

CITY OF FORT LAUDERDALE



**RFO/EVENT #223
CRITICAL STORMWATER INFRASTRUCTURE CONDITION ASSESSMENT
PROGRAM CONTINUING SERVICES CONTRACT
FEBRUARY 23, 2024**

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HOTEL

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4.2.2 EXECUTIVE SUMMARY

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City of Fort Lauderdale

RFQ/EVENT #223

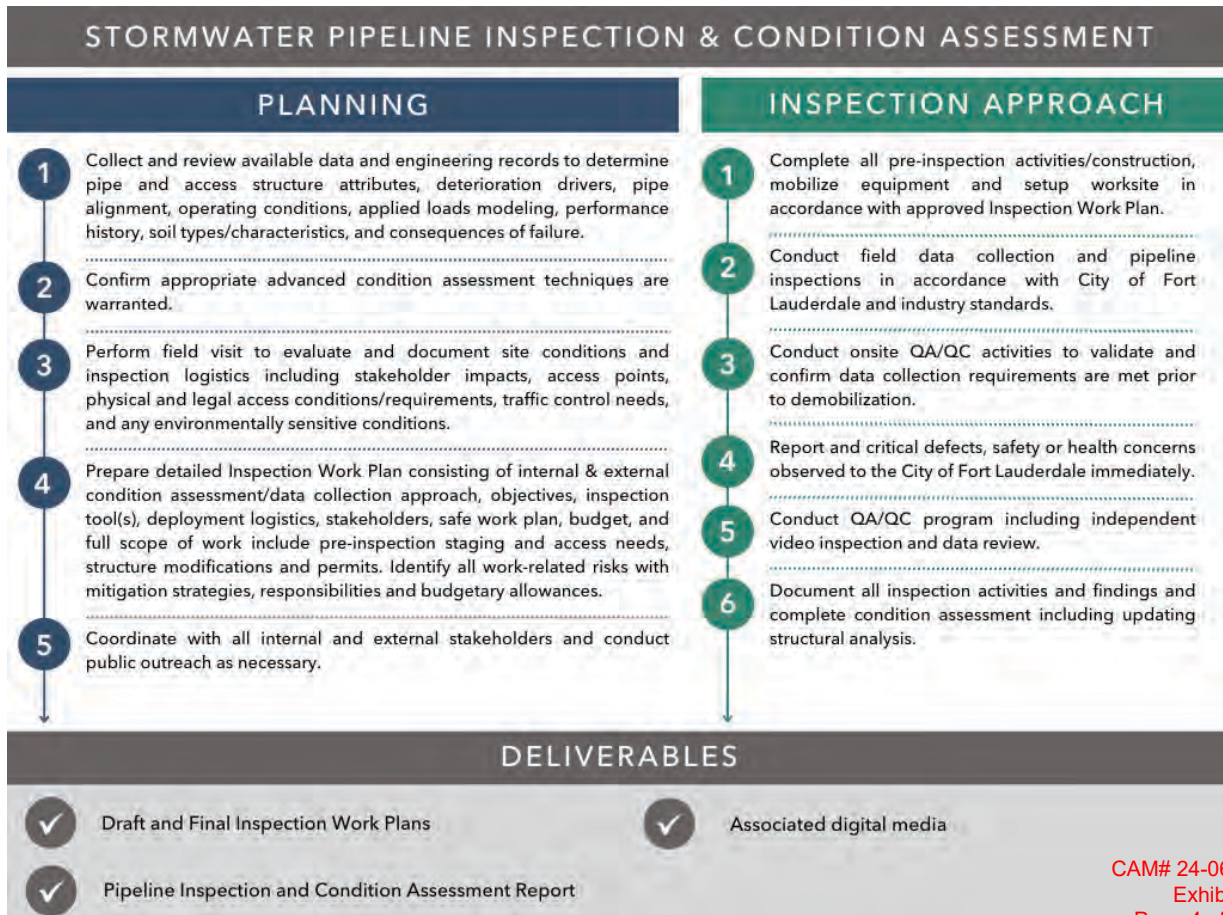
Critical Stormwater Infrastructure Condition Assessment Program Continuing Services Contract

February 19, 2024

Dear Selection Committee Members,

It is with great pleasure that Keith and Associates, Inc., dba KEITH, provides you our response to RFQ/EVENT #223 Critical Stormwater Infrastructure Condition Assessment Program Continuing Services Contract. In our proposal, you will see that the KEITH Team will provide the City of Fort Lauderdale with a highly skilled and experienced team with the ability and expertise in providing high-quality services on time to the City. The City of Fort Lauderdale has continued to reshape the community by reinvesting in the public realm. We applaud the City of Fort Lauderdale for continuing to value key assets for the community to ensure the future success of its residents and guests.

