and
Construction Division
Mr. John Foglesong
1850 Eller Drive, 5th Floor
Fort Lauderdale, FL 33316
(954) 468-0143

Services:

- Environmental Permitting
- Tree Survey
- Phase I Environmental Site Assessment
- Due Diligence
- Construction Inspection Services

Project Start Date: 2015

Southport Phase IX-B included the construction of a new container storage yard within existing uplands included in an existing ± 250 -acre stormwater management system area. The project was approximately 23 acres and located along the Dania Cutoff Canal.

The Chappell Group, Inc. provided all environmental permitting for the project. Necessary environmental permits were obtained from the United States Army Corps of Engineers (ACOE), the Florida Department of Environmental Protection (FDEP), and the Broward County Environmental Protection and Growth Management Department (BCEPGMD). TCG conducted a tree survey and a Phase I Environmental Site Assessment. Additionally, TCG conducted a Due Diligence study to outline the potential vulnerabilities of the site and to provide risk-based adaptation strategies to be used in future planning and development of the site. TCG also performed inspection services during construction.



DELTA G CONSULTING ENGINEERS, INC.

Port Everglades Projects completed by Delta G Consulting Engineers, Inc.

Project #	Description	Company	Contact	Contact
160910	Everglades Park Temp Maintenance Yard	Bridges Everg.	Clint Bridges	(561) 251-0757
160603	Everglades Park	Bridges Everg.	Clint Bridges	(561) 251-0757
160113	Everglades Holiday Park Elec Rehab	WZA	Abass	(954) 552-4123
150819	Everglades Holiday Park Improvements Scope I	Cartaya	Juan	(954) 771-2724
150820	Everglades Holiday Park Improvements Scope II	Cartaya	Juan	(954) 771-2724
131201	Everglades Holiday Park Water Treatment Plant	WZA	Abass	(954) 552-4123
130418	Everglades Holiday Park Ph1/Ph2	WZA	Abass	(954) 552-4123
70907	Everglades HS SBBC	Cubellis/Ft. Lauderdale	Guillermo	(954) 961-6806
70512	Warehouse Re Roofing Port Everglades	Lakdas	Lakdas	(954) 771-0630



CURRENT MUNICIPAL PROJECTS

Client & Job Location: City of Coconut Creek Coconut Creek City of Hall 4800 W Copans Road; Coconut Creek, FL	Service Date: March 2019 Contact: Lou Italico, Public Works 954-973-6780; LItalico@coconutcreek.net
Brief Description of Scope of Work: Subsoil Investigation (SPT borings) to provide foundation recommendations for a patio enclosure at city hall.	
Client & Job Location: City of Deerfield Beach Sidewalks S.E. 2nd Avenue; Deerfield Beach, FL	Service Date: January 2019 Contact:
Brief Description of Scope of Work: Construction materials testing (including proctor and density tests) for newly installed sidewalks	
Client & Job Location: City of Hallandale Roadway Repairs Various Locations; Hallandale Beach, FL	Service Date: 2016-Present 2019 Contact: Charles Clarke 954-588-9844
Brief Description of Scope of Work: Construction materials testing (including proctor and density tests) for newly installed roadway repairs	
Client & Job Location: City of Hollywood Hollywood Watermain Replacement Project 5122 15 th Avenue & Hollywood Blvd; Hollywood, FL	Service Date: 2018 to Present 2019 Contact: Peter @786-365-03065 Joel with Ric-Man Construction 954-552-4454
Brief Description of Scope of Work: Construction materials testing (including proctor and density tests) for newly installed watermain	
Client & Job Location: City of Hollywood Watermain Replacement Project 13-5119 US1; Hollywood, FL	Service Date: 2013-2017 Contact: Jeff @ Giannetti Construction 586-634-7561
Brief Description of Scope of Work: Construction materials testing (including proctor and density tests) for newly installed watermain	
Client & Job Location: City of Hollywood CRA Nebraska Parking Garage 327 Nebraska Street; Hollywood, Florida	Service Date: 2015 to 2019 Contact: Sarita Shamah; sshamah@hollywoodfl.org Jaime Gianoli @ JB Kaller 954 920 5746;
Brief Description of Scope of Work: Geotechnical engineering for a 8-story parking garage including multiple phases of subsoil investigation, "L" pile analysis, etc.	
Client & Job Location: City of Parkland Parkland City Hall Addition 6600 N University Drive; Parkland, FL	Service Date: April 2017 Contact: Sowande Johnson, PD P: (954)757-4144; sjohnson@cityofparkland.org
Brief Description of Scope of Work: Geotechnical engineering including foundation recommendations for city hall addition	
Client & Job Location: City of Coconut Creek Roadway Repair NW 57 th Place; Coconut Creek, FL	Service Date: October 2017 Contact:
Brief Description of Scope of Work: Construction materials testing (including proctor and density tests) for newly installed roadway repairs.	



Vendor Reference Verification Form

Broward County Solicitation No. and Title:

Solicitation PNC2119212P1 Consulting Services for Port Everglades

Reference for: **Keith and Associates, Inc. dba KEITH**

Organization/Firm Name providing reference:

Pinnacle Housing Group

Contact Name: **Timothy P. Wheat** Title: Reference date: **09/04/2019**

Contact Email: **Twheat@pinnaclehousing.com** Contact Phone: **561-627-2820**

Name of Referenced Project: **Pinnacle at Tarpon River**

Contract No. Date Services Provided: Project Amount:
01/01/2013 to 01/01/2016 \$ 20,000,000.00

Vendor's role in Project: Prime Vendor Subconsultant/Subcontractor

Would you use this vendor again? Yes No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

KEITH provided civil engineering design, planning, surveying, utility coordination, and platting services required for the development of the site. The civil designs included a water distribution system, gravity sanitary sewer system, drainage system, off-site roadway improvements to support the site development.

Please rate your experience with the referenced Vendor:	Needs Improvement	Satisfactory	Excellent	Not Applicable
1. Vendor's Quality of Service			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Timeliness of:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Cooperation with:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Your Firm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

KEITH has been Pinnacle's "go to" civil engineering, surveying and planning firm in Broward County since 2002, and that relationship will continue.

THIS SECTION FOR COUNTY USE ONLY

Verified via: EMAIL VERBAL Verified by: _____ Division: _____ Date: _____

All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code.



Vendor Reference Verification Form

Broward County Solicitation No. and Title:

Solicitation PNC2119212P1 Consulting Services for Port Everglades

Reference for: Keith and Associates, Inc. dba KEITH

Organization/Firm Name providing reference:

Invesca Development Group

Contact Name: Chris Longworth Title: CEO & Owner Reference date: 09/04/2019

Contact Email: cl@invesca.com Contact Phone: (954) 445-8675

Name of Referenced Project: Koi Residences and Marina

Contract No. _____ Date Services Provided: 01/01/2012 to 09/09/2019 Project Amount: _____

Vendor's role in Project: Prime Vendor Subconsultant/Subcontractor

Would you use this vendor again? Yes No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

KEITH is providing civil engineering, surveying, planning, landscape architecture and construction administration services. KEITH also prepared the Existing Tree valuation and Tree removal plans.

Please rate your experience with the referenced Vendor:	Needs Improvement	Satisfactory	Excellent	Not Applicable
1. Vendor's Quality of Service			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Timeliness of:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Cooperation with:			<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Your Firm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

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Vendor Reference Verification Form

Broward County Solicitation No. and Title:

Solicitation PNC2119212P1 Consulting Services for Port Everglades

Reference for: **KEITH**

Organization/Firm Name providing reference:

City of Fort Lauderdale

Contact Name: **Jose Custodio, PE, MCE** Title: **Project Manager II** Reference date: **06/18/2019**

Contact Email: **JCustodio@fortlauderdale.gov** Contact Phone: **954-828-5248**

Name of Referenced Project: **Bermuda Riviera Small Water Mains Improvements**

Contract No. **12391** Date Services Provided: **06/26/2018** to **08/01/2019** Project Amount: **\$ 4,000,000.00**

Vendor's role in Project: Prime Vendor Subconsultant/Subcontractor

Would you use this vendor again? Yes No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

KEITH is providing civil, survey, SUE, permitting, bidding support and construction administration services.

Please rate your experience with the referenced Vendor:

	Needs Improvement	Satisfactory	Excellent	Not Applicable
1. Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Timeliness of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Cooperation with:				
a. Your Firm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

THIS SECTION FOR COUNTY USE ONLY

Verified via: EMAIL VERBAL Verified by: _____ Division: _____ Date: _____

All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code.



Vendor Reference Verification Form

Broward County Solicitation No. and Title:

Solicitation PNC2119212P1 Consulting Services for Port Everglades

Reference for: Keith and Associates, Inc. dba KEITH

Organization/Firm Name providing reference:

City of Deerfield Beach

Contact Name: Allen Fathi Title: Assistant Director Reference date: 09/04/2019

Contact Email: Afathi@deerfield-beach.com Contact Phone: (954) 420-5521

Name of Referenced Project: City of Deerfield Beach Continuing Services

Contract No. _____ Date Services Provided: 01/01/2004 to 09/09/2019 Project Amount: _____

Vendor's role in Project: Prime Vendor Subconsultant/Subcontractor

Would you use this vendor again? Yes No If No, please specify in Additional Comments (below).

Description of services provided by Vendor:

KEITH has served as the General Engineering Consultant for the City of Deerfield Beach for over 14 years. KEITH is providing on-going continuing serves as needed including engineering and surveying and mapping services to the municipality. KEITH also provided plan review services.

Please rate your experience with the referenced Vendor:	Needs Improvement	Satisfactory	Excellent	Not Applicable
1. Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Timeliness of:				
a. Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Cooperation with:				
a. Your Firm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

THIS SECTION FOR COUNTY USE ONLY

Verified via: EMAIL VERBAL Verified by: _____ Division: _____ Date: _____

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PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
ROADWAY & UTILITY CONSTRUCTION



Project List

Keith & Associates, Inc.

Project	Name	Client Name			
07810.01	GRIFFIN ROAD & SR 7	FDOT	08700.14	D6 INDIAN CREEK DR, 63 ST-ABBOTT AV	FDOT
07810.02	BROWARD OPERATIONS CENTER	FDOT	08700.15	D6 NW 27 AVE, 79-103 STREETS	FDOT
07810.03	SR A1A BASELINE & RW LINES SWO 65-12	FDOT	08700.16	D6 R 826 @ SR924 & 175	FDOT
07810.04	SE 17TH ST(A1A)	FDOT	08700.17	D6 175 Frontage Rd, Hial Gardens	FDOT
07810.05	SR A1A -HUGH TAYLOR STATE PARK	FDOT	08700.18	D6 NE 125 St & 6 Ave	FDOT
07810.06	SR 814 ATLANTIC BLVD CONTROL MAP	FDOT	08700.19	D6 SR25 Okeechobee Rd, NW 107-116 Wy	FDOT
07810.07	SR A1A - SUNRISE BOULEVARD	FDOT	08700.20	D6 SR5 Okeechobee Rd NW 138 Cl-107Ave	FDOT
07810.08	SAMPLE ROAD SWO 100-12	FDOT	08700.21	D6 In House Support Services	FDOT
07810.09	SR 7(SEMINOLE WAY TO LUCKY ST)	FDOT	08700.22	D6 IN-HOUSE SUPPORT SERVICES BCC	FDOT
07810.10	SR 858/SR811(HALLANDALE BCH BLVD/DIXIE)	FDOT	08700.23	D6 SR826 SUNNY ISLES BLVD	FDOT
07810.11	DEP APPLICATION FOR SR A1A	FDOT	08700.24	D6 SR7 NW 7TH AVENUE	FDOT
07810.13	SR814 & CYPRESS ROAD	FDOT	08700.26	Krome Ave/SW 177 Ave fr S of SW 232 St	FDOT
07810.15	BRIDGE OBSCURED AREAS	FDOT			
07810.16	SHERIDAN ST & ICWW	FDOT	Task Number: 008 TWO-8: 95@NW 95th St		
07810.17	CONGRESS & 10 AVE N	FDOT	08800.02	TWO-8: 95@NW 95th St	FDOT
07810.18	I95: BRIDGE ROAD TO HIGH MEADOW	FDOT	Task Number: 009 TWO 9: Atlantic Av Bridge w/o SR A1A		
07810.19	GRIFFIN RD & ST RD 7	FDOT	08800.02	TWO 9: Atlantic Av Bridge w/o SR A1A	FDOT
07810.21	SR A1A MAINTENANCE MAPS	FDOT	Task Number: 010 TWO 10: SR916 135 St, NW 6Av-Biscayne Bv		
07810.22	SR 816/NW 23RD TERRACE	FDOT	08800.02	TWO 10: SR916 135 St, NW 6Av-Biscayne Bv	FDOT
07810.23	SR 5 SUE IN HYPOLUXO	FDOT	Task Number: 011 TWO 11: SR5 S Dixie Hy @ SW 232 St/127Av		
07810.24	SR 5 SUE IN LAKE WORTH	FDOT	08800.02	TWO 11: SR5 S Dixie Hy @ SW 232 St/127Av	FDOT
07810.25	SR A1A PNC SHEET UPDATE	FDOT	Task Number: 012 TWO 12: SR5 US1, SW 344-244 Sts		
07810.26	SR 823 TEST HOLES	FDOT	08800.02	TWO 12: SR5 US1, SW 344-244 Sts	FDOT
07810.27	RW STAKING SR 811 AT SE 3RD ST	FDOT	Task Number: 013 TWO 13: SR916 135 St		
07810.28	SR A1A RECOVER ADDL CONTROL	FDOT	08800.02	TWO 13: SR916 135 St	FDOT
07810.29	DAVIE BOULEVARD TEST HOLE	FDOT	Task Number: 014 TWO 14: NW 3 Ave/3 Ct		
07810.30	SR A1A TITLE REPORTS	FDOT	08800.02	TWO 14: NW 3 Ave/3 Ct	FDOT
07810.32	SR 814 ADDL PROPERTY CORNERS	FDOT	Task Number: 015 TWO 15: SR 826 from C-8 to NW 67 Ave		
07810.33	I95 AT WEIGH IN MOTION STATION	FDOT	08800.02	TWO 15: SR 826 from C-8 to NW 67 Ave	FDOT
07810.34	SR5 AT PORT ROYALE	FDOT	Task Number: 016 TWO 16: SR25 from NW 107 Av to NW 116 Wy		
07810.35	SR814	FDOT	08800.02	TWO 16: SR25 from NW 107 Av to NW 116 Wy	FDOT
07810.36	SR 710 BEELINE HIGHWAY - 49 TEST HOLES	FDOT	Task Number: 017 TWO 17: SR25 from SW 57 Ave to N Miami		
07810.37	SR 70 @JENKINS SUE	FDOT	08800.02	TWO 17: SR25 from SW 57 Ave to N Miami	FDOT
07810.38	SR 70 @ JENKINS SUE(DANFORTH CREEK)	CREECH ENGINEERS	Task Number: 018 TWO 18: SR9A I95 FROM SR 916 TO BISCAYNE		
07810.39	SAMPLE ROAD	FDOT	08800.02	TWO 18: SR9A I95 FROM SR 916 TO BISCAYNE	FDOT
07810.40	I595 AT I95 PONDS	FDOT	Task Number: 019 TWO 19: SR A1A AT 79TH STREET		
07810.41	SR 845 TEST HOLES	FDOT	08800.02	TWO 19: SR A1A AT 79TH STREET	FDOT
07810.42	POND SITE	FDOT	Task Number: 012 REIMBURSABLES		
07810.43	UPDATE PNC SHEET FOR SE 17ST CAUSEWAY	FDOT	08800.02	REIMBURSABLES	FDOT
07810.44	OLD DIXIE HIGHWAY FULL DESIGN	FDOT	Task Number: 020 TWO 20: SR826 FROM I-75 TO C8 CANAL		
07810.45	SR 7 AT KIMBERLY SWO 27-14	FDOT	08800.02	TWO 20: SR826 FROM I-75 TO C8 CANAL	FDOT
07810.46	SR 7 AT BAILEY RD SWO 27-14	FDOT	Task Number: 021 TWO 21: SR907 Alton Rd		
07810.47	SR 7 AT BAILEY DESIGNATES	FDOT	08800.02	TWO 21: SR907 Alton Rd	FDOT
07810.48	I95 AT I595 RW STAKING	FDOT	Task Number: 022 TWO 22: SR A1A from 18 St to 65 St		
08500.00	D4 IN-HOUSE UTILITY COORDINATION	KIMLEY-HORN AND	08800.02	TWO 22: SR A1A from 18 St to 65 St	FDOT
08500.01	D4 SE 3RD AVENUE	PROTEAN	Task Number: 023 TWO 23: SR9 SW 27 Ave @ SW 27 St		
08500.02	D4 - MIDWAY RD PD&E	INWOOD CONSULTING	08800.02	TWO 23: SR9 SW 27 Ave @ SW 27 St	FDOT
08500.03	D4 DISTRICTWIDE MINOR DESIGN	ERDMAN ANTHONY	Task Number: 024 TWO 24: SR7&9 GGI Various Ramps		
08500.04	D6 SR931-75 NW 148TH ST TO NW 162ND ST	FDOT			
08500.05	D-4 I95/45TH ST INTERCHANGE STUDY PD&E	HANSON PROFESSIONAL			
08500.06	D4 SRA1A 3RD ST TO PB COUNTY LINE	BASLEE ENGINEERING			
08500.07	D4 - CEI SERVICES FOR MIDWAY RD(CR 712)	JOHNSON, MIRMIRAN &			
08500.08	PETERS ROAD FROM PINE ISLAND TO UNIV	BOLTON PEREZ & ASSOC			
08500.09	D4 DIXIE HIGHWAY-SUNRISE BLVD TO NE 20TH	METRO CONSULTING GR			
08500.10	HEFT/NW 57TH AVE INTERCHANGE IMPROVEMENT	THE HEIMBURG GROUP, I			
08500.11	CENTRAL OFFICE RADAR TOMOGRAPHY	CRAIG A. SMITH & ASSOC			
08500.12	D4 -MISC SUE/BOWMAN CONSULTING	BOWMAN CONSULTING G			
08500.13	NE 23RD AVE BRIDGE REPLACEMENT	INFRASTRUCTURE ENGIN			
08500.20	OPEN				
08500.22	95 EXPRESS-CORRIDOR DESIGN CONSULTANT	HDR ENGINEERING, INC.			
08500.25	FDOT D6 KROME AVE. N.#3	AECOM TECHNICAL SERV			
08500.26	SR 80 AT FOREST HILL BLVD	INWOOD CONSULTING			
08500.27	D4 PD&E I95 BRIDGE RD TO HIGH MEADOWS AV	HNTB CORPORATION			
08500.28	RAVENSWOOD BRIDGE REPLACEMENT	BOLTON PEREZ & ASSOC			
08500.38	FT.LAUD NW NEIGHBORHOOD PHASE 3 IMPROVE	STANLEY CONSULTANTS,			
08500.50	HEFT FROM NW 106TH ST TO I-75	TLP ENGINEERING			
08500.53	BROWARD MOBILITY PROJECTS-TWO 12	CONSULTANTS, INC.			
08500.54	SR 810 LIGHTING & SIGNAL PROJECT	HDR ENGINEERING, INC.			
08500.61	SR 710 D/B BEELINE HIGHWAY PD&E C8J97	TRANSYSTEMS			

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
ROADWAY & UTILITY CONSTRUCTION



Project List

Keith & Associates, Inc.