The KEITH Team has considerable expertise in performing pipeline condition assessment, using this information to help our clients make a variety of million-dollar decisions related to what asset should be replaced or rehabilitated and, most importantly, when. Advanced condition assessment utilizing state-of-the-art tools and techniques is often costly and when conducted without a structured and holistic approach, municipalities will incur high costs without getting the right information to make smart decisions. Our approach has been crafted by our technical experts and our team has decades of experience performing holistic and structured condition assessments for clients in North America and globally. We understand that different approaches are necessary for stormwater pipes, as well as for gravity rehabilitation versus pressure pipes. We are experienced in helping our clients make decisions as to how to best access, inspect, and condition assess their assets. Using the structured approach outlined below, we can identify potential challenges associated with projects early on and work collaboratively with the City to identify the most appropriate path forward to ensure asset inventory, data collection, and condition assessment activities can be tracked, managed, and completed effectively.



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As one of the veteran consulting civil engineering firms in the community, KEITH is extremely qualified to meet your needs. We have provided our professional services on various key projects within the City, and currently hold both the City's General Civil Engineering contracts. Our staff's familiarity with City Staff, utility representatives, local conditions and the City's unique and diverse community provides us valuable insight into your project needs and requirements.

KEITH is a mid-size, close-knit firm of more than 200 professionals, led by CEO, Dodie Keith-Lazowick, PLS, and President, Alex Lazowick, PE, PMP, ENV SP. KEITH has proudly called Broward County home for over 60 years, with a headquarters in Pompano Beach, and has a total of 5 offices across the State including Miami-Dade, West Palm Beach, Orlando, and Port St. Lucie. This contract will be serviced from our Broward County Headquarters office in Pompano Beach.

KEITH provides a full range of engineering and management services including civil engineering, transportation and engineering, surveying and mapping, subsurface utility engineering, planning, landscape architecture, and construction management services. The firm was founded on the principle of achieving success by combining the latest technology with client-oriented business practices, and a staff of experienced, talented professionals.

Throughout the firm's more than sixty-year history, KEITH has been awarded over 75 continuing services contracts as a prime and subconsultant. Our team's familiarity with providing similar services to many municipalities across Florida and our relationship with local agencies and utility companies provides us with valuable insight into your potential project needs and requirements. For this contract, Dwayne Vaughn, PE, will hold the responsibility of Program Manager, with the support of Jeff Atherton, M.Sc, A.Sc.T., PMP, as Deputy Program Manager.

We believe that building relationships is what it takes to truly understand the concerns of our clients and professionally address them. We take pride in building long-lasting relationships and acting as a fully competent extension of your staff. Moreover, our involvement in the community extends well beyond the profession, as we are active in various organizations on a philanthropic and community support level. This support is witnessed in the time, talent, and treasure that KEITH continues to give back.

We have put together a well-rounded team of local professionals, inclusive of M/WBE firms that are exceptional in their respective disciplines, to ensure that all the City's needs under this contract are met with the highest standard of excellence. Our team includes AECOM, The Engineering Company, PCI Stormwater Solutions, Inc., and CMTS.

KEITH recognizes that our primary responsibility in this contract will be to provide accurate and timely responsive service, as individual work orders are issued by the City. Careful consideration of particular project conditions, scopes, and the assignment of a responsive point of contact are necessary components in developing innovative project solutions and procedures to complete the project most efficiently and to maximize the City's benefit.

The KEITH Team has been curated to provide this balance between context and forward-thinking ideas, practical experience, and commitment to excellence, which aims to support the City of Fort Lauderdale in this continuing services agreement. We bring to you the personal commitment of ourselves, our firm, and our long-standing reputation of accountability. The professionals of KEITH continue to take great pride in the success of their undertakings. We look forward to the opportunity to provide you with professional services.

Best Regards,



Alex Lazowick, PE, PMP, ENV SP - President
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4.2.3 FIRM QUALIFICATIONS & EXPERIENCE

PRACTICE LINES

Our Practice Lines were created to place an emphasis on the communities that we bring to life. Each Practice Line is interconnected, providing critical infrastructure, connectivity, and gathering places to allow meaningful life stories unfold. We focus on the unique and diverse needs of our clients and the communities in which they reside.

LIFE

STORIES
we create the stage for everyday moments; expected and unexpected

ACCESS

CONNECTING
people with people; goods with people; industries with people

CAMPUS

GATHERING
creating environments to learn, to worship, to debate, and to heal

PLAY

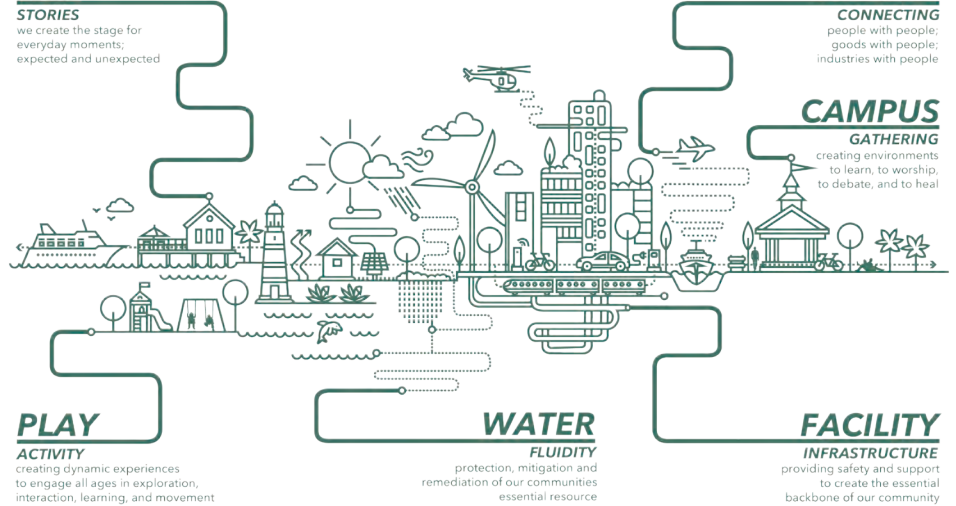
ACTIVITY
creating dynamic experiences to engage all ages in exploration, interaction, learning, and movement

WATER

FLUIDITY
protection, mitigation and remediation of our communities essential resource

FACILITY

INFRASTRUCTURE
providing safety and support to create the essential backbone of our community



KEITH'S MISSION:
TO CREATE, EXPAND UPON, PRESERVE, AND ENHANCE OUR COMMUNITIES.

For more than six decades, KEITH has been providing design solutions throughout the State of Florida, the Caribbean, and beyond. Our firm was built on the basic principle of serving as an advocate for the communities in which we build, we live, and we give back to. As a trans-disciplinary firm, KEITH provides creative solutions to each project and the communities in which they serve. The firm provides resilient and sustainable design solutions for municipal agencies, private clients, and the Florida Department of Transportation.

KEITH engages as an extension of our clients, with an analytical lens and a goal to resolve development issues in a collaborative way; one that goes beyond the disciplines we provide. KEITH takes what might be considered mundane and transforms it by considering it through our unique lens, reshaping each project so that it's more than just functional, it's sustainable.

The KEITH Team has performed a wide variety of work for local municipalities, counties, and state agencies. Our experiences have resulted in thorough knowledge, practice of standards, and how to apply them with a practical and logical approach to problem solving. It has also allowed our team to "get connected" to municipality staff. KEITH believes that building these relationships is what it takes to truly understand the concerns of the City and address them in a professional manner that is personal to the City of Fort Lauderdale and the residents. We take pride in building long-lasting relationships and acting as a fully competent extension to our client's staff.

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 project. 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.

KEY STAFF



PROGRAM MANAGEMENT



Principal-in-Charge
Alex Lazowick, PE, PMP, ENV SP



GIS/Survey Technical Advisor
Sam Hall, PSM



QA Officer & Community Specialist
Thomas Green, PE



CEI Technical Advisor
Jonathan Weymouth, PE



Program Manager
Dwayne Vaughn, PE



Civil Technical Advisor
Stephen D. Williams, Sr., PE



Deputy Program Manager
Jeff Atherton, M.Sc, A.Sc.T., PMP

Our team has been carefully crafted, providing technical advisors overseeing each service area.