Project	Name	Client Name
09800.01	D6-DESIGN SURVEY AT HEFT AND US 27	FDOT
09800.02	D6-BOUNDARY SVY SR997/KROME AVE	FDOT
09800.03	D6-SR5 SE 5TH TO SE 4TH STREETS	FDOT
09800.04	D6-SR968 FLAGLER ST & W 84TH AVE	FDOT
09800.05	D6-KENDALL DR SW 132 TO SW122AVE	FDOT
09800.06	D6-KENDALL DR SW 152 TO 132AVE	FDOT
09800.07	D6 SR7/NW 17TH STREET	FDOT
09800.08	D6 SR 934 71 STREET MIAMI BEACH	FDOT
09800.09	SR 5/US 1 FROM RIVERIA DR TO SW 27 AVE	FDOT
09800.10	SR 5/US 1 FROM RIVERIA DR TO SW 27 AVE	FDOT
09800.11	SRA1A(WATSON ISLAND)	FDOT
09800.12	SR997 Krome Ave	FDOT
09800.13	SR5 US-1 FROM RIVERIA DR TO SW 27 AVE	FDOT
09800.14	SR5 US-1 FROM RIVIERA DR TO SW 27 AVE	FDOT
09800.15	SFRC (CSX L-38) SKETCH & DESCRIPTIONS	FDOT
09800.16	SR94/KENDALL DR SW 132ND AVE to 122 AVE	FDOT
09800.17	SR826 Palmetto Exway Parcel 712 & 714	FDOT
09800.18	SR9A (I95) Parcel 114 & 115	FDOT
09800.19	SR826 GI ITS Easements	FDOT
09800.20	SR9A TCE for Parent Tracts 114 & 115	FDOT
09800.21	SR93 I-75 Encroachment Survey	FDOT
09800.22	FM 436479-1 Parcels 802 & 803	FDOT
09800.23	Baseline of Survey from NW 39th St to NW	FDOT
09800.24	Surplus Property Parcel 9358	FDOT
09800.25	Surplus Property Parcel 6138	FDOT
09800.26	TWO 26: Baseline of Survey from NW 39th	FDOT
09800.27	SR 5/US 1/Overseas Highway	FDOT
09800.28	BASELINE OF SURVEY FR NW 39 TO NW 79	FDOT
09800.29	Maintenance Map for ST 94/Kendall Drive	FDOT
09800.30	GOLDEN GLADES INTERCHANGE	FDOT
09800.31	R/W CONTROL SURVEY	FDOT
09800.32	Seabird Marina	FDOT
09800.33	Maintenance Map at NW 151st Street	FDOT

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
ROADWAY & UTILITY CONSTRUCTION



LongName	BillingClient Name	StartDate
SR 5 Barrier Wall Installation	Astaldi Construction Corporation	12/04/14
SR 5 Barrier Wall Replacement	Astaldi Construction Corporation	12/11/14
Phase III Traffic Shift	Astaldi Construction Corporation	03/02/15
Phase IV-Traffic Shift	Astaldi Construction Corporation	05/04/15
Ramp Cross-over-SR 528	Astaldi Construction Corporation	06/16/15
Phase 4 Traffic Shift	Astaldi Construction Corporation	08/10/15
Phase 5 Lane Shift	Astaldi Construction Corporation	11/23/15
SR 5 Revised TTCP	Astaldi Construction Corporation	01/19/16
Barrier Wall-Veterans-Astaldi	Astaldi Construction Corporation	03/25/15
Veterans-Astaldi-Phase Shift	Astaldi Construction Corporation	05/21/15
Astaldi I-75 TTCP Modifications	Astaldi Construction Corporation	12/18/15
Astaldi Construction MSA 2017	Astaldi Construction Corporation	06/02/17
SR 528 at Turnpike - Astaldi	Astaldi Construction Corporation	05/26/17
Erosion Control Review and Revisions	Astaldi Construction Corporation	09/15/17
Temporary Traffic Control Revisions	Astaldi Construction Corporation	09/15/17
Bill Tucker Detour	Astaldi Construction Corporation	03/31/18
Temporary Traffic Control Revisions	Astaldi Construction Corporation	02/05/18
SR 528 at Floridas Turnpike	Astaldi Construction Corporation	09/10/18
Wekiva 7A Traffic Control	Astaldi Construction Corporation	12/13/18
FDOT On-Call: Modeling Support including Travel Demand	Cambridge Systematics, Inc.	09/09/16
Peer Technical Review	Cambridge Systematics, Inc.	11/21/16
FDOT On-Call: Training Materials for Modeling	Cambridge Systematics, Inc.	01/12/17
FDOT On-Call: Modeling Support TWO 22	Cambridge Systematics, Inc.	04/27/18
FDOT On-Call: Modeling Support TWO 23	Cambridge Systematics, Inc.	04/27/18
SR 429 West Rd to SR 414	Central Florida Expressway Authority	04/08/19
City of Altamonte Springs Continuing Services	City of Altamonte Springs	10/09/18
Flagler Beach - FDOT MOT Misc Const Assistance	City of Flagler Beach	04/09/19
Flagler Beach - Construction Admin for S 16th and N18th St Dune Walkovers	City of Flagler Beach	04/09/19
Ingram Property Mass Grading Permit	Don Ingram	07/07/17
Disney Springs Traffic Shift - Parking Garage	DPR Construction	03/04/16
SR 15/SR600 (US 17-92) from Lake Mary Blvd of Airport Blvd	Faller, Davis & Associates	08/28/15
Left Turn Lane Addition, SR 514	Florida Department of Transportation	09/17/14
SR 514 - Expert Witness DOC50	Florida Department of Transportation	09/17/18
SR 514 - Expert Witness DOC47	Florida Department of Transportation	09/20/18
SR 514 - Expert Witness DOE57	Florida Department of Transportation	06/10/19
SR 61 (US 319)Thomasville Road from Tallahassee Drive to Timberwolf Crossing	Florida Department of Transportation - District 3	03/04/19
US 1 Post Design	Florida Department of Transportation - District 5	10/13/14
SR 20	Florida Department of Transportation - District 5	10/28/14
I-4 Lighting - 09	Florida Department of Transportation - District 5	09/09/15
SR 400 Post Design Services	Florida Department of Transportation - District 5	09/24/15
Whitaker - DNZ40	Florida Department of Transportation - District 5	06/03/16
Veranda - DNZ53	Florida Department of Transportation - District 5	06/03/16
Route 46 - DNZ94	Florida Department of Transportation - District 5	07/15/16
Butterfield - DO047	Florida Department of Transportation - District 5	07/26/16
Summerbrooke - DO039	Florida Department of Transportation - District 5	07/26/16
Stephens - DO029	Florida Department of Transportation - District 5	07/26/16
Chanilal D. Haria - D0255	Florida Department of Transportation - District 5	01/09/17
Wekiva 3B Post Design	Florida Department of Transportation - District 5	05/10/17
Districtwide Quality Assurance WO #2	Florida Department of Transportation - District 5	02/06/15
Districtwide Quality Assurance	Florida Department of Transportation - District 5	08/18/15
Districtwide Quality Assurance (A5)	Florida Department of Transportation - District 5	05/01/17
Districtwide Quality Assurance	Florida Department of Transportation - District 5	10/18/18
Districtwide Quality Assurance (A7)	Florida Department of Transportation - District 5	04/19/19
SR5	Florida Department of Transportation - District 5	09/30/14
A1A	Florida Department of Transportation - District 5	09/30/14
A1A - Post Design	Florida Department of Transportation - District 5	04/14/17
Coast to Coast Trail - Orange Co. Segment 2	Florida Department of Transportation - District 5	07/04/17

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
ROADWAY & UTILITY CONSTRUCTION



Atlantic Intersections	Florida Dept. of Transportation - District 2	06/11/15
Osceola Resurfacing	Florida's Turnpike Enterprise	03/26/15
Widen Turnpike Mainline with Express Lanes	Florida's Turnpike Enterprise	04/01/16
Vets Expr-Traffic Shift SB at Linebaugh	GLF Construction Corporation	12/22/14
Veterans Expressway-Traffic Shift-NB	GLF Construction Corporation	02/03/15
Epcot Center Drive Utility Work	Gulfcoast Utility Constructors, Inc.	02/12/15
Chelonia Pkwy Utility Work	Gulfcoast Utility Constructors, Inc.	07/14/15
Chelonia Pkwy Barrier Utility Work	Gulfcoast Utility Constructors, Inc.	07/28/15
Backstage Lane Inlet Repair	Gulfcoast Utility Constructors, Inc.	08/24/15
Lake Buena Vista Drive Traffic Control Plan	Gulfcoast Utility Constructors, Inc.	04/27/17
SR 417 Traffic Control Revisions	Hubbard Construction Company	10/19/18
IDrive-Hubbard	Hubbard Construction Company	07/24/15
SR 528 Maintenance of Traffic (MOT) Design	Hubbard Construction Company	03/28/16
Maintenance of Traffic Design, SR 528 Modification	Hubbard Construction Company	09/25/17
Ficquette Road	Mharding Enterprises, Inc.	11/10/14
CFX SR 429 Widening from Florida's Turnpike to West Rd.	Parsons Transportation Group	01/11/19
SR 41 Temporary Traffic Control Modifications	Prince Contracting LLC	10/28/14
SR 41- TTC Detour Plan	Prince Contracting LLC	12/08/14
SR 41 Traffic Shift	Prince Contracting LLC	02/25/15
Traffic Control Shift	Prince Contracting LLC	03/31/15
Whiting Aviation Park - Phase I	Santa Rosa County	01/10/19
Gateway Drive- Rework Brick Pavers	SEMA Construction, Inc.	01/26/15
Waters Ave. Temporary Traffic Control	SEMA Construction, Inc.	11/26/14
TTC- Inspection Updates	SEMA Construction, Inc.	12/18/14
Veterans-SEMA-TTC Waters MSE Walls	SEMA Construction, Inc.	02/03/15
Veterans-SEMA-TTC-Traffic Shifts	SEMA Construction, Inc.	03/17/15
Veterans-SEMA-Traffic Shift-Shoring Towers	SEMA Construction, Inc.	05/15/15
Ramp Shift	SEMA Construction, Inc.	11/20/15
Boggy Creek - Ramp C Transition	SEMA Construction, Inc.	12/10/14
Boggy Creek Lane Shift - Concept #11	SEMA Construction, Inc.	12/10/14
Boggy Creek-Splice Towers 8 & 9 Concept #12	SEMA Construction, Inc.	12/14/14
Ramp D-1 Diversion	SEMA Construction, Inc.	03/02/15
Boggy Creek-Revised SB-SEMA	SEMA Construction, Inc.	03/05/15
Boggy Creek-Sun Detour-SEMA	SEMA Construction, Inc.	06/01/15
SR 417 - Exit 17B - SEMA	SEMA Construction, Inc.	08/26/15
Epcot Drive-SEMA	SEMA Construction, Inc.	06/29/15
JTB Traffic Control	SEMA Construction, Inc.	02/17/16
Selmon West Extension	Sigma Infrastructure Solutions, LLC	03/28/17
CR 484	STV/Ralph Whitehead Associates	10/30/14
SR 35 (Baseline Rd) Design Build	STV/Ralph Whitehead Associates	07/22/15
I-4 Ultimate	TBE Group, Inc. (d/b/a Cardno TBE)	04/06/15
University Bridge Phase II	Toll Brothers, Inc.	11/30/18
Modification to Traffic Control Plans, SR 415, phase 1A	United Infrastructure Group	11/04/14
Maintenance of Traffic Plan Revision, SR 415 Bridge Restriping	United Infrastructure Group	11/10/14
Pea Ridge Connector	Volkert, Inc	01/31/19
SR 35 - Traffic Control	Watson Civil Construction	08/29/16
SR 54 & Gunn Highway TTCP	Watson Civil Construction	03/14/17
Cooper Creek Project - Manatee County	Watson Civil Construction	05/10/17
Phase IIA ATCP - Partial Traffic Switch at Bridge	Watson Civil Construction	05/29/19

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
MARINE INFRASTRUCTURE AND DREDGING



Project	Billing Client Name	Start Date
Old South Wharf Construction Phase	Nantucket Boat Basin LLC	09/04/19
Pier B On-Dock Rail Support Facility Program	HDR Engineering, Inc.	08/26/19
Port of Tacoma - On-Call FCA - TO#10 Pony Dock	WSP USA	08/23/19
Port of Tacoma - On-Call FCA - TO#11 Blair Dock	WSP USA	08/23/19
Port of Tacoma - On-Call FCA - TO#12 East Blair 1	WSP USA	08/23/19
Design of Valemount Marina Cable Mounted Float	BC Hydro	08/23/19
SCYH Boatways Lifting Pier Pile Repair	Santa Cruz Port District	08/22/19
Port Townsend Paper Corporation Pile Assessment	Port Townsend Paper Corporation	08/19/19
Urman Victor Fredericks Red Hook Terminal Annex	Virgin Island Port Authority	08/19/19
T5 Marine Bldg Geotech SD26	Port of Seattle	08/19/19
MRF Barge Cleaning Dock Upgrade - Definition	Hardin St. Marine LLC	08/12/19
Concrete Curb Repair - Gordon A. Finch Molasses Pier	Virgin Island Port Authority	08/11/19
Avila Pier Condition Assessment	Port San Luis Harbor District	08/08/19
GKT Dock Improvements	Colonial Terminals, Inc.	08/05/19
Ghana Fertilizer Complex Marine Terminal	KBR	08/02/19
Everport LA Terminal Modernization Assessment and Comparison	Everport Terminal Services, Inc.	08/01/19
PANYNJ QAD 2019 LGA ILS ALS Piers	Port Authority of New York & New Jersey	08/01/19
NFE-V-22 Port of Luanda LNG Terminal	NFE Management, LLC	08/01/19
NFE-V-22 Soyo Offshore FSRU Terminal	NFE Management, LLC	08/01/19
NFE-V-22 Luanda Power Plant LNG Regasification Terminals	NFE Management, LLC	08/01/19
Task Order 1 - 8 Week Study to Modernize the TTI Terminal	Total Terminals International LLC	07/31/19
Locations and marine facilities LNG export terminal in Bahia Blanca	Pan American Energy	07/29/19
Port of Cleveland Port Infrastructure Development Program Grant	Johnson, Mirmiram & Thompson, Inc.	07/29/19
Covington Terminal Trestle Analysis	Marathon Petroleum Corporation	07/26/19
Harbor Island Waste Export Evaluation	Rolluda Architects	07/25/19
POT On-Call FCA - TO#05 Pier 4	WSP USA	07/23/19
SMT Berths 1-3 Substructure Repair Design (PAC)	Ports America Chesapeake	07/23/19
STV-MN DHS JV Replace Floating Dock USCG Station Michigan City	STV Moffatt Nichol DHS JV	07/18/19
Newport Pier 2020 Rehabilitation	Newport Construction	07/15/19
SedCon Construction Support	Phillips 66 Company	07/12/19
SPRC-Review of Container Terminal CAPEX (Task 100)	Sociedad Portuaria Regional de Cartagena S.A.	07/11/19
Valdez Petroleum Dock Damage Repairs	Petro Star, Inc.	07/09/19
Angel Island Dock	California Department of Parks and Recreation	07/09/19
Delta LNG Marine Facilities FEED	Venture Global Delta LNG, LLC	07/09/19
Temporary Gangway for Lynnhaven Marina Localized Bulkhead Construction	City of Virginia Beach	07/09/19
Dinner Key Marina Rehab Construction Admin	City of Miami	07/09/19
Husky Terminal Exit Gate Truck Turn Analysis	ITS	07/08/19
Westshore Marina District - Final Design of Waterfront Structures	New Port Tampa CDD Holdings, LLC	07/01/19
Port of Seattle - Pier 66 Fender System Alternatives	Port of Seattle	06/28/19
DRP Energy Terminal - Bid Phase Services	Delaware River Partners, LLC	06/28/19
Port Renfrew SAR Marine Facilities - Conceptual Design	Canadian Coast Guard	06/27/19
Cleveland Dock Implementation & Construction Services	Marathon Petroleum Corporation	06/26/19
Port Infrastructure Grant Program - Grant Application Assistance	Maryland Port Administration	06/25/19
SF Giants Pier 48 Egress Walkway	China Basin Ballpark Company, LLC.	06/24/19
Port Manatee Berth 4 Extension Investigation	Stantec Consulting Services, Inc.	06/20/19
Chevron Eureka - Repair Construction Support	Chevron Products Co.	06/19/19
UA Tide Point Wharf Repairs	Under Armour	06/19/19
SSA - Pier J North	SSA Terminals	06/17/19
T5 Marine Building Design	Port of Seattle	06/17/19