KEITH CONTINUING SERVICE EXPERIENCE

Managing an on-call contract is difficult for those without experience. KEITH has provided general services for hundreds of on-call contracts with various municipalities and governments throughout the State of Florida. Our staff is extremely well-versed in the nuances of servicing these contracts, understanding the unique characteristics of each community, and curates a team to successfully accomplish our goal in a timely, cost-effective manner with the highest of standards maintained. The KEITH Team is currently managing 30+ continuing services contracts with various municipalities providing geospatial services, civil engineering, planning, landscape architecture, and construction management services. These contracts include:

- Broward Schools – Program Management
- Broward Aviation – Program Management
- City of Fort Lauderdale General Engineering
- City of Coconut Creek General Engineering
- City of Deerfield Beach General Engineering
- City of Hallandale Beach General Engineering
- City of Hollywood General Engineering
- City of Oakland Park General Engineering
- City of Sunny Isles Beach General Engineering
- BCWWS General Engineering

KEITH has the administrative know-how and the staff capacity to manage large and small work authorizations, the management skills to know when to engage, and the technical expertise to ensure top-quality is always delivered on time and under budget to the City.



Engineering Inspired Design.

CONTINUING SERVICES CONTRACTS

BROWARD COUNTY

- Broward College
- Broward County
- Broward County Aviation
- City of Coconut Creek
- City of Cooper City
- City of Coral Springs
- City of Dania Beach
- City of Deerfield Beach
- City of Fort Lauderdale
- City of Hallandale Beach
- City of Hollywood
- City of Lauderdale
- City of Margate
- City of Miramar
- City of Oakland Park
- City of Parkland
- City of Plantation
- City of Pompano Beach
- City of Sunrise
- Memorial Health Care
- Nova Southeastern University
- Pompano Air Park
- Seminole Tribe of Florida
- Town of Davie
- Town of Pembroke Park
- Town of Southwest Ranches

MIAMI-DADE COUNTY

- City of Aventura
- City of Coral Gables
- City of Miami
- City of Miami Beach
- City of Sunny Isles Beach
- Miami-Dade County
- Town of Surfside
- Village of Key Biscayne

PALM BEACH COUNTY/ TREASURE COAST

- Brevard County
- City of Boca Raton
- City of Delray Beach
- City of Riviera Beach
- City of Port St. Lucie
- City of West Palm Beach
- Florida Atlantic University
- Martin County ARPA
- Martin County
- Palm Beach County
- Palm Beach County Airports
- Palm Beach State College
- SFWMD

CENTRAL FLORIDA

- City of Daytona Beach
- City of Orlando
- City of Sanford
- City of Titusville

LEON COUNTY

- Blueprint Tallahassee
- City of Apalachicola

HILLSBOROUGH COUNTY

- City of Tampa

FLORIDA DEPARTMENT OF TRANSPORTATION

- FDOT D4
- FDOT D6

TRANSDISCIPLINARY SERVICES



GEOSPATIAL ENGINEERING

The KEITH Team believes that one of the key elements of design is discovering unknown physical elements, utilities, easements, potential utility relocations, or any other site encumbrances. It is imperative to have the best information before embarking on any land development effort as this will limit disruption to future development activities from design through construction. Our Geospatial team focuses on survey and subsurface utility engineering (SUE) brings decades of experience combined with best-in-class technology including mobile LiDAR. Our field crews are cross trained to have both survey and utility experienced personnel on each crew allowing us to expand crews, if necessary. This added flexibility allows our teams to provide increased efficiency and client response times.

- **Survey** - The KEITH Team has completed and performed similar assignments for consulting service contracts which include numerous surveys for horizontal and vertical geodetic control surveys, construction layout and as-builts, topographic,

digital terrain models (DTM), boundary determination, ALTA, trees, and other special purposes for the preparation of maps, plats, sketches, and legal descriptions. Data is collected using a wide variety of equipment from traditional levels and total stations, GPS units, static and Terrestrial Mobile LiDAR (TML) scanners and the drone, a remote-controlled boat used for hydrographic surveys, the final surveying and mapping deliverables are provided in AutoCAD or MicroStation files.

- **Subsurface Utility Engineering** - The KEITH Team provides the ability to research, locate, and map subsurface elements in an accurate method to provide a thorough understanding of what lies beneath. Primarily the intent is to coordinate existing utility locations, however, the team might also locate foundations, buried tanks, and other unknown underground elements. Through use of Ground Penetrating Radar (GPR), test holes, and other exploration techniques the data collected can be invaluable to coordinating any development project.
- **GIS Mapping** - The KEITH Team provides an unparalleled, multi-disciplinary team of Professional Surveyors and Mappers (PSM), GIS Professionals (GISP), CAD/GIS technicians and programmers all with hands on experience. We offer a team of experienced practitioners who understand the full system development life cycle and the importance of approaching each project systematically in this regard. Our team has been working in association with regional municipalities for more than 10 years to provide information, develop, and improve CAD/GIS functionality for these City partners. We routinely apply CAD/GIS tools and techniques to standardize not only an efficient workflow, but a seamless communication process with each city. Our team has extensive experience working with and managing municipalities' internal and web-based GIS products. We have direct partnerships with ESRI and are fully trained and experienced with the entire ESRI catalog including ArcMap, ArcGIS Pro, ArcGIS Online, Collector for ArcGIS and Survey123 for ArcGIS. We understand the unique challenges inherent in GIS databases created from a mixture of record data, field observations and new construction documents. Our team proposes a three-prong approach that will operate concurrently to efficiently review the current status of the GIS information, update the data and improve software, and to train the City's staff on the new software and solutions to manage the GIS system and information for the future.

CIVIL ENGINEERING

The KEITH Team has the expertise to provide a wide variety of general and detailed civil engineering services to respond to the diverse needs within a community. KEITH staff have provided comprehensive engineering services involving many government agencies, institutions, and municipalities. These many years of collective experience mean that the concerns of the City regarding project development will be taken into consideration throughout the entire design and construction processes. 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.

- **Stormwater Management** – KEITH has the knowledge and proven abilities to understand the complex nature of stormwater management with low-lying areas and their susceptibility to high tide and regular rain event flooding. KEITH is familiar with this challenge and the many potential stormwater improvement solutions.

KEITH is cognizant of the balance that 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. KEITH has successfully implemented Light Detection and Ranging (LiDAR) information for initial topographic investigation and determine key problem low areas and applied either ICPR or the EPA SWMM software models to analyze many projects with similar characteristics found in South Florida. In addition, we are routinely evaluating the National Pollutant Discharge Elimination System (NPDES) Program, and the requirements to implement it for other municipalities.

- **Water Distribution and Sanitary Sewer Collection System Services** – KEITH has vast experience with studies, designs, permitting, and construction administration tasks associated with water distribution and sanitary sewer collection systems. Our team has successfully worked with several South Florida utility providers and has been able to implement their engineering standards into the overall design to achieve permitting. KEITH has designed several sanitary sewer collection systems ranging from gravity collections to pressurized collection and transmissions systems including public and private pump stations, and our team is also familiar with low pressure systems. These systems have been designed and completed throughout Broward and Miami-Dade County. KEITH construction administration staff has the 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 Fort 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. KEITH also has expert knowledge of all the latest construction methods being used by different municipalities to achieve project completion such as pipe bursting, directional drill, and other trenchless technologies.
- **Plan Development** – KEITH has developed numerous site plans to respond to the needs of the surrounding environment from a civil engineering perspective.

CONSTRUCTION PROGRAM MANAGEMENT

From contract administration to construction quality management, we're on top of it, ensuring quality assurance measures are employed to control and verify construction, material, and product standards. KEITH is committed to delivering an effective level of oversight and stewardship of any construction program. We focus on program practices and techniques that add value and help ensure effective oversight and acceptable accountability.

KEITH has provided construction-related services for projects ranging from airport facilities, residential communities, commercial projects, and recreational parks, including structures, terminals, roadways, parking lots, and utility infrastructures. We believe the best construction management practice is to maintain a close working relationship with all parties involved and respond quickly and effectively to any issues that arise. This approach, coupled with our experience and knowledge, offers our clients the opportunity to reduce or eliminate cost overruns and delays during construction.

- **Construction Program Management** - Our inspection staff members are CTQP (Construction Technician Qualification Program) certified. From construction managers to technical inspection personnel, our highly efficient team has the flexibility to support municipalities and State agencies. We provide an array of Construction Engineering and Inspection services including contract administration, construction management, document control, utility coordination, observations/inspections, schedule and cost controls and contract close-out certifications. The unique ability to understand and recognize both construction constraints and the processes required for a successful project is what defines the KEITH CEI Team.

UTILITY COORDINATION

The KEITH Team is comprised of experts who will coordinate with utility agencies throughout Florida. Many of our team members are former employees of these agencies. As a result, from the initial contact to the final stages of development our team is very capable of getting the job done. Typically, these agencies include Florida Power and Light, TECO, Comcast, AT&T, Verizon, and similar power, communication, TV Cable, fiber-optic, and gas companies.

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Our team will ensure that the record drawings and proposed design plans from utility owners will be reviewed from the start and coordinated through development phase and the construction process.

PUBLIC ENGAGEMENT

Successful public involvement for a project must meet the needs and values of the residents, business owners, elected officials and all stakeholders within the City. Meaningful two-way communication with all parties is critical to building trust, understanding and consensus between the impacted stakeholders, City officials and the KEITH Team.