PAST PERFORMANCE: ACTIVE AND COMPLETED PROJECTS RELATED TO MARINE INFRASTRUCTURE AND DREDGING



Tampa Dock Repair Permit Drawings	Marathon Petroleum Corporation	06/14/19
Carnival Long Beach Cruise Terminal Permitting Support	Carnival Corporation	06/12/19
Estudio Calado Terminal Multiproposito	OXIQUM	06/12/19
Design of State Pier Offshore Wind Terminal	North East Offshore, LLC	06/10/19
Cold Ironing/Shore Power Capabilities, Berths 7-10, Dundalk Marine Terminal	Maryland Port Administration	06/10/19
TAMT Projects Program - San Diego Unified Port District	San Diego Unified Port District	06/07/19
Conceptual Study for the Guayama LNG Terminal	AES Puerto Rico	06/06/19
DMT Berths 1-3 Soil Boring, Dredge Material, Physical Testing	Maryland Environmental Service	06/05/19
OCPW Structural Analysis of D02 Talbert Channel Sheet Piles & Repair Recommendations	County of Orange / OC Public Works	06/03/19
Pier 94 Report Review	Pler 92/94 LLC	06/03/19
Browns Wharf Livaboard Marina Concept Development	Dockholm, LLC	05/30/19
Nashville Pontoon Saloon Marina	Pontoon Saloon	05/29/19
GTL Americas Dock Facilities	GTL Americas, LP	05/28/19
ADM - Port of Santos - design rail dumper capacity increasing	ADM - Port of Santos	05/28/19
Newport Beach American Legion Bulkhead Repair	City of Newport Beach	05/27/19
Alamitos Bay Marina - Basin 1 Dock and Pile Inspection	Bellingham Marine, Inc.	05/27/19
Análisis para Ubicación Óptima Terminal SPM	Pan American Energy	05/22/19
Power Quality Study, Military Ocean Terminal Concord, CA	USACE, Sacramento District	05/17/19
PANYNJ QAD 2019 Port Elizabeth Berths 88-98 Routine Inspection	Port Authority of New York & New Jersey	05/16/19
Berthing & Mooring MOTEMS Upgrade	Vopak Terminal Los Angeles, Inc.	05/13/19
Eagle Rock - Berth D44 Dredging	Eagle Rock Aggregate Inc.	05/08/19
Port of Tacoma - NIM Stormwater Bypass Pipe	Port of Tacoma	05/06/19
Ports America Husky Capacity Analysis	Ports America	05/06/19
Johnson Pier Improvements	San Mateo County Harbor District	04/30/19
P66 Freeport Mid-Stream 408 Additional Levee Support	Phillips 66 Company	04/29/19
P66 CRMT On-Site Construction Support	Phillips 66 Company	04/25/19
POT On-Call Marine Structures FCA Services	WSP USA	04/24/19
Seaport San Diego - 2019 Services	Protea Waterfront Development	04/23/19
Estudio de Oleaje y Respuesta de Buques de Terminal Mollendo	Monte Azul	04/23/19
Port Covington Waterfront Master Planning	Baltimore Urban Revitalization, LLC	04/22/19
Sargent's Wharf Feasibility Study	HR&A Advisors, Inc.	04/18/19
Yakutat Waterfront Facilities: Small Dock: Topside and Under-Pier Inspections	City of Yakutat	04/15/19
Evansville Dock Repairs	Marathon Petroleum Corporation	04/11/19
King County HI Wharf Damage Assessment	Rolluda Architects	04/09/19
Harbour Village Marina	Harbour Village Marina	04/04/19
Newport Pier Building Platform	City of Newport Beach	04/03/19
Port of Cleveland General Cargo Terminal Main Gate Improvements	Johnson, Mirmiram & Thompson, Inc.	04/03/19
POLA B226-236 Misc. Construction Support	Port of Los Angeles	04/01/19
DOW Pittsburg Wharf - Composite Pile Installation	DOW Agrosociences, LLC	04/01/19
Construction Services, Floating Docks Replacement, USCG Sector Long Island Sound	Infrastructure Engineers, Inc.	04/01/19
PAPA Water Street Wharf Inspection	WCMRC	03/28/19
Port Manatee Cargo Yard Expansion	Stantec Consulting Services, Inc.	03/26/19
Roatan Cruise Pier	Carnival Corporation	03/26/19
Waterfront Loading Dock Investigation	Wanchese Seafood Industrial Park Authority	03/25/19
Khafji Marina	Khatib & Alami – Consolidated Engineering Company	03/25/19
Johnson Pier Pile Replacement	San Mateo County Harbor District	03/22/19
Evansville Dock Assessment	Marathon Petroleum Corporation	03/21/19
Berth 1 Collision Damage Repair - CSS (Ports America)	Ports America Chesapeake	03/19/19
CCZJV-GPX Golden Pass LNG Technical Support	CCZJV-GPX	03/18/19
Bradford Marine Shipyard and Marina Redevelopment	Bradford Marine	03/18/19
Pier 15N NLON (Phase 2)	NAVFAC Mid-Atlantic	03/15/19

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
MARINE INFRASTRUCTURE AND DREDGING



PTB Berth 213 Vault Lid Repairs - Additional Services	Port Tampa Bay	03/14/19
Dredged Material Dispersion Analysis for Carnegie Plat Pier	Maryland Port Administration	03/12/19
Andalusian Energy Port of Brownsville	Andalusian Energy	03/11/19
PTB Berth 211 Add Svcs. and CSS	Port Tampa Bay	03/11/19
Ocean Transport Barge Berth Study	Newport News Shipbuilding	03/06/19
Lake Charles LNG East and West Berth Evaluation	BG Lake Charles Operations, LLC	03/04/19
DP World - Berth 6 Inspection and Repair of Concrete Spalls at 5+00	DP World Vancouver	03/04/19
DP World Vancouver - Fender Damage Inspection at Berth 6-390m	DP World Vancouver	03/04/19
Port Freeport Berth 8 Construction	Port Freeport	03/04/19
Wood River Dredging	Marathon Petroleum Corporation	03/04/19
Kiewit Calcasieu Pass LNG EPC Support - Floodwall Overtopping Analysis	Kiewit Corporation	03/01/19
Pier 48 Fire Egress Walkway - Concept Design	Power Engineering Construction	02/26/19
Alternativas de Nueva Infraestructura Terminal Portuario Matarani	Tisur	02/25/19
PORC Fishing Pier	Port of Redwood City	02/21/19
POLC Berth 9 Rehabilitation	Port of Lake Charles	02/20/19
Mooring & Berthing Assessment - A.E. Abramson Marine Facility	Virgin Island Port Authority	02/18/19
Nelson Lagoon Dock Repairs	Aleutians East Borough	02/15/19
Newport Master Planning Grant Research	Newport Construction	02/15/19
495NEXT P3 Commercial Services Technical Support	H. W. Lochner, Inc.	02/12/19
T5 berth mod SD23	Port of Seattle	02/05/19
SFBP Wharf Feasibility	San Francisco Bar Pilot	02/01/19
Treasure Island Ferry Terminal Design Build Engineering Services	Power Engineering Construction	02/01/19
Viking River Cruise - Baton Rouge Dock	Viking River Cruises	01/30/19
HRPT Pier 97 Design	Melk Urban Design	01/28/19
MPC Marine Repair Facility Dock Upgrades	Hardin St. Marine LLC	01/24/19
Mears Point Marina Due Diligence Assessment	Klein Enterprises	01/23/19
PHA Bayport East End Work Package 1	Lockwood, Andrews & Newnam, Inc.	01/22/19
TO 02_PANYNJ 2018-2021 Port Planning	Port Authority of New York & New Jersey	01/22/19
Mount Vernon Dock Improvements Phase 2	Marathon Petroleum Corporation	01/17/19
Análisis y Proyección del Comportamiento del Mercado Naviero en el Puerto de Coahuila	Ultramar	01/16/19
Construction Document Modification and Construction Support Services - Christened Seaplane Facility	Virgin Island Port Authority	01/16/19
Dock Structural Repairs	NC Division of Marine Fisheries	01/11/19
WA State Parks - On Call Marine Engineering and Permitting Services	Washington State Parks Commission	01/07/19
SSAT Terminal Dolly Pad and pavement repair support	Stevedoring Services of America	01/07/19
Berth 201 Concrete Repairs	Port of Tampa	01/06/19
NFE San Pedro de Macoris FSRU Offshore Terminal	NFE Management, LLC	01/04/19
NFE Angola Port of Luanda LNG Terminal	NFE Management, LLC	01/04/19
Washington State Parks and Recreation On Call Marine Engr and Permitting	Washington State Parks & Recreation	01/04/19
Alcatraz Cruises Timber Dock Assessment	Alcatraz Cruises	01/01/19
Pier 2 Extension Fitness of Purpose	Quonset Development Corporation	01/01/19
NAVFAC SW - P443 MLCON Planning Validation Pier 6 Replacement	MN&DPI JV	12/18/18
Laem Chabang Port Terminal F Concept Design Review	AURECON CONSULTING (THAILAND) CO., LTD	12/18/18
MOTI McMillan Dock Removal Study	BC Ministry of Transportation & Infrastructure (MOTI)	12/17/18
WSF Terminal Design Manual Update	Washington State Ferries	12/16/18
Dry Dock Flood Protection Improvements (P-653, FY 20), DD 1-4, NNSY	MN+BMcD	12/14/18
Annova LNG Dredging Estimate	Black & Veatch Corporation	12/12/18
PHA Bayport Terminal East End Planning and Design	Lockwood, Andrews & Newnam, Inc.	12/10/18
Terminal 5 SD 22 Design and PM support	Port of Seattle	12/07/18
Port Freeport Underwater Inspection 2018	Port Freeport	12/07/18
Mozambique LNG Dredge Volume Analysis	Anadarko Petroleum Corporation	12/07/18
Stearns Wharf Load Rating Report	City of Santa Barbara	12/01/18

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
MARINE INFRASTRUCTURE AND DREDGING



Cleveland Dock Inspection	Marathon Petroleum Corporation	11/30/18
San Francisco Ferry Terminal Ferry Collision Inspection & Repair	Golden Gate Bridge Highway & Transportation District	11/26/18
China Basin Landing Wharf	McCarthy Cook	11/26/18
Columbia Pacific Advisors Pier Condition Assessment	Columbia Pacific Advisors	11/26/18
Manga Berth 7-9 Load Capacity Studies (WO93)	Sociedad Portuaria Regional de Cartagena S.A.	11/26/18
Pier T Fender Concept	SA Recycling	11/18/18
Lake Murray Marina Berth Extension Letter Report	Spyglass Equities	11/16/18
Pier 2 Extension Construction Phase	Quonset Development Corporation	11/16/18
RGLNG Dredge Material Transport Feasibility	Next Decade, LLC	11/13/18
Port of Anchorage - Litigation Support Cost Estimating (Phase 2)	Seyfarth Shaw LLC	11/13/18
PTB Berth 267 Repairs	Tampa Port Authority	11/12/18
Gibson Wharf Reconstruction	Canada Fisheries & Oceans	11/07/18
Nautilus Port of Stockton Data Barge - Phase III	Nautilus Data Technologies	11/05/18
DRP Energy Terminal - Final Design	Delaware River Partners, LLC	11/05/18
Pier 32 Replacement (P-898), NSB New London	MN - FST	11/02/18
GPA 2019 Dredging Program	Georgia Ports Authority	11/01/18
Doha Cruise Terminal Movement Planning	Hassel Studios	10/31/18
DOW Aratu - Construction Support Services	The Dow Chemical Company	10/29/18
SVS USACE LA District Dredging VE Study	Strategic Value Solutions, Inc.	10/25/18
NFE-V-08-Puerto Rico MFHF Construction Support Services	NFE Management, LLC	10/25/18
Port of San Francisco – Concept Design of Crane Barge	Port of San Francisco	10/22/18
Clarkson Dock – Dredging Study	Petro-Canada Lubricants Inc.	10/17/18
NOAA Pier Repair	Ahtna Engineering Services, LLC	10/17/18
Redondo Beach Harbor Patrol Floating Dock Replacement	City of Redondo Beach	10/15/18
Level Green Lakes Dredging - WO1A	City of Virginia Beach	10/08/18
Kings Lake South Dredging - WO2A	City of Virginia Beach	10/08/18
NFE-V-07-Baja-Mexico-Puerto Pichilingue LNG Terminal	NFE Management, LLC	10/08/18
Ketchikan Berth 3 Repairs – Vigor Warranty Support	City of Ketchikan	10/05/18
Marine Group Boat Works NatCity Floating Drydock Berth	Marine Group Boat Works	10/01/18
Avila Pier Reconstruction Assessment	Port San Luis Harbor District	10/01/18
Cronus - Texas Offshore Oil Terminal	Cronus Technology, Inc.	10/01/18
Dinner Key Marina Rehabilitation RFP	City of Miami	10/01/18
Terminal Ilo - Maximum Mooring Capacity	Consorcio Terminales	09/27/18
NNSY - Replace Dry Dock #2 Caisson	MN+BMcD	09/27/18
NAVSTA Norfolk - P095 Replace Submarine Pier 3	MN+BMcD	09/27/18
Pier 1 - Vessel Ramp Damage Bollard 19	Quonset Development Corporation	09/27/18
Mt Vernon Dock Improvements	Marathon Petroleum Corporation	09/26/18
PALNG Marine Facilities Cost Estimate Update	Port Arthur LNG, LLC	09/24/18
Clarkson Dock - Trestle Remediation Conceptual Level Study	Petro-Canada Lubricants Inc.	09/17/18
Cox Creek DMCF Capacity Recovery Engineering Consulting Support (10072-06)	Maryland Port Administration	09/11/18
Mt. Vernon Dock Float Replacement	Marathon Petroleum Corporation	09/11/18
Multi-Mission Dry Dock #1 PNSY	Stantec Consulting Services, Inc.	09/10/18
COB Squalicum Pier	City of Bellingham	09/10/18
X-Ray Wharf Improvements, Berth 2 (P-519, FY15)	MN&DPI JV	09/10/18
Sunseeker Marina - Concept, permitting, and design	Point Charlotte Development	09/10/18
POLC Berths 4,5 and 6 Mooring Upgrade	Port of Lake Charles	09/03/18
Imperial Beach Pier WFI	Unified Port of San Diego	09/03/18
Mauritania LNG Ports Evaluation	Granherne Inc.	08/28/18
Loading Unloading Ramp; Repair Barge Pier; Small Craft Berthing Facility	USACE, Sacramento District	08/28/18
Port Arthur Marine Facilities Owner's Engineer	Port Arthur LNG, LLC	08/23/18
POSF MSA - 16 - Pier 70 NPO	Port of San Francisco	08/23/18

PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
MARINE INFRASTRUCTURE AND DREDGING