If necessary, the KEITH Team will meet with the City Project Manager (PM) and the consulting PM to better understand the project scope and prepare a Public Involvement Plan (PIP) within 10 calendar days after Notice to Proceed. The PIP maps out the outreach plan to ensure all stakeholders weigh in on critical project components. Our team uses email, mail, social media, project websites, special events, and public forums to reach the City's residents. We will build a database of City officials, senior staff, property owners, business owners, places of worship, residents, and organizations that utilize the study area.

KEITH understands that when it comes to public engagement, there is no one-size-fits-all approach. We realize how important it is to reach all residents, including low income, limited English speakers, young adults, and senior citizens. We also understand the evolving need to communicate in a remote or virtual setting due to social distance concerns associated with the COVID-19 scenarios. We have led several projects through various forms of community involvement. Depending on the project need, location and complexity, our team can coordinate a variety of items from meeting notification, website development, signage/advertisement, presentations and more.

ABILITY TO MEET TIME AND BUDGET

KEITH understands it is imperative to have senior staff members overseeing the planning, major design, and construction components of all projects. This corporate philosophy results in extremely efficient and responsive project management, as well as superior project designs prepared on time and within budget. We are committed to providing our most highly qualified professionals to all projects, which will provide effective and responsive service to the City of Fort Lauderdale. 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. KEITH has completed numerous contracts similar to this RFQ. Combining our local knowledge and input from key subconsultant partners, on the elements needed to plan and execute any tasks under this continuing services contract. We are confident we will complete work authorizations within the time and budget allotted.

SUSTAINABLE PRACTICES

KEITH is devoted to improving the built and natural environments of which we are fortunate to be a part of; and for our Team, that starts at our home offices. Sustainability requires a more holistic approach than before; one that looks at a triple bottom line from economic, social, and ecological aspects. At KEITH, we design infrastructure to give back and the overall development is responsible. Our focus as designers is to be stewards of the land and assist our clients in seeing their projects through a sustainable lens. Additionally, our team is committed to recycling programs and typical standards to eliminate excessive use and waste. We seek to utilize the most energy efficient systems and to minimize the need for travel and our carbon footprint through the use of technology. Our team understands the importance of community and is involved in a number of non-profit organizations that focus on the homeless, single moms, as well as organizations like Birch State Park and the Riverwalk in order to do our part in assisting in the preservation of both people and place in the areas we are privileged to work within. For our team, sustainability is more than a recycling program or a non-print email signature, we seek to make an impact that embraces the full community that in turn supports us.



YOUR PROGRAM MANAGER

When approaching any work order assigned, certain factors and initiatives are always considered and implemented. Mr. Dwayne Vaughn, PE, will serve as the Program Manager for this contract. Mr. Dwayne Vaughn is a results-oriented professional offering 39 years of broad technical experience in the areas of water resources, aviation, rail transit, and roadway transportation programs with the last 21 years focused on program management, design management and construction management. He has extensive experience in management of governmental contracts acting in an owner's rep, construction manager and/or program manager capacity. During his career, Mr. Vaughn also provided preliminary engineering services on several large rail transit projects both nationally and internationally. He also assisted in the management of Intermodal program developments both in Broward and Dade counties in Florida. Mr. Vaughn also has General Engineering Consulting experience on FDOT programs. As a Registered Professional in the states of Florida and Hawaii, and with a Bachelor of Engineering degree in Civil Engineering, Mr. Vaughn is driven by new challenges and a desire to be successful through a hands-on, team-building management approach. He 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 Management Experience

- Program Management - South Runway Expansion
- Project Management - Automated People Mover Project Development & Environmental (PD&E) Study
- Project Management - Miscellaneous A/E Services Contract
- Owner's Representative - LYNX Hangar Project
- Construction Project Management - New Maintenance Facility
- Construction Engineering Inspection - Terminal 5 Development Program
- Miami Intermodal Center (MIC) Program Management

Dwayne's Program Management 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 program 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 the City of Fort Lauderdale.

We have a keen understanding of the many challenges that can be encountered in a program such as this. Accordingly, we have assembled a program team with broad capabilities and depth of experience to address any needs that may arise. KEITH and its team of professional consultants know and understand the City of Fort Lauderdale. These many, many years of collective experience mean that the City's concerns with project development will be taken under consideration throughout the entire design and construction process.