Special Project Rm 14-1420, Repair Lima Wharf	MN&DPI JV	08/21/18
Marina del Rey Seawall Repair and Mitigation Study	Los Angeles County Department of Beaches and Harbors	08/20/18
DMT Berths 7-10 Reconstruction Study	Maryland Port Administration	08/20/18
Bucksport Marine Park, Phase I Implementation	Santee Cooper	08/20/18
Port of Galveston - Channel and Waterfront Development Support	Port of Galveston	08/13/18
EBDG - TXDOT Ferry Facilities Support IDIQ	Elliott Bay Design Group, LLC	08/13/18
Andrade Gutierrez - New Pier AGE0 - Conceptual development	AG (Andrade Gutierrez São Paulo) [São paulo São Paulo]	08/10/18
Port MacKenzie Dock Repairs CM Services	Matanuska-Susitna Borough	08/06/18
Thorne RD Off Dock Container Yard and Stormwater	Port of Tacoma	08/06/18
Port Nassau Cruise Berth Study	Carnival Cruise	08/01/18
Navigation Assessment - Crown Bay North Berth	Virgin Island Port Authority	08/01/18
PAC - SMTBerth 1 Collision Damage	Ports America Chesapeake	08/01/18
Above-Water Structural Inspection at Berths 22, 24 & 31	Port Tampa Bay	07/30/18
Design of Structural Repairs at Berth 22	Port Tampa Bay	07/30/18
Design of Structural Repairs at Berth 24	Port Tampa Bay	07/30/18
Design of Structural Repairs at Berth 31	Port Tampa Bay	07/30/18
Pier 1 Conditional Assessment	Quonset Development Corporation	07/30/18
Nutrien Kenai Bulk Dock Retrofit	Nutrien	07/23/18
Design-Build Services for Replacement of Fender Systems & Scour Protection at Cape Bay Bridge & Marine Parkway Bridge MPA Dredging & Coastal Engineering Consulting Services	H&L Contracting	07/18/18
TO1-DMMP Technical Support	Maryland Port Administration	07/18/18
TO2-Poplar Island Construction Support	Maryland Port Administration	07/18/18
Gebze Terminal Development Project	YILPORT HOLDING	07/16/18
Delta Coves Dock Design	SDC Delta Coves LLC	07/16/18
NAVFACPac P214 Drydock Waterfront Facility (DBB)	MN&DPI JV	07/16/18
Port of Corpus Christi - Channel Improvements Support	Port of Corpus Christi	07/15/18
Port of new London evaluation	Orsted	07/13/18
Ketchikan Berth 1&2 CP	City of Ketchikan	07/10/18
Fuel Pier Construction - MCAS Iwakuni	Pond & Company, Inc.	07/10/18
POLC Berth 9	Port of Lake Charles	07/09/18
TTI Terminal Planning Study	Total Terminals International LLC	07/02/18
Cleveland Dock Improvements Definition	Marathon Petroleum Corporation	07/02/18
Baltimore Plan Bulk Handling Marine	U.S. Gypsum Company	07/01/18
Massey's Ditch Maintenance Dredging Project (DNREC)	DNREC (Delaware Department of Natural Resources & Environme	06/26/18
Terminal Eten - Pipeline Protection	Terminales del Peru	06/25/18
PANYNJ Berth 25 BH Stage III/IV	Port Authority of New York & New Jersey	06/21/18
Santa Monica Pier Assessment and Retrofit Upgrades	City of Santa Monica	06/18/18
Tiburon Dock for Paradise Builders	WRA, Inc.	06/12/18
Provincetown Marina Pier Evaluation	Provincetown Marina	06/11/18
T5 Bert Mod SD 19 Rail support	Port of Seattle	06/11/18
PAC - New Transporter/POV Parking Area	Ports America Chesapeake	06/06/18
Long Island Point Terminal	ExxonMobil Development	06/06/18
NFE-T-01-Jamaica-Mobay Berth 1 Expansion	NFE Management, LLC	06/04/18
Manor Riverwalk - Design of Multi-Use Floating Dock	RD 202 Parker, LLC	06/04/18
NFE Puerto San Carlos LNG Terminal - Preliminary Engineering Services	NFE Management, LLC	06/04/18
Metroport - Structural Inspection	Port Tampa Bay	06/01/18
Seton Lake Public Dock Upgrades - Phase 2	BC Hydro	06/01/18
Dry Dock Repair Planning Study, NSB Kings Bay, GA	Burns & McDonnell Engineering Company, Inc.	06/01/18
Colonial Cement Unloader Berth Design	Colonial Terminals, Inc.	06/01/18
Pier 66 Marina	Tavistock Development Company	05/30/18
DOW Pittsburg Wharf Obeservation	The Dow Chemical Company	05/29/18

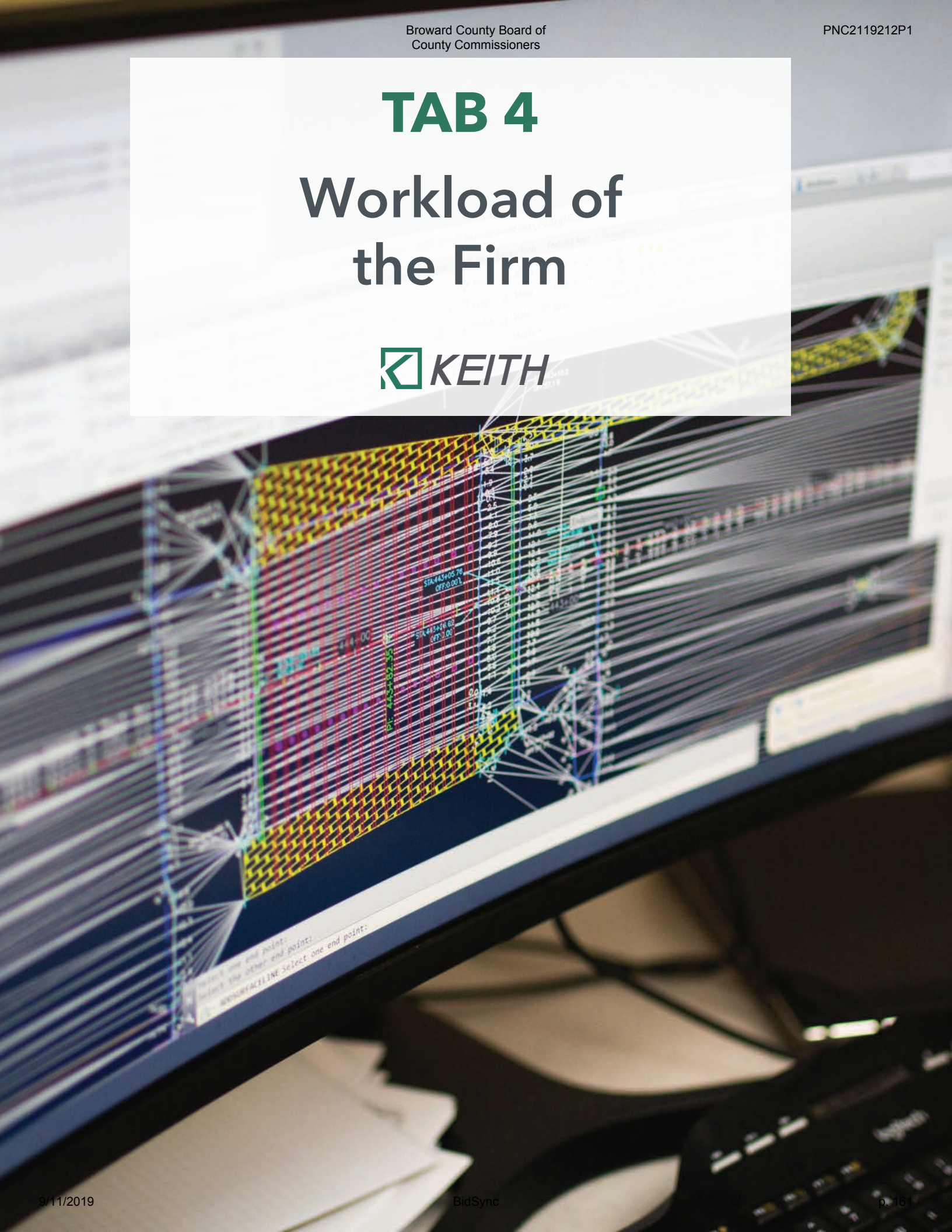
PAST PERFORMANCE:
ACTIVE AND COMPLETED PROJECTS RELATED TO
MARINE INFRASTRUCTURE AND DREDGING



Sunseeker Resort Port Charlotte Bulkhead	Point Charlotte Development	02/15/18
HRPT Pier 98-99 Engineer of Record	Hudson River Park Trust	02/13/18
EMS - Primary Marine Building Demo. & Elec. Substation Relocation	Fenix Marine Services, Ltd	02/13/18
Marina Market Feasibility Study - Baltimore Marine Center	War Horse Cities, LLC	02/13/18
Port of Anchorage Cost Estimating Services Phase 2	Seyfarth Shaw LLC	02/12/18
Mooring & Berthing Assessment for Cruise Ship Acceptance Pier 27 and Pier 25	Port of San Francisco	02/12/18
SFPD Dock Replacement	Port of San Francisco	02/08/18
Redondo Beach Sport Fishing Pier Design and Permitting	City of Redondo Beach	02/05/18
Newport MSA - 2018 -03	Realty Operations Group	02/05/18
Newport MSA - 2018	Newport Construction	02/05/18
Tiburon Wharf Walkway Repair	Town of Tiburon	02/02/18
POLA B161 Marine Ways Construction Support	Port of Los Angeles	02/02/18
Santa Cruz Port Dredging White Paper	Santa Cruz Port District	02/01/18
Hillsborough County Marina Site Feasibility	Wilder Architecture	02/01/18
SMCHD Pillar Point Launch Ramp Dredging	San Mateo County Harbor District	01/31/18
SSAT POLB Pier J ERTG	Stevedoring Services of America	01/30/18
Haulover Marina Fuel Dock	Westrec Companies	01/30/18
A Dock Geotech Services	Port of Anacortes	01/29/18
MPL St. James Dock 1 Study	Marathon Petroleum Corporation	01/24/18
Vopak Corpus Christi Liquids Berth	Vopak North America, Inc.	01/23/18
B St. North Berth Fender Replacement	San Diego Unified Port District	01/22/18
Dow Pittsburg Wharf 2018 Inspection	The Dow Chemical Company	01/19/18
POLB Drafting & Geotech Support	Port of Long Beach	01/17/18
PF&TC - North Terminal Rail Permitting Support	Petroleum Fuel & Terminal	01/15/18
NNSY - Dry Dock 4 Renovation	MN+BMcD	01/14/18
POLB Pier G Wharf Electrical Support	Port of Long Beach	01/11/18
NS Mayport Destroyer Slip South Quay Wall Restoration	STV-BRPH JV	01/09/18
DOW Aratu Dock	The Dow Chemical Company	01/09/18
ICA Terminal Chimbote - Ultramar (CONFIDENTIAL CLIENT)	Ultramar	01/08/18
Newport Wave Fence Rehabilitation	Realty Operations Group	01/04/18
TO 01_PANYNJ 2018-2021 Port Planning	Port Authority of New York & New Jersey	01/01/18
Port Tampa Bay GEC 2018 - 2021	Port Tampa Bay	01/01/18

TAB 4

Workload of the Firm



WORKLOAD MANAGEMENT

KEITH manages its long and short-term workload through a policy of proactive management and resource/ personnel sharing. Our diverse staff wear many hats; we have committed to the time and energy required to meet the schedule requirements of similar contracts in the past and continue to be committed in providing unparalleled service to this contract. Delays are contained and minimized through routine weekly department/ project meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction guarantees our Teams have those discussions to deliver the projects successfully. Given our current and projected workloads, KEITH and our Subconsultant Team can and will provide the personnel and resources to exceed the expectations of the County for this contract.

KEITH has the administrative know-how and the staff to manage large and small work authorizations, the management skills and the technical expertise to ensure top quality is always delivered to Broward County. Given our current and projected workloads, KEITH and its Subconsultant Team can and will provide the personnel and resources required to service Broward County for this contract. Ms. Dodie Keith-Lazowick, PSM, as the Client Resource Officer, will ensure that adequate office and field personnel are always available as needed for this contract. In 2018, KEITH increased its overall staff by 15%, significantly creating more capacity at all levels within the firm. KEITH is constantly monitoring this number to ensure the proper staff is always available for Clients like the County at a moment's notice.



An example of schedule challenge, that KEITH properly and pro-actively managed, was on the FLL Runway 10R/28L Airport Expansion Project which included relocation and upgrade of the existing water distribution and sanitary sewer force main utilities surrounding the runway improvements as well as coordination with all utility stakeholders. The original design concept provided for a single design package for the 24" water transmission main and 16" Sewer Force main. When BCAD determined particular phasing requirements for the project, it was established the entire South Runway Expansion Project schedule would have to be delayed unless the utilities could be expedited. Given these critical path scheduling concerns of the overall runway project and at the request of the AEP and CIP Director, KEITH was able to transform our current Project Work Plan to exponentially expedite all remaining tasks. The team identified and prioritized phases and separated segments of the overall utility line improvements into eight (8) separate design packages with four (4) demolition design packages. In total, there are more than 19,000 feet of new force main and water main improvements with most of the water main pipe at 24-inch diameter and the majority of the force main at 16-inch diameter.

KEITH expedited all design packages, coordinated with contractors and worked closely with the jurisdictional agencies to expedite both the permitting, certification and line activation authorizations. These design packages were fast tracked through all stages of execution and permitting, resulting in BCAD recouping over six months of critical schedule creep for the overall Runway Expansion Program. Our design of the South Water Main and grading of South Perimeter Road allowed for the salvaging of over 3,600 feet of existing force main that may otherwise have needed to be replaced due to insufficient ground cover.

Given the resources and management levels required, few firms could have matched this shift in schedule midway into a project. KEITH and its Subconsultant Team can and will provide the personnel and resources required to service Broward County for this contract.

KEITH – 5 Year Concurrent Project List History

02052.07 Health Center	07282.52 Bishop's Pit - QA Services	07958.23 FLL T2 Bumpouts
02052.14 JKV Additional Parking	07282.53 Lox Road Sidewalk Ext	07963.03 Sheltair Ramp Expansion
02052.20 JKV Master Stormwater Mgmt Plan	07282.56 87th Avenue Sidewalk	07963.04 Pompano Hangers 26 & 27
02105.06 Downtown Davie Student Housing	07282.57 Emergency Signal	08128.02 950 E. McNab
02105.10 Downtown Davie-Driveway Restoration	07282.58 BBB Ranches Subdivision - WM	08130.00 D4 Oakland Park Blvd
03004.07 Parkland Commons Restaurant	07282.60 Ranches Ditch	08155.00 Lynn University
03023.04 Pompano Beach Library	07282.63 Parkside Drive Cross-Walks	08156.00 I-75 Express
04039.06 Sabbia Beach - 730 N. Ocean Blvd.	07282.65 City Hall Building Dept Expansion	08156.01 I-75 Utility Coordination
04046.02 Pompano Commerce Center	07282.66 Parkland City Hall Bldg Exp	08156.02 I-4 Interchange RS&H-FTE
04065.31 3rd Ave	07282.74 Ranches Drainage Survey	08229.00 Wedgewood Cove
04065.45 Highlands Park	07406.01 WTP1A-Floridian Well	08297.00 STOF
04065.46 Dockside Restaurant The Cove	07422.00 Wilton Manors Trailer Park	08310.00 Pinnacle at Tarpon River
04065.50 Ocean Hotel Sidewalk &	07463.04 My Storage Bin	08318.00 Miami Fire Station 14
04065.51 3rd Avenue CEI	07470.15 HBJ Holdings	08343.00 NSU Master Drainage Phase I
04065.54 Hillsboro Blvd. Watermain Upgrade	07470.26 Pompano Commerce Park	08343.01 Academic Village
04065.55 SR A1A Landscaping & Crosswalks	07470.28 Mullet Alley	08343.02 NSU Sports Center II
04065.72 S-Curve Valet Operations Evaluation	07470.46 Downtown Connectivity	08343.04 HCA Emergency Facility Site
04065.75 Hills Blvd Water Main CIP	07470.50 MLK Blvd Improvements	08343.05 HPD Surface Lot Survey
04065.76 Deerfield Beach City Hall	07470.75 Old Pompano Civic Plaza DB	08343.07 NSU-CCR
04074.25 Four Residential Lots	07470.84 Pompano property/Landmark	08343.08 CDs Master Drainage Ph.1 Zone 2
04074.26 Lauderdale Marine Center	07470.93 PB CRA Beach Parking Garage	08343.10 Academic Village Stormwater
04074.28 River Bend East/West Modifications	07470.94 Pompano Parking Garage	08343.16 NSU Cont. Survey & SUE Srvcs.
04074.35 1601 SW 20th St - LMC	07500.00 WM/FM Amendment 2	08343.17 Misc Survey & SUE Davie
04116.04 Fairwinds	07500.44 75 test holes 7th and 10th	08343.18 NSU SUE
05005.01 First Presbyterian Church	07569.01 PB Airpark MPU	08343.22 NSU - Student Housing
05025.02 The Wave Phase 1	07600.08 SFRTA Northern Layover Maint. Facility	08348.00 Brickell Citi Center
05025.03 WAVE Streetcar	07600.09 Northern Layover & Maintenance Facility	08348.02 BBVC/Survey Requirements
05031.01 Port Everglades T4	07616.00 Broward County Courthouse	08364.00 Tamarac Mainlands Park
05062.04 Specific Purpose Surveys	07701.05 Port of Miami Tunnel	08400.04 9193 NRWWTP Disposal System
06034.01 Oakland Preserve	07712.04 SFRTA Boca Raton Tri-Rail	08400.05 Wiles Road
07020.02 MLK Blvd. E Corridor Wtr Main.	07712.05 SFRTA Post Design Services	08400.11 Port Everglades MP
07020.03 Kendall Lake Neighborhood Storm Water	07733.00 7650 Lyons Road	08400.15 Hiatus Rd
07020.04 Gateway Drive	07733.08 Delray Verana	08400.21 Tradewinds Park
07020.10 Fire Station 24 Platting	07733.10 Coral Ridge Towers South	08400.17 GIS for BCAD
07020.11 Fire Station 61 Platting	07759.02 FLL Planning -On-Call	08400.18 WTP 1A Eng during Const
07020.14 Fire Station 52	07759.13 FLL 2014 ALP & AGIS Update	08400.20 Everglades Holiday Park
07020.16 Charlotte Burrie Civic Center	07776.00 Brwd Cnty Traffic Signalization	08400.22 BC Bus Shelter
07020.20 NW 7 Avenue Sidewalk Project	07776.04 FEC Corridor Aerial Work	08400.23 Master Pump Station 456-Lauderhill
07020.24 Pompano Misc. Building Projects	07796.00 BC Traffic Signal	08400.25 BCJC Midrise
07020.70 DB Utility Complex	07807.19 FLL East Perimeter Rd Upgrades	08400.26 Broward County Convention Center
07020.74 SW 9th Avenue	07807.21 FLL West Perimeter Road Upgrades	08400.28 Pembroke Rd CEI
07020.76 Briny Avenue Survey/SUE	07807.22 Rehabilitation of Taxiway New Papa	08400.31 Broward Reuse
07020.79 HUD Loan Assistance	07810.09 SR7 & Seminole Way	08400.32 NRWWTP Load Center
07020.81 Underground Utilities	07810.15 I-95 Bridge Obscured Areas	08400.33 Northport Molasses Tank Farm
07020.92 SW 36th Ave	07810.26 SR 823 Flamingo Rd	08400.34 Southport Phase IX
07020.97 Lyons Park Neighborhood Improvement	07810.28 SRA1A Monuments	08400.35 BARC Central Facility
07050.24 Tree Island/FIU	07810.32 SR 814 - FDOT D4	08400.39 SW Airlines Modernization of Terminal 1
07050.33 L-8 Reservoir Monitoring Wells	07810.33 I95 WEIGH IN STATION	08400.42 FLL - South Security Enhancements
07064.02 Morrow Equipment Co	07810.36 SR 710 D/B -- Request for Potholes	08400.45 Pembroke Road Lighting & Plan Review
07155.21 Bermuda Riviera	07810.38 SR 70 at Jenkins	08400.49 Port Everglades T4 Ph. II Expansion
07169.02 FLL T4 Gate Replacement	07810.44 Old Dixie Hwy	08400.50 Wiles Road - R1226729P1
07169.03 CPM Maintenance Facility	07810.51 Broward School Zones	08400.54 Wiles Road CEI
07169.05 FLL T4 -FMS	07810.57 Broward School Zone Test Holes	08400.55 Pine Island Road CEI
07202.05 FXE Taxiway Intersection	07810.62 Additional School Zone Surveys	08400.57 BCWWS UAZ 110/111 and 113
07202.06 FLEXA - Taxiway Foxtrot	07810.64 CITS 64 Scope	08400.64 Davie Road Extension
07202.07 FXE Airport - Foxtrot AGIS	07810.66 Perimeter Road east end of FLL	08400.65 Project 9262 Utility locating and GIS
07235.04 Runway 10R-28L Obstruction Survey	07810.80 NE 6th Ave	08400.83 Brwd-Segment III Shore Protection
07235.09 FLL Taxiway C	07872.00 Port of Palm Beach Slip #3	08410.00 Dade County Misc Survey
07235.15 172.61 acre site	07924.00 Construction Observation	08440.00 Coca-Cola Factory
07235.19 North Drainage Basin Study	07958.05 T3 Line in Baggage Screening	08464.00 FGT Pompano CS21.5 -Turnpike
07235.21 Greenbelt Irrigation	07958.06 FLL Canopies	08464.01 Broadstone Oceanside
07235.22 FLL North Perimeter Road	07958.07 T2 Modernization	08467.01 Galleria Mall Expansion
07235.26 Obstruction Survey & Thunderbolt	07958.08 T3 Modernization	08477.00 Broward Health Prof. Arch. Svcs.
07248.01 KOI	07958.09 FLL Full Site Plan Review	08492.00 Ft.Laud Streetscape Improve
07248.03 Envy - 4350 NW 8th CT	07958.11 FLL Phase 1 Landside Signage	08493.06 AAF Bascule Bridge
07282.39 Pine Tree Estates	07958.12 RPR T1,2,3	08493.07 D5 AAF Movable Bridges
07282.51 Quigley Tennis Center	07958.14 T4 Terrazzo Floors RPR	08496.00 Reliant Medical

08500.00 D4 In-House Coord	08711.09 SW Ranches-DEP Drainage	09110.00 Hampton Inn
08500.01 D4 SE 3rd Ave	08727.00 AAF Miami	09112.00 Dania Water Treatment Plant Demolition
08500.02 D4 - Midway Road PD&E	08729.00 Tamarac Fire Station 78	09119.00 Riverside Condominium
08500.03 432883-2-32-01 ATCS PGA	08735.00 Hallandale Fire Station	09133.00 Keolis Lease Site
08500.04 D6 16628 - I 75	08742.00 SW 142nd Ave Roadway	09135.00 American Senior High
08500.05 I95 /45th ST Inter Study PD&E	08750.00 8th Avenue Residences	09146.00 5461 Johnson Drive Coconut Creek
08500.06 D4 (BDI) Powerline Rd/A1A	08780.00 CD Project 5.17/ps0351 & Force Main	09150.02 Medley-Flood Mitigation Site
08500.07 CR-712/Midway Road	08785.00 Riviera Beach CRA Marina District	09150.03 C-9D49 SW 30th Ave.
08500.08 Peters Rd-FM 431698-1-32-01	08800.01 D4 -SR-706 Adaptive Traffic Control	09210.01 Ft. Laud Traffic Eng-Sistrunk
08500.09 D4 - Dixie Highway	08800.02 TWO16 SR25	09210.02 Ft. Laud Traffic Eng-Riverland Rd
08500.10 Tpkc NW 57th Ave Interchange	08800.10 17456-D4 SR-5 Transit Improve	09210.04 FXE Conceptual Design Survey
08500.12 D4 - SR A1A	08800.11 95 & Stirling Rd	09211.01 Seawall Master Plan
08500.13 NE 23rd Ave Bridge Replacement	08800.22 D4 18425 El Mar Drive	09211.05 Twin Lakes North Annexation
08500.15 Heft	08800.23 D4 SR-7 from NW 36 St to NW 41 St	09211.08 Las Olas Blvd CEI
08500.22 I-95 CDC	08800.24 Design Build Truck Parking	09217.00 Oasis Rehab Center
08500.23 D4 Pedestrian Overpass	08800.25 Atlantic Blvd	09221.00 Palm Aire SPA
08500.25 Krome Avenue North #3	08800.27 D4 Lox Road	09221.03 Palm Aire LUPA
08500.26 SR 80 at Forest Hill Blvd	08800.28 SR9 I-95 S of Military Trail to S Donald	09221.04 39 Townhouse Units at Palm Aire
08500.27 PD&E	08800.31 D4 17445 Midway from Glades	09222.00 Park Grove
08500.28 Ravenswood Bridge Replacement	08800.42 D4 I95@Gateway Blvd	09226.01 Port Everglades F.I.T Site
08500.38 Neighborhood Improvements	08800.49 D4 I95@Northlake Blvd	09226.03 Florida International Terminal
08500.50 Tpkc - Resurfacing HEFT	08800.51 D4 Washington St	09230.00 Marathon Hampton
08500.53 Broward Mobility	08800.55 D4 18449 Martin County	09236.00 Wu Residence
08500.54 SR810 and NW 2nd Ave	08808.00 Strata Plantation-Site Plan	09240.00 NRWWTP Soil Boring
08500.61 SR 710 DB RFP Development	08808.01 PIKL (PIXL Phase 2)	09243.00 Pompano Residence Inn
08500.69 Kanner Highway	08821.00 72" Sanitary Sewer Force Main	09248.00 27 Bar - Permitting
08500.71 Turnpike-PGA Blvd Exit Ramps	08824.00 DBHA Stanley Terrace	09260.00 Tribute Element Dual Brand Hotel
08500.76 I05 at St. Lucie West Blvd.	08851.00 Sunrise City Hall Master Plan	09290.00 Project 2485
08500.88 D4 - NW 19 St Bike Lanes	08877.00 Guy Harvey Outpost Resort	09293.00 951 SW 12 Ave.
08500.90 D6 - SR5/Biscayne Blvd	08882.00 Skyrise Miami	09315.00 Flagler Village Hotel
08500.93 Turnpike-CEI Services, Phase 4B	08889.00 Aventura Park	09318.00 FLL Tropical Air Hangar JetBlue
08500.98 D4 Misc: Powerline Rd	08906.00 1660 N Powerline Rd	09318.01 FLL Tropical Air Site Invest.
08502.00 Sunny Isles - Intracoastal	08906.01 1660 N Powerline Road	09322.00 DB14 WASD 01 72-inch FM Survey
08502.01 Sunny Isles - Arlen House	08908.00 Hollywood Circle	09333.00 The Auto Toy Store
08512.00 Blue Lake in Boca	08909.00 T3 Existing utilities Pothole Locate	09354.00 Jackson Health System - West Campus
08525.00 Pinecrest Football Field	08916.00 S. Miami Ave	09354.03 JHS Construction Survey
08547.00 Miramar Police Headquarters	08931.00 Andrews Avenue Corridor	09359.01 Winfield Boulevard
08551.00 Hilton	08933.00 Atlantic Square	09359.02 Colonial Drive Mid-Block Crosswalk
08555.00 Flannigan's	08944.00 Pine Trails Park Phase 4	09359.05 Atlantic Blvd Streetscape Improvements
08567.00 Ikea Miami	08945.00 Pompano Farmers Market	09359.06 Atlantic Blvd Streetscape
08585.00 SBBC PM	08955.00 Oak Grove Elementary School	09364.01 PBI Airfield Design
08585.01 School Board Broward County	08957.00 Stimpson	09379.00 2800 South Andrews
08593.01 FAU Park Research	08964.00 La Costa Apartments	09379.01 2800 South Andrews Part 2
08593.06 Peoples Trust Phase II	08997.01 311-319 N SR7 Parking Additional	09380.00 FLL Jetscape West
08601.00 Marathon - Sugarloaf Key	09000.01 FLL T4 Apron E Exp. Irrigation	09381.02 Hialeah / Miami Lakes H.S.
08608.00 Jade Signature/Sunny Isles	09000.02 FLL Overall Irrigation Greenbelt	09397.00 Bradford Marine
08627.00 Suncrest Court	09000.03 FLL Westside Water Main Exp	09408.01 Brickell Flatiron
08646.00 Hollywood Water Main	09000.05 FLL-North Perm RD WM Ext	09409.00 Lox Road
08651.00 FLL North Runway	09000.06 FLL Utility Atlas & Misc. Services	09428.00 Fresh Market-Coconut Grove
08654.00 FLL T3 (CBIS/BHS)	09000.09 Runway 10R-28L settlement monitoring	09430.00 Air Base K-8 Conversion
08684.00 FGT Pompano CS21.5 - Turnpike Survey	09000.21 FLL Exit Roadway	09433.00 Continental Park - East
08700.01 NW 74th Street, 74-69Avs	09000.33 FLL Sheltair Stormwater Rem	09447.04 PBI A Hotel Site
08700.02 Okeechobee Road	09000.38 FLL South RW Stormwater Basin Monds	09447.05 Economy Lot Modifications
08700.05 SR 90_SR825 - 439918-1-52-01	09000.39 FLL Westside Dry Detention Pond	09447.06 Feature Signage & Landscaping
08700.09 N Kendall Dr. 150-132 AVS	09000.41 FLL NW TNC Lot	09451.00 PEV Surveyor
08700.10 D6 Kendall Dr	09000.43 FLL SRW/MF TXWYS	09457.01 Forest Lawn Memorial Gardens
08700.15 D6 NW 27 Ave	09000.45 FLL SW Parcel Boundary	09458.00 Sunrise WTP
08700.16 SR826	09008.02 AC Marriott	09461.00 New Pompano Fishing Pier
08700.18 D6 UC	09009.00 Marriott	09468.00 709 Alton Road
08700.20 D6 SR5	09016.00 Doral Marriott Hotel	09484.00 Cloisters
08700.21 D6 Utility Coordination	09020.00 1000 Ocean Boca Beach Club	09486.00 STOF - Dania Reservation
08700.23 SR826 Sunny Isles Blvd	09035.00 Isle of Capri-Demo	09492.00 Douglas Gardens
08705.00 Miramar Reg Park Conf. Center	09035.02 Smoking Casino	09505.00 Pure Residence
08707.00 Woodmont Country Club	09035.03 Isle of Capri Casino Parking Garage	09506.00 Blanche Ely Property
08707.01 Woodmont CC Clubhouse Site	09054.00 Dania Pointe - Bryan Rd	09507.00 Hilton Road Storage
08707.02 Woodmont Country Club- Maint. Facility	09069.00 FLL Bombardier Facility	09513.02 MDCPS New K-8 Center (McArthur HS)
08707.05 Woodmont Country Club- Golf Course	09077.02 SW Air FLL T1 Modern	09513.02 West Lakes Prep K-8
08707.06 Woodmont Country Club- Easements	09086.00 Singer Island	09520.00 Ocean Park Beach Residence
08711.01 SW 54th ST Drainage	09088.00 2900 N. Bay Road	09525.00 Broward Health Coral Springs
08711.04 Misc Outfalls	09102.00 Marathon Public Library	09533.01 PBWUD CD01 Watermain Improvements

Grove Isle	09725.40	7-Eleven W Hillsboro Blvd	10062.00	Ramada Renovation
Coral Gables HS	09740.00	Weston Hills Country Club	10067.00	Pinnacle at Deerfield
Lake Delray Apartments	09745.00	Dadeland Overture Survey	10076.00	Aquatic Stone
Coral Ridge Traffic Circle	09748.00	Tower 155	10083.00	MRO Hangar-1800 SW 34th Street
Jackson Health System South	09761.00	1380 S. Ocean Blvd	10090.00	Renaissance Hotel
300 Collins Ave - Residential Project	09783.00	Center Street Residences	10097.00	Ft.Laud Cemetery Master Plan
Delray Beach Soft Digs	09792.00	Tamarac Fire Station #36	10100.01	KA 17-01 District 3A STEP Ares 3A-N
Stirling Road	09800.04	SR 968 W Flagler St & SW 84th Ave	10100.03	District 3A STEP Area 3A-H
Sunrise Reuse Distribution Center	09800.05	D6-Kendall Drive	10100.06	BCWWS KA17-06
Springtree WTP	09800.09	SR5/US-1 From Riviera DR to SW 27Ave	10100.08	BCWWS KA17-07
City of Sunrise City Hall Complex	09800.11	SRA1A(Watson Island)	10100.12	BCWWS STEP Area 1B
Public Works Site Plantation	09800.14	SR5 US-1 From Riviera Dr to SW 27 Ace	10108.00	Jefferson Plaza NMB
121st Ave Water Main Sunrise	09829.00	Miramar Drainage Study	10112.00	Maizon Apartments-1100 SW 2nd Ave
Banks Road Storage	09836.00	Miami Air Traffic Control Contract	10119.00	808 SE 4th Street
Harbor Inn Apartments	09836.01	JARTCC(ZJX)	10208.00	W Sunrise Blvd & NW 136 Ave
PSBO Laser Scanning and Modeling	09844.00	Butters Warehouse PB	10214.00	W Hotel- TCI
Town-wide Facilities Needs Assessment	09868.00	Dr. Alice Moore Apartments	10219.00	Fairfield Inn - Florida City
CAS Investigations	09869.01	Hollywood 17029.WW01-00	10230.00	Isle Casino - Pompano
Muss Park Pavilion	09870.00	31st Ave Business Center	10234.00	Sun Recycling Facility#7
601 N Federal Highway	09874.00	The Henry Coral Gables	10238.01	Geo -Boca Raton
1600 W Sample Road	09886.01	N. Federal Hwy, Oakland Park - South	10239.00	Riverwalk Tower LLC
Public Storage W Palm Beach Military	09887.00	Oakland Park Commerce Center	10253.00	Granite Hotel - Ft. Lauderdale
12451 Orange Dr Davie	09906.00	790 East Broward Blvd	10258.00	RSW Terminal Expansion
Public Storage Fort Lauderdale	09909.00	Coconut Creek Comp. Street Improv.	10269.00	FtLaud Fast Forward Design
PS Delray Beach-Atlantic	09935.00	Lauderhill Limited Access Storage	10276.00	Lighthouse Point Townhouses
Public Storage - Miami SW 119	09941.01	Ft. Laud Marina Partners Redevelopment	10284.00	Ransom Everglades School
PS Lake Worth - S Military Tr	09953.00	FCC Medley FL NW 87th Ave	10284.02	Ransom Everglades STEM Bldg Phase 2
Public Storage 25829 Port St Lucie	09967.00	JM Family Civil Eng. & Property Survey	10287.00	NE 19th AVE N Atlantic Blvd
PS Lake Worth - SR7	09981.00	WASD Pipeline - E15WASD01	10291.00	Sea Cadet Building
PS Boca Raton Turnpike & Glades	09983.00	2281 State Rd 84	10298.00	Aloha Site PB
PS Pompano Beach - Dixie	09987.00	Las Olas Corridor Improvement	10300.01	Villa Stark Turks & Caicos
Clint Moore Rd Property	09993.00	Plantation Fire Station#1 Replace	10312.00	SFOMF(UTEC)Concept Plan
City Vista Apartments	09997.00	140 NE 16th ST, Pompano Beach	10321.01	Gulfstream/Jet Aviation PBI
SW Miami senior high school	09997.01	South Motors-Pompano Beach	10322.00	Carolina Creek-Texas
FXE Parcel 16-C	10000.02	Community Garden	10340.00	SDOPBC-Wellington MS
Pet Lodge/Self Storage	10020.02	Blanche Ely Museum PB	10369.00	100 Avenue of the Arts
MDC Dyer Building	10020.07	Dixie Hwy	10370.00	909 NW 6th St Ft. Lauderdale
Flagler Village	10020.09	Federal Hwy LHP	10380.00	Mizner 200
300 North Andrews - 3 towers	10020.14	Old Pompano Streetscapes	10382.00	One Town Center Boca
Coral Gables Sr HS Renovations	10020.19	Palm Aire Fire Station	10395.00	Kendall Regional Medical Center
MIA-Central Base Apron	10020.22	Palm Aire Lakes	10413.00	2542 Franklin Drive
Wynwood Properties	10020.24	Annie Gillis Park to Plaza 601 MLK Blvd	10439.00	BB&T Center Survey
Fire Station 24	10020.27	MLK & Turnpike Assessment	10464.00	Doral Glades Park
Benjamin Franklin K-8	10020.28	Hillsboro Shores	10466.00	Villa Woodbine
Biltmore Laser Scan	10021.00	Holistic Recovery Center	10475.00	UM Proton Miami
The Gates Hotel/Sunset Green	10024.00	The Tides Hotel, Amelia Island, FL	10478.00	LTBS Bougainville Drive
7-Eleven Miami	10026.00	Braun Residence	10480.00	Fire Station 9 -WPB
7-Eleven Key Largo	10032.00	West Avenue Improvements	10499.00	Citizens Bank Bldg. Restoration
7-Eleven Wiles Rd	10036.00	Lake Worth Casino Pool Building	10511.00	Life Storage 1799 W Atlantic Blvd
7-Eleven State Road 7	10038.00	ADF International-1925 NW 15 ST	10534.00	520 N. Birch Road
7-Eleven Military Trail	10042.00	1820 MLK JR. BLVD	10545.00	SR 5
7-Eleven W. Sample Rd	10046.00	DC Alexander Park	10574.00	Flagler Residential
7-Eleven Boynton Beach	10053.00	Aviara East Pompano	10575.00	Marina Bay 8800
7-Eleven Lantana Rd	10056.00	Bayshore Beach Hotel	10622.00	1212 Lincoln Road
7-Eleven - Glades Rd	10059.00	Port Everglades Terminal 25		
7-Eleven Royal palm Beach	10059.01	PEV T25		