As the prime consultant, the KEITH Team will implement a rigorous communication protocol among all project participants. The basis of our management approach focuses on managing communication between our team and the City, as follows:

- Provide a Single Point of Contact - Having a single point of contact for the City to increase constructive communication and work as an extension of the City. In this contract, we have assigned Dwayne Vaughn, PE, as the Program Manager. Dwayne will be assigned in this capacity for the life of the contract to assure continuity and reliability to City staff.
- Establish the involved group of stakeholders and provide clear lines of communication to all involved in the project(s).
- Understand the objectives of each 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 City staff.

Our approach to this Project Management Plan (PMP) is one that has proven successful with many projects. We will schedule all meetings in coordination with the City of Miramar staff, conduct meetings, provide agendas and meeting materials, record and submit minutes for review/approval, and then distribute those minutes to the appropriate parties.

KEITH CORPORATE INFORMATION

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www.keithteam.com

YOUR CONTACTS

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ALazowick@keithteam.com

Dwayne Vaughn, PE
Program Manager
DVAughn@keithteam.com



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CITY OF BALTIMORE STORMWATER ASSESSMENT MANAGEMENT

Baltimore, MD | Ongoing

Client:
City of Baltimore Department of Public Works

Contract Amount: \$4,000,000

This on-call contract provides the City of Baltimore Department of Public Works, Office of Asset Management with comprehensive support for a variety of activities that are essential to the management, maintenance, and operation of the City's stormwater infrastructure, including the stormwater conveyance system, stormwater management facilities and green infrastructure.

Project Approach:

AECOM is contracted by the City of Baltimore Department of Public Works, Office of Asset Management (OAM), to provide on-call engineering services for stormwater asset management under Project No. 1290, On-Call Stormwater Asset Management Engineering Support. AECOM's scope of services include support for stormwater inspection & condition assessment, maintenance & repair, Geographic Information Systems (GIS), hydraulic & hydrologic modelling, emergency response, risk modelling, design, and training and public outreach, as well as other as needed and urgent services. AECOM is providing as-needed inspection & condition assessment support for the City's stormwater conveyance system using a variety of GIS technologies. GPS-based applications such as Survey123, Field Maps, and custom dashboards are being used to effectively capture, process, and deliver real-time metrics for a variety of field efforts. Ongoing storm drain condition assessment work is being conducted by AECOM and subcontractors using CCTV and other technologies.

Best Practice of Innovative Approach

AECOM has led the development of a custom, GIS-based mobile applications in Survey123 is being used for BMP evaluations, as well as the inspection & condition assessment of approximately 500 BMPs throughout the City. AECOM is responsible for all application support, data management, data validation & quality control, and the reporting activities under this inspection effort. AECOM is teaming with the Office of Compliance & Research (OCR) City inspectors to transform the erosion and sediment control inspection program into a fully digital workflow built on Survey123 under this contract. Similar work was completed for the inspection of over 1,800 stormwater outfalls across the City.

This multi-form survey and reporting workflow was designed using Maryland Department of Environment (MDE) 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control. AECOM is also currently leading the development

of an asset risk framework for City stormwater assets in support of the development of a condition assessment prioritization strategy for storm drains.



STORM DRAIN INVENTORY & CONDITION ASSESSMENT

Prince George's County, MD | 2021

Client:

Prince George's County (MD) Department of Public Works & Transportation

Contract Amount: \$1,000,000

AECOM served as a prime consultant on two consecutive Task Orders for the Prince George's County Department of Public Works & Transportation (DPW&T) under the Storm Drain Inventory (SDI) program. Highly trained, well-equipped field crews, customized tools and applications, and innovative data collection and analytic techniques were keys to the success under this asset inventory and condition assessment-driven project. Under this effort, AECOM is provided comprehensive inventory, mapping, inspection, and condition assessment services for the County's stormwater collection, conveyance, and treatment systems, as well as a variety of technical support services related to GIS, data collection, data & asset management, and quality control support.



Project Approach:

Using customized, mobile GIS applications and advanced equipment, AECOM conducted stormwater infrastructure inventory, inspection, and condition assessment for two watersheds within Prince George's County. Responsibilities included collection of inventory data for various classes of stormwater assets, including asset types, invert elevations, structure dimensions, configurations, and materials, as well as performing a condition assessment for those structure that were accessible. In addition, the crews confirmed the connectivity and status of the entire network within the designated watersheds. For previously unmapped assets, AECOM crews captured asset location, configuration and connectivity in the field using GPS.