TAB 5

Location



Please refer to our Location Attestation Form via Bidsync.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2018 THROUGH SEPTEMBER 30, 2019

DBA: STEPHEN D WILLIAMS Receipt #: 315-766
Business Name: Business Type: ENGINEER (ENGINEER)

Owner Name: KEITH & ASSOCIATES INC Business Opened: 12/08/1998
Business Location: 301 E ATLANTIC BLVD State/County/Cert/Reg: 32090/7928
POMPANO BEACH Exemption Code:
Business Phone: 954-788-3400

Rooms	Seats	Employees	Machines	Professionals
		5		

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

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

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

WHEN VALIDATED

Mailing Address: Receipt #1CP-17-00020707
STEPHEN D WILLIAMS Paid 08/24/2018 30.00
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060

2018 - 2019

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000
VALID OCTOBER 1, 2018 THROUGH SEPTEMBER 30, 2019

DBA: KEITH & ASSOCIATES INC Receipt #: 315-332
Business Name: Business Type: LAND SURVEYORS (LAND SURVEYORS/MAPPERS)

Owner Name: ADOLPHINE M LAZOWICK Business Opened: 12/08/1998
Business Location: 301 E ATLANTIC BLVD State/County/Cert/Reg: 154105
POMPANO BEACH Exemption Code:
Business Phone: 954-788-3400

Rooms	Seats	Employees	Machines	Professionals
		5		

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

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

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

WHEN VALIDATED

Mailing Address: Receipt #1CP-17-00020707
ADOLPHINE M LAZOWICK Paid 08/24/2018 30.00
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060

2018 - 2019

TAB 6

Willingness to Meet Time and Budget



WILLINGNESS TO MEET TIME and BUDGET REQUIREMENTS

KEITH has historically completed projects ahead of schedule and within budget parameters. Our hands on project approach and dedicated team, as described in previous sections, has proven their ability to control the design process, expedite the permitting process and move quickly into construction. Our budgets are based on historical costs for similar projects and estimated levels of effort anticipated for each individual project. Combining our local knowledge and input from key subconsultant partners on the elements needed to plan and execute the project, we are confident the project can be completed within the time and budget allotted.

Yes, the KEITH Team is willing and confident we can meet anticipated project completion dates for the entire duration of this contract and will provide design and CA services to keep total project cost below the project budget ceilings. We will work with Broward County staff to assure individual work order schedules and budgets are properly identified and expectations are understood to deliver on-time projects while being good stewards of the County’s funds.



TAB 7

Volume of Previous Work



BROWARD COUNTY PROJECTS - VOLUME OF PREVIOUS WORK: KEITH'S PRIME CONTRACTS

Project Title	Solicitation / Contract Number	Department or Division	Date Awarded	Prime Paid to Date	CBE Paid to Date
Professional Services for Airport Utilities and Pavements	Z11225301P1	BCAD	2015	\$2,773,812.73	\$521,027.97
Continuing Engineering Services: Water Distribution, Wastewater and Stormwater Collection	R1404111P1	BCWWS	2017	\$185,234.72	\$54,421.81
Long Key Nature Center	R1404111P1	BC Parks	2017	\$19,400.00	/
BB&T Arena Survey	P1019501B1	BC Commission	2018	\$4,717.50	/
Total					\$2,407,715.17



KEITH

Engineering Inspired Design.

Supplier: **Keith and Associates, Inc.**

**Standard Instructions to Vendors
Request for Proposals, Request for Qualifications, or Request for Letters of Interest**

Vendors are instructed to read and follow the instructions carefully, as any misinterpretation or failure to comply with instructions may lead to a Vendor's submittal being rejected.

Vendor MUST submit its solicitation response electronically and MUST confirm its submittal in order for the County to receive a valid response through BidSync. Refer to the [Purchasing Division website](#) or contact BidSync for submittal instructions.

A. Responsiveness Criteria:

In accordance with Broward County Procurement Code Section 21.8.b.65, a Responsive Bidder [Vendor] means a person who has submitted a proposal which conforms in all material respects to a solicitation. The solicitation submittal of a responsive Vendor must be submitted on the required forms, which contain all required information, signatures, notarizations, insurance, bonding, security, or other mandated requirements required by the solicitation documents to be submitted at the time of proposal opening.

Failure to provide the information required below at the time of submittal opening may result in a recommendation Vendor is non-responsive by the Director of Purchasing. The Selection or Evaluation Committee will determine whether the firm is responsive to the requirements specified herein. The County reserves the right to waive minor technicalities or irregularities as is in the best interest of the County in accordance with Section 21.30.f.1(c) of the Broward County Procurement Code.

Below are standard responsiveness criteria; refer to **Special Instructions to Vendors**, for Additional Responsiveness Criteria requirement(s).

1. Lobbyist Registration Requirement Certification

Refer to **Lobbyist Registration Requirement Certification**. The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

2. Addenda

The County reserves the right to amend this solicitation prior to the due date. Any change(s) to this solicitation will be conveyed through the written addenda process. Only written addenda will be binding. If a "must" addendum is issued, Vendor must follow instructions and submit required information, forms, or acknowledge addendum, as instructed therein. It is the responsibility of all potential Vendors to monitor the solicitation for any changing information, prior to submitting their response.

B. Responsibility Criteria:

Definition of a Responsible Vendor: In accordance with Section 21.8.b.64 of the Broward County Procurement Code, a Responsible Vendor means a Vendor who has the capability in all respects to perform the contract requirements, and the integrity and reliability which will assure good faith performance.

The Selection or Evaluation Committee will recommend to the awarding authority a determination of

a Vendor's responsibility. At any time prior to award, the awarding authority may find that a Vendor is not responsible to receive a particular award.

Failure to provide any of this required information and in the manner required may result in a recommendation by the Director of Purchasing that the Vendor is non-responsive.

Below are standard responsibility criteria; refer to **Special Instructions to Vendors**, for Additional Responsibility Criteria requirement(s).

1. **Litigation History**

- a. All Vendors are required to disclose to the County all "material" cases filed, pending, or resolved during the last three (3) years prior to the solicitation response due date, whether such cases were brought by or against the Vendor, any parent or subsidiary of the Vendor, or any predecessor organization. Additionally, all Vendors are required to disclose to the County all "material" cases filed, pending, or resolved against any principal of Vendor, regardless of whether the principal was associated with Vendor at the time of the "material" cases against the principal, during the last three (3) years prior to the solicitation response. A case is considered to be "material" if it relates, in whole or in part, to any of the following:
 - i. A similar type of work that the vendor is seeking to perform for the County under the current solicitation;
 - ii. An allegation of fraud, negligence, error or omissions, or malpractice against the vendor or any of its principals or agents who would be performing work under the current solicitation;
 - iii. A vendor's default, termination, suspension, failure to perform, or improper performance in connection with any contract;
 - iv. The financial condition of the vendor, including any bankruptcy petition (voluntary and involuntary) or receivership; or
 - v. A criminal proceeding or hearing concerning business-related offenses in which the vendor or its principals (including officers) were/are defendants.
- b. For each material case, the Vendor is required to provide all information identified in the **Litigation History Form**. Additionally, the Vendor shall provide a copy of any judgment or settlement of any material case during the last three (3) years prior to the solicitation response. Redactions of any confidential portions of the settlement agreement are only permitted upon a certification by Vendor that all redactions are required under the express terms of a pre-existing confidentiality agreement or provision.
- c. The County will consider a Vendor's litigation history information in its review and determination of responsibility.
- d. If the Vendor is a joint venture, the information provided should encompass the joint venture and each of the entities forming the joint venture.
- e. A vendor is required to disclose to the County any and all cases(s) that exist between the County and any of the Vendor's subcontractors/subconsultants proposed to work on this project during the last five (5) years prior to the solicitation response.
- f. Failure to disclose any material case, including all requested information in connection with each such case, as well as failure to disclose the Vendor's subcontractors/subconsultants litigation history against the County, may result in the Vendor being deemed non-responsive.

2. **Financial Information**

- a. All Vendors are required to provide the Vendor's financial statements at the time of submittal

in order to demonstrate the Vendor's financial capabilities.

- b. Each Vendor shall submit its most recent two years of financial statements for review. The financial statements are not required to be audited financial statements. The annual financial statements will be in the form of:
 - i. Balance sheets, income statements and annual reports; or
 - ii. Tax returns; or
 - iii. SEC filings.

If tax returns are submitted, ensure it does not include any personal information (as defined under Florida Statutes Section 501.171, Florida Statutes), such as social security numbers, bank account or credit card numbers, or any personal pin numbers. If any personal information data is part of financial statements, redact information prior to submitting a response the County.

- c. If a Vendor has been in business for less than the number of years of required financial statements, then the Vendor must disclose all years that the Vendor has been in business, including any partial year-to-date financial statements.
- d. The County may consider the unavailability of the most recent year's financial statements and whether the Vendor acted in good faith in disclosing the financial documents in its evaluation.
- e. Any claim of confidentiality on financial statements should be asserted at the time of submittal. Refer to **Standard Instructions to Vendors**, Confidential Material/ Public Records and Exemptions for instructions on submitting confidential financial statements. The Vendor's failure to provide the information as instructed may lead to the information becoming public.
- f. Although the review of a Vendor's financial information is an issue of responsibility, the failure to either provide the financial documentation or correctly assert a confidentiality claim pursuant the Florida Public Records Law and the solicitation requirements (Confidential Material/ Public Records and Exemptions section) may result in a recommendation of non-responsiveness by the Director of Purchasing.

3. Authority to Conduct Business in Florida

- a. A Vendor must have the authority to transact business in the State of Florida and be in good standing with the Florida Secretary of State. For further information, contact the Florida Department of State, Division of Corporations.
- b. The County will review the Vendor's business status based on the information provided in response to this solicitation.
- c. It is the Vendor's responsibility to comply with all state and local business requirements.
- d. Vendor should list its active Florida Department of State Division of Corporations Document Number (or Registration No. for fictitious names) in the **Vendor Questionnaire**, Question No. 10.
- e. If a Vendor is an out-of-state or foreign corporation or partnership, the Vendor must obtain the authority to transact business in the State of Florida or show evidence of application for the authority to transact business in the State of Florida, upon request of the County.
- f. A Vendor that is not in good standing with the Florida Secretary of State at the time of a

submission to this solicitation may be deemed non-responsible.

- g. If successful in obtaining a contract award under this solicitation, the Vendor must remain in good standing throughout the contractual period of performance.

4. **Affiliated Entities of the Principal(s)**

- a. All Vendors are required to disclose the names and addresses of “affiliated entities” of the Vendor’s principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County. The Vendor is required to provide all information required on the **Affiliated Entities of the Principal(s) Certification Form**.
- b. The County will review all affiliated entities of the Vendor’s principal(s) for contract performance evaluations and the compliance history with the County’s Small Business Program, including CBE, DBE and SBE goal attainment requirements. “Affiliated entities” of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor’s principals in its review and determination of responsibility.

5. **Insurance Requirements**

The **Insurance Requirement Form** reflects the insurance requirements deemed necessary for this project. It is not necessary to have this level of insurance in effect at the time of submittal, but it is necessary to submit certificates indicating that the Vendor currently carries the insurance or to submit a letter from the carrier indicating it can provide insurance coverages.

C. **Additional Information and Certifications**

The following forms and supporting information (if applicable) should be returned with Vendor’s submittal. If not provided with submittal, the Vendor must submit within three business days of County’s request. Failure to timely submit may affect Vendor’s evaluation.

1. **Vendor Questionnaire**

Vendor is required to submit detailed information on their firm. Refer to the **Vendor Questionnaire** and submit as instructed.

2. **Standard Certifications**

Vendor is required to certify to the below requirements. Refer to the **Standard Certifications** and submit as instructed.

- a. **Cone of Silence Requirement Certification**
- b. **Drug-Free Workplace Certification**
- c. **Non-Collusion Certification**
- d. **Public Entities Crimes Certification**
- e. **Scrutinized Companies List Certification**

3. **Subcontractors/Subconsultants/Suppliers Requirement**

The Vendor shall submit a listing of all subcontractors, subconsultants, and major material suppliers, if any, and the portion of the contract they will perform. Vendors must follow the instructions included on the **Subcontractors/Subconsultants/Suppliers Information Form** and submit as instructed.

D. Standard Agreement Language Requirements

1. The acceptance of or any exceptions taken to the terms and conditions of the County's Agreement shall be considered a part of a Vendor's submittal and will be considered by the Selection or Evaluation Committee.
2. The applicable Agreement terms and conditions for this solicitation are indicated in the **Special Instructions to Vendors**.
3. Vendors are required to review the applicable terms and conditions and submit the **Agreement Exception Form**. If the **Agreement Exception Form** is not provided with the submittal, it shall be deemed an affirmation by the Vendor that it accepts the Agreement terms and conditions as disclosed in the solicitation.
4. If exceptions are taken, the Vendor must specifically identify each term and condition with which it is taking an exception. Any exception not specifically listed is deemed waived. Simply identifying a section or article number is not sufficient to state an exception. Provide either a redlined version of the specific change(s) or specific proposed alternative language. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.
5. Submission of any exceptions to the Agreement does not denote acceptance by the County. Furthermore, taking exceptions to the County's terms and conditions may be viewed unfavorably by the Selection or Evaluation Committee and ultimately may impact the overall evaluation of a Vendor's submittal.

E. Evaluation Criteria

1. The Selection or Evaluation Committee will evaluate Vendors as per the **Evaluation Criteria**. The County reserves the right to obtain additional information from a Vendor.
2. Vendor has a continuing obligation to inform the County in writing of any material changes to the information it has previously submitted. The County reserves the right to request additional information from Vendor at any time.
3. For Request for Proposals, the following shall apply:
 - a. The Director of Purchasing may recommend to the Evaluation Committee to short list the most qualified firms prior to the Final Evaluation.
 - b. The Evaluation Criteria identifies points available; a total of 100 points is available.
 - c. If the Evaluation Criteria includes a request for pricing, the total points awarded for price is determined by applying the following formula:
$$\frac{\text{(Lowest Proposed Price/Vendor's Price)}}{\text{Maximum Number of Points for Price}} = \text{Price Score}$$
 - d. After completion of scoring, the County may negotiate pricing as in its best interest.
4. For Requests for Letters of Interest or Request for Qualifications, the following shall apply:
 - a. The Selection or Evaluation Committee will create a short list of the most qualified firms.
 - b. The Selection or Evaluation Committee will either:

- i. Rank shortlisted firms; or
- ii. If the solicitation is part of a two-step procurement, shortlisted firms will be requested to submit a response to the Step Two procurement.

F. Demonstrations

If applicable, as indicated in Special Instructions to Vendors, Vendors will be required to demonstrate the nature of their offered solution. After receipt of submittals, all Vendors will receive a description of, and arrangements for, the desired demonstration. In accordance with Section 286.0113 of the Florida Statutes and pursuant to the direction of the Broward County Board of Commissioners, demonstrations are closed to only the vendor team and County staff.

G. Presentations

Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) will have an opportunity to make an oral presentation to the Selection or Evaluation Committee on the Vendor's approach to this project and the Vendor's ability to perform. The committee may provide a list of subject matter for the discussion. All Vendor's will have equal time to present but the question-and-answer time may vary. In accordance with Section 286.0113 of the Florida Statutes and the direction of the Broward County Board of Commissioners, presentations during Selection or Evaluation Committee Meetings are closed. Only the Selection or Evaluation Committee members, County staff and the vendor and their team scheduled for that presentation will be present in the Meeting Room during the presentation and subsequent question and answer period.

H. Public Art and Design Program

If indicated in **Special Instructions to Vendors**, Public Art and Design Program, Section 1-88, Broward County Code of Ordinances, applies to this project. It is the intent of the County to functionally integrate art, when applicable, into capital projects and integrate artists' design concepts into this improvement project. The Vendor may be required to collaborate with the artist(s) on design development within the scope of this request. Artist(s) shall be selected by Broward County through an independent process. For additional information, contact the Broward County Cultural Division.

I. Committee Appointment

The Cone of Silence shall be in effect for County staff at the time of the Selection or Evaluation Committee appointment and for County Commissioners and Commission staff at the time of the Shortlist Meeting of the Selection Committee or the Initial Evaluation Meeting of the Evaluation Committee. The committee members appointed for this solicitation are available on the Purchasing Division's website under [Committee Appointment](#).

J. Committee Questions, Request for Clarifications, Additional Information

At any committee meeting, the Selection or Evaluation Committee members may ask questions, request clarification, or require additional information of any Vendor's submittal or proposal. It is highly recommended Vendors attend to answer any committee questions (if requested), including a Vendor representative that has the authority to bind.

Vendor's answers may impact evaluation (and scoring, if applicable). Upon written request to the Purchasing Agent prior to the meeting, a conference call number will be made available for Vendor participation via teleconference. Only Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) are requested to participate in a final (or presentation) Selection or Evaluation committee meeting.

K. Vendor Questions

The County provides a specified time for Vendors to ask questions and seek clarification regarding solicitation requirements. All questions or clarification inquiries must be submitted through BidSync by the date and time referenced in the solicitation document (including any addenda). The County will respond to questions via Bid Sync.

L. Confidential Material/ Public Records and Exemptions

1. Broward County is a public agency subject to Chapter 119, Florida Statutes. Upon receipt, all submittals become "public records" and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes. Submittals may be posted on the County's public website or included in a public records request response, unless there is a declaration of "confidentiality" pursuant to the public records law and in accordance with the procedures in this section.
2. Any confidential material(s) the Vendor asserts is exempt from public disclosure under Florida Statutes must be labeled as "Confidential", and marked with the specific statute and subsection asserting exemption from Public Records.
3. To submit confidential material, three hardcopies must be submitted in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division
115 South Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

4. Material will not be treated as confidential if the Vendor does not cite the applicable Florida Statute (s) allowing the document to be treated as confidential.
5. Any materials that the Vendor claims to be confidential and exempt from public records must be marked and separated from the submittal. If the Vendor does not comply with these instructions, the Vendor's claim for confidentiality will be deemed as waived.
6. Submitting confidential material may impact full discussion of your submittal by the Selection or Evaluation Committee because the Committee will be unable to discuss the details contained in the documents cloaked as confidential at the publicly noticed Committee meeting.

M. Copyrighted Materials

Copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Submission of copyrighted material in response to any solicitation will constitute a license and permission for the County to make copies (including electronic copies) as reasonably necessary for the use by County staff and agents, as well as to make the materials available for inspection or production pursuant to Public Records Law, Chapter 119, Florida Statutes.

N. State and Local Preferences

If the solicitation involves a federally funded project where the fund requirements prohibit the use of state and/or local preferences, such preferences contained in the Local Preference Ordinance and Broward County Procurement Code will not be applied in the procurement process.

O. Local Preference

Except where otherwise prohibited by federal or state law or other funding source restrictions, a local Vendor whose submittal is within 5% of the highest total ranked Vendor outside of the preference area will become the Vendor with whom the County will proceed with negotiations for a

final contract. Refer to **Local Vendor Certification Form (Preference and Tiebreaker)** for further information.

P. Tiebreaker Criteria

In accordance with Section 21.31.d of the Broward County Procurement Code, the tiebreaker criteria shall be applied based upon the information provided in the Vendor's response to the solicitation. In order to receive credit for any tiebreaker criterion, complete and accurate information must be contained in the Vendor's submittal.

1. **Local Vendor Certification Form (Preference and Tiebreaker);**
2. **Domestic Partnership Act Certification (Requirement and Tiebreaker);**
3. **Tiebreaker Criteria Form: Volume of Work Over Five Years**

Q. Posting of Solicitation Results and Recommendations

The Broward County Purchasing Division's [website](#) is the location for the County's posting of all solicitations and contract award results. It is the obligation of each Vendor to monitor the website in order to obtain complete and timely information.

R. Review and Evaluation of Responses

A Selection or Evaluation Committee is responsible for recommending the most qualified Vendor(s). The process for this procurement may proceed in the following manner:

1. The Purchasing Division delivers the solicitation submittals to agency staff for summarization for the committee members. Agency staff prepares a report, including a matrix of responses submitted by the Vendors. This may include a technical review, if applicable.
2. Staff identifies any incomplete responses. The Director of Purchasing reviews the information and makes a recommendation to the Selection or Evaluation Committee as to each Vendor's responsiveness to the requirements of the solicitation. The final determination of responsiveness rests solely on the decision of the committee.
3. At any time prior to award, the awarding authority may find that a Vendor is not responsible to receive a particular award. The awarding authority may consider the following factors, without limitation: debarment or removal from the authorized Vendors list or a final decree, declaration or order by a court or administrative hearing officer or tribunal of competent jurisdiction that the Vendor has breached or failed to perform a contract, claims history of the Vendor, performance history on a County contract(s), an unresolved concern, or any other cause under this code and Florida law for evaluating the responsibility of a Vendor.

S. Vendor Protest

Sections 21.118 and 21.120 of the Broward County Procurement Code set forth procedural requirements that apply if a Vendor intends to protest a solicitation or proposed award of a contract and state in part the following:

1. Any protest concerning the solicitation or other solicitation specifications or requirements must be made and received by the County within seven business days from the posting of the solicitation or addendum on the Purchasing Division's website. Such protest must be made in writing to the Director of Purchasing. Failure to timely protest solicitation specifications or requirements is a waiver of the ability to protest the specifications or requirements.

2. Any protest concerning a solicitation or proposed award above the award authority of the Director of Purchasing, after the RLI or RFP opening, shall be submitted in writing and received by the Director of Purchasing within five business days from the posting of the recommendation of award for Invitation to Bids or the final recommendation of ranking for Request for Letters of Interest and Request for Proposals on the Purchasing Division's website.
3. Any actual or prospective Vendor who has a substantial interest in and is aggrieved in connection with the proposed award of a contract that does not exceed the amount of the award authority of the Director of Purchasing, may protest to the Director of Purchasing. The protest shall be submitted in writing and received within three (3) business days from the posting of the recommendation of award for Invitation to Bids or the final recommendation of ranking for Request for Letters of Interest and Request for Proposals on the Purchasing Division's website.
4. For purposes of this section, a business day is defined as Monday through Friday between 8:30 a.m. and 5:00 p.m. Failure to timely file a protest within the time prescribed for a proposed contract award shall be a waiver of the Vendor's right to protest.
5. As a condition of initiating any protest, the protestor shall present the Director of Purchasing a nonrefundable filing fee in accordance with the table below.

<u>Estimated Contract Amount</u>	<u>Filing Fee</u>
\$30,000 - \$250,000	\$ 500
\$250,001 - \$500,000	\$1,000
\$500,001 - \$5 million	\$3,000
Over \$5 million	5,000

If no contract proposal amount was submitted, the estimated contract amount shall be the County's estimated contract price for the project. The County may accept cash, money order, certified check, or cashier's check, payable to Broward County Board of Commissioners.

T. Right of Appeal

Pursuant to Section 21.83.d of the Broward County Procurement Code, any Vendor that has a substantial interest in the matter and is dissatisfied or aggrieved in connection with the Selection or Evaluation Committee's determination of responsiveness may appeal the determination pursuant to Section 21.120 of the Broward County Procurement Code.

1. The appeal must be in writing and sent to the Director of Purchasing within ten (10) calendar days of the determination by the Selection or Evaluation Committee to be deemed timely.
2. As required by Section 21.120, the appeal must be accompanied by an appeal bond by a Vendor having standing to protest and must comply with all other requirements of this section.
3. The institution and filing of an appeal is an administrative remedy to be employed prior to the institution and filing of any civil action against the County concerning the subject matter of the appeal.

U. Rejection of Responses

The Selection or Evaluation Committee may recommend rejecting all submittals as in the best interests of the County. The rejection shall be made by the Director of Purchasing, except when a solicitation was approved by the Board, in which case the rejection shall be made by the Board.

V. Negotiations

The County intends to conduct the first negotiation meeting no later than two weeks after approval of the final ranking as recommended by the Selection or Evaluation Committee. At least one of the representatives for the Vendor participating in negotiations with the County must be authorized to bind the Vendor. In the event that the negotiations are not successful within a reasonable timeframe (notification will be provided to the Vendor) an impasse will be declared and negotiations with the first-ranked Vendor will cease. Negotiations will begin with the next ranked Vendor, etc. until such time that all requirements of Broward County Procurement Code have been met. In accordance with Section 286.0113 of the Florida Statutes and the direction of the Broward County Board of Commissioners, negotiations resulting from Selection or Evaluation Committee Meetings are closed. Only County staff and the selected vendor and their team will be present during negotiations.

W. Submittal Instructions:

1. Broward County does not require any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, driver license numbers, passport, military ID, bank account or credit card numbers, or any personal pin numbers, in order to submit a response for ANY Broward County solicitation. **DO NOT INCLUDE** any personal information data in any document submitted to the County. If any personal information data is part of a submittal, this information must be redacted prior to submitting a response to the County.
2. **Vendor MUST submit its solicitation response electronically and MUST confirm its submittal in order for the County to receive a valid response through BidSync.** It is the Vendor's sole responsibility to assure its response is submitted and received through BidSync by the date and time specified in the solicitation.
3. The County will not consider solicitation responses received by other means. Vendors are encouraged to submit their responses in advance of the due date and time specified in the solicitation document. In the event that the Vendor is having difficulty submitting the solicitation document through Bid Sync, immediately notify the Purchasing Agent and then contact BidSync for technical assistance.
4. Vendor must view, submit, and/or accept each of the documents in BidSync. Web-fillable forms can be filled out and submitted through BidSync.
5. After all documents are viewed, submitted, and/or accepted in BidSync, the Vendor must upload additional information requested by the solicitation (i.e. Evaluation Criteria and Financials Statements) in the Item Response Form in BidSync, under line one (regardless if pricing requested).
6. Vendor should upload responses to Evaluation Criteria in Microsoft Word or Excel format.
7. If the Vendor is declaring any material confidential and exempt from Public Records, refer to Confidential Material/ Public Records and Exemptions for instructions on submitting confidential material.
8. After all files are uploaded, Vendor must submit and **CONFIRM** its offer (by entering password) for offer to be received through BidSync.

9. If a solicitation requires an original Proposal Bond (per Special Instructions to Vendors), Vendor must submit in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division
115 South Andrews Avenue, Room 212
Fort Lauderdale, FL 33301

A copy of the Proposal Bond should also be uploaded into Bid Sync; this does not replace the requirement to have an original proposal bond. Vendors must submit the original Proposal Bond, by the solicitation due date and time.

Supplier: **Keith and Associates, Inc.**

VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS
Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendor should complete questionnaire and complete and acknowledge the standard certifications and submit with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number. The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. Legal business name:**Keith and Associates, Inc.**
2. Doing Business As/ Fictitious Name (if applicable):**KEITH**
3. Federal Employer I.D. no. (FEIN):**65-0806421**
4. Dun and Bradstreet No.:**618480219**
5. Website address (if applicable): **www.KEITHteam.com**
6. Principal place of business address: **301 East Atlantic Blvd., Pompano Beach, FL 33060**
7. Office location responsible for this project: **301 East Atlantic Blvd, Pompano Beach, FL 33060**
8. Telephone no.:**9547883400** Fax no.:
9. Type of business (check appropriate box):
 - Corporation (specify the state of incorporation):**Florida**
 - Sole Proprietor
 - Limited Liability Company (LLC)
 - Limited Partnership
 - General Partnership (State and County Filed In)
 - Other - Specify
10. List Florida Department of State, Division of Corporations document number (or registration number if fictitious name): **P98000006011**
11. List name and title of each principal, owner, officer, and major shareholder:
 - a) **Dodie Keith-Lazowick, President**
 - b) **Alex Lazowick, Vice Director**
 - c) **Stephen Williams, Vice Director**
 - d) **Paul Weinberg, Vice Director**
12. AUTHORIZED CONTACT(S) FOR YOUR FIRM:

Name: **Dodie Keith-Lazowick**

Title: **President**

E-mail: **Dkeith@KEITHteam.com**

Telephone No.: **954-788-3400**

Name: **Alex Lazowick**

Title: **Executive Vice President**

E-mail: **ALazowick@KEITHteam.com**

Telephone No.: **954-788-3400**

- 13. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached written response. Yes No
 - 14. Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. Yes No
 - 15. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. Yes No
 - 16. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached written response. Yes No
 - 17. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. Yes No
 - 18. Has your firm's surety ever intervened to assist in the completion of a contract or have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. Yes No
 - 19. Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. Yes No
 - 20. Has your firm ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. Yes No
 - 21. Living Wage solicitations only: In determining what, if any, fiscal impacts(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
Living Wage had an effect on the pricing. Yes No
 N/A
- If yes, Living Wage increased the pricing by% or decreased the pricing by%.

Cone of Silence Requirement Certification:

The Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances prohibits certain communications among Vendors, Commissioners, County staff, and Selection or Evaluation Committee members. Identify on a separate sheet any violations of this Ordinance by any members of the responding firm or its joint ventures. After the application of the Cone of Silence, inquiries regarding this solicitation should be directed to the Director of Purchasing or designee. The Cone of Silence terminates when the County Commission or other awarding authority takes action which ends the solicitation.

The Vendor hereby certifies that: (check each box)

- The Vendor has read Cone of Silence Ordinance, Section 1-266, Broward County Code of Ordinances; and
- The Vendor understands that the Cone of Silence for this competitive solicitation shall be in effect beginning upon the appointment of the Selection or Evaluation Committee, for communication regarding this

solicitation with the County Administrator, Deputy County Administrator, Assistant County Administrators, and Assistants to the County Administrator and their respective support staff or any person, including Evaluation or Selection Committee members, appointed to evaluate or recommend selection in this RFP/RLI process. For Communication with County Commissioners and Commission staff, the Cone of Silence allows communication until the initial Evaluation or Selection Committee Meeting.

- The Vendor agrees to comply with the requirements of the Cone of Silence Ordinance.

Drug-Free Workplace Requirements Certification:

Section 21.31.a. of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program. The program must consist of:

1. Publishing a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the offeror's workplace, and specifying the actions that will be taken against employees for violations of such prohibition;
2. Establishing a continuing drug-free awareness program to inform its employees about:
 - a. The dangers of drug abuse in the workplace;
 - b. The offeror's policy of maintaining a drug-free workplace;
 - c. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
3. Giving all employees engaged in performance of the contract a copy of the statement required by subparagraph 1;
4. Notifying all employees, in writing, of the statement required by subparagraph 1, that as a condition of employment on a covered contract, the employee shall:
 - a. Abide by the terms of the statement; and
 - b. Notify the employer in writing of the employee's conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or of any state, for a violation occurring in the workplace NO later than five days after such conviction.
5. Notifying Broward County government in writing within 10 calendar days after receiving notice under subdivision 4.b above, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
6. Within 30 calendar days after receiving notice under subparagraph 4 of a conviction, taking one of the following actions with respect to an employee who is convicted of a drug abuse violation occurring in the workplace:
 - a. Taking appropriate personnel action against such employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency; and
7. Making a good faith effort to maintain a drug-free workplace program through implementation of subparagraphs 1 through 6.

The Vendor hereby certifies that: (check box)

- The Vendor certifies that it has established a drug free workplace program in accordance with the above requirements.

Non-Collusion Certification:

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of

offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

- The Vendor certifies that this offer is made independently and free from collusion; or
- The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Public Entities Crimes Certification:

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; and may not be awarded or perform work as a contractor, supplier, subcontractor, 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 s. 287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

- The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

Scrutinized Companies List Certification:

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Alex Lazowick	Executive Vice President	7/19/19
<hr/>	<hr/>	<hr/>
*AUTHORIZED SIGNATURE/NAME	TITLE	DATE

Vendor Name: **KEITH**

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to Section 21.119 of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

3

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Supplier: Keith and Associates, Inc.

LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one)

- It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified.
- It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances.

It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist: **N/A**

Lobbyist's Firm:

Phone:

E-mail: **keith-associates**

Name of Lobbyist: **N/A**

Lobbyist's Firm:

Phone:

E-mail:

Authorized Signature/Name: Alex Lazowick Date: 7/19/19

Title: Executive Vice President

Vendor Name: KEITH

Supplier: Keith and Associates, Inc.**Office of Economic and Small Business Requirements: CBE Goal Participation**

- A. In accordance with the Broward County Business Opportunity Act of 2012, Section 1-81, Code of Ordinances, as amended (the "Business Opportunity Act"), the County Business Enterprise (CBE) Program is applicable to this contract. All Vendors responding to this solicitation are required to utilize CBE firms to perform the assigned participation goal for this contract.
- B. The CBE participation goal will be established based on the expected expenditure amount for the proposed scope of services for the project. The Office of Economic and Small Business Development (OESBD) will not include alternate items, optional services or allowances when establishing the CBE participation goal. If the County subsequently chooses to award any alternate items, optional services or allowances as determined by OESBD and the Contract Administrator to be related to the scope of services, OESBD may apply the established CBE participation goal. In such an instance, the County will issue a written notice to the successful Vendor that the CBE participation goal will also apply to the alternate items, optional services or allowances. Vendor shall submit all required forms pertaining to its compliance with the CBE participation goal, as applicable. Failure by Vendor to submit the required forms may result in the rejection of Vendor's solicitation submittal prior to the award or failure to comply with the contract requirements may have an impact on the vendor performance evaluation post award, as applicable.
- C. CBE Program Requirements: Compliance with CBE participation goal requirements is a matter of responsibility; Vendor should submit all required forms and information with its solicitation submittal. If the required forms and information are not provided with the Vendor's solicitation submittal, then Vendor must supply the required forms and information no later than three (3) business days after request by OESBD. Vendor may be deemed non-responsible for failure to fully comply with CBE Program Requirements within these stated timeframes.
1. Vendor should include in its solicitation submittal a **Letter Of Intent Between Bidder/Offeror and County Business Enterprise (CBE) Subcontractor/Supplier** for each CBE firm the Vendor intends to use to achieve the assigned CBE participation goal. The form is available at the following link:
<http://www.broward.org/EconDev/Documents/CBELetterOfIntent.pdf>
 2. If Vendor is unable to attain the CBE participation goal, Vendor should include in its solicitation submittal an **Application for Evaluation of Good Faith Efforts** and all of the required supporting information. The form is available at the following link:
<http://www.broward.org/EconDev/WhatWeDo/Documents/GoodFaithEffortEval.pdf>
- D. OESBD maintains an online directory of CBE firms. The online directory is available for use by Vendors at <https://webapps4.broward.org/smallbusiness/sbdirectory.aspx>.
- E. For detailed information regarding the CBE Program contact the OESBD at (954) 357-6400 or visit the website at: <http://www.broward.org/EconDev/SmallBusiness/>
- F. If awarded the contract, Vendor agrees to and shall comply with all applicable requirements of the Business Opportunity Act and the CBE Program in the award and administration of the contract.
1. No party to this contract may discriminate on the basis of race, color, sex, religion,

national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this contract.

2. All entities that seek to conduct business with the County, including Vendor or any Prime Contractors, Subcontractors, and Bidders, shall conduct such business activities in a fair and reasonable manner, free from fraud, coercion, collusion, intimidation, or bad faith. Failure to do so may result in the cancellation of this solicitation, cessation of contract negotiations, revocation of CBE certification, and suspension or debarment from future contracts.
3. If Vendor fails to meet or make Good Faith Efforts (as defined in the Business Opportunity Act) to meet the CBE participation commitment (the "Commitment"), then Vendor shall pay the County liquidated damages in an amount equal to fifty percent (50%) of the actual dollar amount by which Vendor failed to achieve the Commitment, up to a maximum amount of ten percent (10%) of the total contract amount, excluding costs and reimbursable expenses. An example of this calculation is stated in Section 1-81.7, Broward County Code of Ordinances.
4. Vendor shall comply with all applicable requirements of the Business Opportunity Act in the award of this contract. Failure by Vendor to carry out any of these requirements shall constitute a material breach of the contract, which shall permit the County to terminate this contract or to exercise any other remedy provided under this contract, the Broward County Code of Ordinances, the Broward County Administrative Code, or other applicable laws, with all such remedies being cumulative.
5. Vendor shall pay its CBE subcontractors and suppliers, within fifteen (15) days following receipt of payment from the County, for all completed subcontracted work and supplies. If Vendor withholds an amount from CBE subcontractors or suppliers as retainage, such retainage shall be released and paid within fifteen (15) days following receipt of payment of retained amounts from the County.
6. Vendor understands that the County will monitor Vendor's compliance with the CBE Program requirements. Vendor must provide OESBD with a Monthly Utilization Report (MUR) to confirm its compliance with the Commitment agreed to in the contract; timely submission of the MUR every month throughout the term of the contract, including amendment and extension terms, is a condition precedent to the County's payment of Vendor under the contract.

Supplier: Keith and Associates, Inc.

LITIGATION HISTORY FORM

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

- There are no material cases for this Vendor; or
- Material Case(s) are disclosed below:

Is this for a: (check type) <input checked="" type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, name of Parent/Subsidiary/Predecessor: Keith and Associates, Inc.
Party	Or No <input type="checkbox"/>
Case Number, Name, and Date Filed	Case No. 14-14525(12) E-Filed 01/26/2016
Name of Court or other tribunal	Circuit of the 17th Judicial Court in and for Broward County, Florida
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input checked="" type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	Keith and Associates is a third party defendant in a dispute between our client and a neighboring property owner.
Brief description of the Subject Matter and Project Involved	The neighboring property owner claims that his driveway is flooding and filed suit
Disposition of Case (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input checked="" type="checkbox"/> Dismissed <input type="checkbox"/> Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/> If Judgment Against, is Judgment Satisfied? <input type="checkbox"/> Yes <input type="checkbox"/> No
Opposing Counsel	Name: Arnstein & Lehr, LL Email: franklin.zemel@arnstein.com Telephone Number: 954-713-7600

Vendor Name: KEITH

Supplier: Keith and Associates, Inc.

AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION FORM

The completed form should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Program, including CBE, DBE and SBE goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

- No principal of the proposing Vendor has prior affiliations that meet the criteria defined as "Affiliated entities"
- Principal(s) listed below have prior affiliations that meet the criteria defined as "Affiliated entities"

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Authorized Signature Name: **Alex Lazowick**

Title: **Executive Vice President**

Vendor Name: **KEITH**

Date: **8/29/19**

Supplier: Keith and Associates, Inc.

DOMESTIC PARTNERSHIP ACT CERTIFICATION FORM (REQUIREMENT AND TIEBREAKER)

Refer to Special Instructions to identify if Domestic Partnership Act is a requirement of the solicitation or acts only as a tiebreaker. If Domestic Partnership is a requirement of the solicitation, the completed and signed form should be returned with the Vendor's submittal. If the form is not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes. To qualify for the Domestic Partnership tiebreaker criterion, the Vendor must currently offer the Domestic Partnership benefit and the completed and signed form must be returned at time of solicitation submittal.

The Domestic Partnership Act, Section 16 ½ -157, Broward County Code of Ordinances, requires all Vendors contracting with the County, in an amount over \$100,000 provide benefits to Domestic Partners of its employees, on the same basis as it provides benefits to employees' spouses, with certain exceptions as provided by the Ordinance.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Section 16-½ -157, Broward County Code of Ordinances; and certifies the following: (check only one below).

- 1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses
- 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and provide benefits to Domestic Partners of its employees on the same basis as it provides benefits to employees' spouses.
- 3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of award.
- 4. The Vendor does not need to comply with the requirements of the County's Domestic Partnership Act at time of award because the following exception(s) applies: **(check only one below)**.
 - The Vendor is a governmental entity, not-for-profit corporation, or charitable organization.
 - The Vendor is a religious organization, association, society, or non-profit charitable or educational institution.
 - The Vendor provides an employee the cash equivalent of benefits. (Attach an affidavit in compliance with the Act stating the efforts taken to provide such benefits and the amount of the cash equivalent).
 - The Vendor cannot comply with the provisions of the Domestic Partnership Act because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation (State the law, statute or regulation and attach explanation of its applicability).

Alex Lazowick, PE, PMP
Authorized Signature/Name

**Executive Vice
President**
Title

KEITH
Vendor Name

8/29/19
Date



Supplier: Keith and Associates, Inc.

AGREEMENT EXCEPTION FORM

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, it shall be deemed an affirmation by the Vendor that it accepts the terms and conditions of the County's Agreement as disclosed in the solicitation.

The Vendor must either provide specific proposed alternative language on the form below. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.

- There are no exceptions to the terms and conditions of the County Agreement as referenced in the solicitation; or
- The following exceptions are disclosed below: (use additional forms as needed; separate each Article/ Section number)

Term or Condition Article / Section	Insert version of exception or specific proposed alternative language	Provide brief justification for change

Vendor Name: KEITH

Supplier: Keith and Associates, Inc.

RFP-RFQ-RLI LOCATION ATTESTATION FORM (EVALUATION CRITERIA)

The completed and signed form and supporting information (if applicable, for Joint Ventures) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting information may affect the Vendor's evaluation. Provided information is subject to verification by the County.

A Vendor's principal place of business location (also known as the nerve center) within Broward County is considered in accordance with Evaluation Criteria. The County's definition of a principal place of business is:

1. As defined by the Broward County Local Preference Ordinance, "Principal place of business means the nerve center or center of overall direction, control and coordination of the activities of the bidder [Vendor]. If the bidder has only one (1) business location, such business location shall be considered its principal place of business."
2. A principal place of business refers to the place where a corporation's officers direct, control, and coordinate the corporation's day-to-day activities. It is the corporation's 'nerve center' and in practice it should normally be the place where the corporation maintains its headquarters; provided that the headquarters is the actual center of direction, control, and coordination, i.e., the 'nerve center', and not simply an office where the corporation holds its board meetings (for example, attended by directors and officers who have traveled there for the occasion).

The Vendor's principal place of business in Broward County shall be the Vendor's "Principal Address" as indicated with the Florida Department of State Division of Corporations, for at least six months prior to the solicitation's due date.

Check one of the following:

- The Vendor certifies that it has a principal place of business location (also known as the nerve center) within Broward County, as documented in Florida Department of State Division of Corporations (Sunbiz), and attests to the following statements:
1. Vendor's address listed in its submittal is its principal place of business as defined by Broward County;
 2. Vendor's "Principal Address" listed with the Florida Department of State Division of Corporations is the same as the address listed in its submittal and the address was listed for at least six months prior to the solicitation's opening date. A copy of Florida Department of State Division of Corporations (Sunbiz) is attached as verification.
 3. Vendor must be located at the listed "nerve center" address ("Principal Address") for at least six (6) months prior to the solicitation's opening date;
 4. Vendor has not merged with another firm within the last six months that is not headquartered in Broward County and is not a wholly owned subsidiary or a holding company of another firm that is not headquartered in Broward County;
 5. If awarded a contract, it is the intent of the Vendor to remain at the referenced address for the duration of the contract term, including any renewals, extensions or any approved

interim contracts for the services provided under this contract; and

- 6. The Vendor understands that if after contract award, the County learns that the attestation was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis exercise any contractual right to terminate the contract. Further any misleading, inaccurate, false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as outlined in the Procurement Code, Section 21.119.

If the Vendor is submitting a response as a Joint Venture, the following information is required to be submitted:

- a. Name of the Joint Venture Partnership
- b. Percentage of Equity for all Joint Venture Partners
- c. A copy of the executed Agreement(s) between the Joint Venture Partners

Vendor does not have a principal place of business location (also known as the nerve center) within Broward County.

Vendor Information:

Vendor Name: **KEITH**

Vendor's address listed in its submittal is:

**301 Atlantic Blvd.
Pompano Beach, FL 33060**

The signature below must be by an individual authorized to bind the Vendor. The signature below is an attestation that all information listed above and provided to Broward County is true and accurate.

Alex Lazowick	Executive Vice President	KEITH	7/19/19
_____ Authorized Signature/Name	_____ Title	_____ Vendor Name	_____ Date

Supplier: Keith and Associates, Inc.

RFP-RLI-RFQ LOCAL PREFERENCE AND TIE BREAKER CERTIFICATION FORM

The completed and signed form should be returned with the Vendor's submittal to determine Local Preference eligibility, however it must be returned at time of solicitation submittal to qualify for the Tie Break criteria. If not provided with submittal, the Vendor must submit within three business days of County's request for evaluation of Local Preference. Proof of a local business tax should be submitted with this form. Failure to timely submit this form or local business tax receipt may render the business ineligible for application of the Local Preference or Tie Break Criteria.

In accordance with Section 21.31.d. of the Broward County Procurement Code, to qualify for the Tie Break Criteria, the undersigned Vendor hereby certifies that (check box if applicable):

- The Vendor is a local Vendor in Broward County and:
 - a. has a valid Broward County local business tax receipt;
 - b. has been in existence for at least six-months prior to the solicitation opening;
 - c. at a business address physically located within Broward County;
 - d. in an area zoned for such business;
 - e. provides services from this location on a day-to-day basis, and
 - f. services provided from this location are a substantial component of the services offered in the Vendor's proposal.

In accordance with Local Preference, Section 1-74, et. seq., Broward County Code of Ordinances, a local business meeting the below requirements is eligible for Local Preference. To qualify for the Local Preference, the undersigned Vendor hereby certifies that (check box if applicable):

- The Vendor is a local Vendor in Broward and:
 - a. has a valid Broward County local business tax receipt issued at least one year prior to solicitation opening;
 - b. has been in existence for at least one-year prior to the solicitation opening;
 - c. provides services on a day-to-day basis, at a business address physically located within the Broward County limits in an area zoned for such business; and
 - d. the services provided from this location are a substantial component of the services offered in the Vendor's proposal.

Local Business Address: **301 E Atlantic Blvd
Pompano Beach, FL 33060**

Vendor does not qualify for Tie Break Criteria or Local Preference, in accordance with the above requirements. The undersigned Vendor hereby certifies that (check box if applicable): The Vendor is not a local Vendor in Broward County.

Alex Lazowick	Executive Vice President	KEITH	8/29/19
AUTHORIZED SIGNATURE/NAME	TITLE	COMPANY	DATE

Supplier: Keith and Associates, Inc.

**SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT FORM
Request for Proposals, Request for Qualifications, or Request for Letters of Interest**

The following forms and supporting information (if applicable) should be returned with Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

- A. The Vendor shall submit a listing of all subcontractors, subconsultants and major material suppliers (firms), if any, and the portion of the contract they will perform. A major material supplier is considered any firm that provides construction material for construction contracts, or commodities for service contracts in excess of \$50,000, to the Vendor.
- B. If participation goals apply to the contract, only non-certified firms shall be identified on the form. A non-certified firm is a firm that is not listed as a firm for attainment of participation goals (ex. County Business Enterprise or Disadvantaged Business Enterprise), if applicable to the solicitation.
- C. This list shall be kept up-to-date for the duration of the contract. If subcontractors, subconsultants or suppliers are stated, this does not relieve the Vendor from the prime responsibility of full and complete satisfactory performance under any awarded contract.
- D. After completion of the contract/final payment, the Vendor shall certify the final list of non-certified subcontractors, subconsultants, and suppliers that performed or provided services to the County for the referenced contract.
- E. The Vendor has confirmed that none of the recommended subcontractors, subconsultants, or suppliers' principal(s), officer(s), affiliate(s) or any other related companies have been debarred from doing business with Broward County or any other governmental agency.

If none, state "none" on this form. Use additional sheets as needed. Vendor should scan and upload any additional form(s) in BidSync.

1. Subcontracted Firm's Name: **Moffatt Nichol**

Subcontracted Firm's Address: **100 W Cypress Creek Rd, Suite 960**

Subcontracted Firm's Telephone Number: **954-622-8100**

Contact Person's Name and Position: **Jaime Pabon, Senior Environmental Scientist**

Contact Person's E-Mail Address: **jpabon@moffattnichol.com**

Estimated Subcontract/Supplies Contract Amount: **TBD**

Type of Work/Supplies Provided: **Seaport / Marine**

2. Subcontracted Firm's Name: **CPZ Architects**

Subcontracted Firm's Address: **4316 W Broward Blvd, Plantation, FL 33317**

Subcontracted Firm's Telephone Number: **954-792-8525**

Contact Person's Name and Position: **Chris Zimmerman, President**

Contact Person's E-Mail Address: **chris@cpzarchitects.com**

Supplier: Keith and Associates, Inc.

VOLUME OF PREVIOUS WORK ATTESTATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to provide timely may affect the Vendor's evaluation.

This completed form MUST be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Work will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.	Professional Services for Airport Utilities and Pavements	Z11225301P1	BCAD	2015	\$2,773,812.73	\$521,027.97
2.	Continuing Engineering Services: Water Distribution, Wastewater and Stormwater Collection	R1404111P1	BCWWS	2017	\$185,234.72	\$54,421.81
3.	Long Key Nature Center	R1404111P1	BC Parks	2017	\$19,400.00	/
4.	BB&T Arena Survey	P1019501B1	BC Commission	2018	\$4,717.50	/
5.						
6.						

7.						
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Grand Total **2,983,173.95** **575,449.78**

Has the Vendor been a member/partner of a Joint Venture firm that was awarded a contract by the County?

Yes No

If Yes, Vendor must submit a **Joint Vendor Volume of Work Attestation Form**.

Vendor Name: Keith and Associates, dba KEITH

Alex Lazowick, PE, PMP
Authorized Signature/Name

Executive Vice President
Title

9/5/19
Date

VOLUME OF PREVIOUS WORK ATTESTATION JOINT VENTURE FORM

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture. Points assigned for Volume of Previous Work will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.31.d. of the Broward County Procurement Code, the Vendor with the lowest dollar volume of work previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							

Grand
Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name:

Authorized Signature/Name

Title

keith-associates
Date

Supplier: Keith and Associates, Inc.

Security Requirements – Port Everglades

- A. The Port Everglades Department requires persons to present, at port entry, a valid driver's license, and valid reason for wishing to be granted port access in order to obtain a temporary/visitor ID badge. For persons who will visit the Port more than 15 times in a 90 day period, a permanent identification badge must be obtained and paid for by the contractor for all employees, subcontractors, agents and servants visiting or working on the port project. A restricted access badge application process will include fingerprints and a comprehensive background check. Badges must be renewed annually and the fees paid pursuant to Broward County Administrative Code, Section 42.6. For further information, please call 954-765-4225.
- B. All vehicles that are used regularly on the dock apron must have a Dockside Parking Permit. Only a limited number of permits will be issued per business entity. The fee is \$100.00 per permit/vehicle. Individuals requesting a permit must possess a valid Port-issued Restricted Access Area badge with a "Dock" destination. Requests for Dockside Parking Permits must be submitted in writing, on company letterhead, to the ID Badge Office. Applicants must demonstrate a need for access to the dock apron. Requests shall be investigated, and approved, if appropriate justification is provided. Supporting documentation must be supplied, if requested. Dock permits are not transferable and must be affixed to the lower left corner of the permitted vehicle's windshield. Should the permit holder wish to transfer the permit to another vehicle during the term of issuance, the permit will be removed and exchanged at no charge for a new permit. Only one business entity representative will be permitted on the dock at a time at the vessel location.
- C. The Federal Government has instituted requirements for a Transportation Worker Identification Credential (TWIC) for all personnel requiring unescorted access to designated secure areas within Port Everglades. The contractor will be responsible for complying with the applicable TWIC requirements. For further information, please call 1-855-347-8371, or go on line to <https://www.tsa.gov/for-industry/twic>.