Under this project, AECOM has inspected a total of 28,500 stormwater structures, and inventoried 1.85 million linear feet of storm conveyance six inches or greater in diameter. Storm inspection data was collected with the use of a data-streaming tablet running Esri's Collector application customized by the client for our field inspection staff. This application

utilizes a NPDES database that is securely hosted in a Cloud environment, which allows for inspection data to be synchronized in real time; this allowed for data to quickly be made available to staff in the office, where it was reviewed in more detail for quality control to ensure accuracy, completeness, and consistency. This application utilizes built-in constraints for data types and fields requiring values, ensuring efficient data entry and accurate, consistent data that complies with NPDES and DPW&T GIS data standards.

Best Practice of Innovative Approach

AECOM provided GIS support to the quality control process through a custom developed QC plug-in for ArcGIS Pro. AECOM was able to methodically review the completed inspections by running QC checks provided in the tool. With data hosted in real-time, these checks are be run on the same dataset as was being collected to in the field. Flagged issues were either addressed and edited in office or returned to the field crew as revisits to gather additional information. The client was then able to reconcile and post the reviewed field collection data, including photo documentation, to the centralized database.

PLANTATION ZONE 2 DRAINAGE STUDY

Plantation, FL | Ongoing

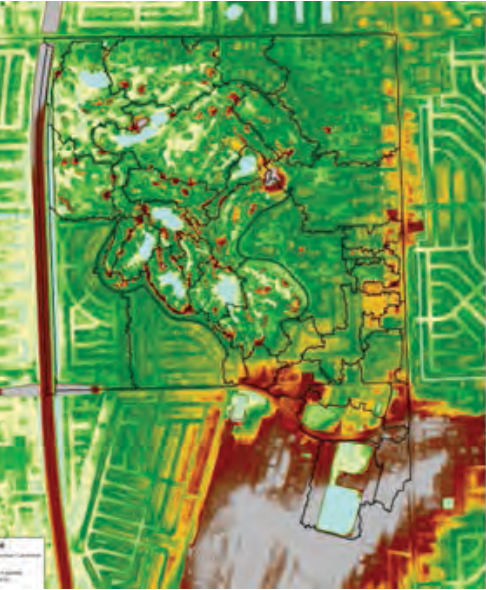
Client:

City of Plantation

Brett Butler, City Engineer

(954) 797-2647, bbutler@plantation.org

Contract Amount: \$97,000



The KEITH Team was successfully retained to provide a full range of engineering services for the City of Plantation Drainage Zone 2 to provide an evaluation of the existing stormwater system and develop a Capital Improvement Program (CIP) specifically for this Drainage Zone. The CIP will consist of a set of short and long-term projects to address current flooding issues and help the community build resiliency for the

future impacts of climate change. The final product will be compiled in a Stormwater Master Plan.

South Florida has historically been subject to hurricanes and coastal storm events given its location and more recently has become increasingly vulnerable to the adverse impacts of climate change. KEITH, we understand the importance of flood resiliency to prevent loss of life and financial hardship and enable municipalities and service providers to maintain and/or restore service to residents and customers during and after a disaster.

The Stormwater Master Plan will involve input from the public, City officials, City staff, and other stakeholders. KEITH will leverage its expertise in hydrology and hydraulics modeling to evaluate the overall existing stormwater system, identify potential areas at risk of flooding and evaluate future required stormwater system upgrades in order to improve the flood resiliency for the City and its residents.

The community and all stakeholders are at the center of each of KEITH's projects. Hence, we dedicate ourselves to carrying out our projects in close collaboration and constant communication with all stakeholders through project meeting, timely coordination, and public outreach. Each phase deliverable will be submitted for review and KEITH will incorporate and address concerns within the established timeframes indicated in the contractual documents.

The KEITH Team will carry out a thorough review of existing available information obtained from online sources and provided by the Client to build an accurate and reliable hydrology and hydraulic model for this stormwater master plan study. KEITH will take on the responsibility of developing two models: the "Existing Conditions Model" and the "Proposed Conditions Model." Utilizing the Interconnected Ponds Routing (ICPR) modeling software, the team will prepare these models for the 700 acres study area limited by the Turnpike on the west, W Broward Blvd. on the north, State Road 7 on the east and Peters Road on the south. These models provide a comprehensive understanding of the stormwater dynamics in the region and enables the team to make informed decisions about the proposed improvements. This crucial task will be optimized by exploiting the capabilities of Geographic Information Systems (GIS) to process large data and more efficiently build the model.

The product of the first modeling task consists of assessing the current status of the stormwater system and identifying potential problem areas. The preliminary problem areas will be presented and reviewed with the stakeholders to gain their valuable understanding on areas that might be overlooked by the model results and present them with potential new areas that the model results will help to identify. These problem areas will be the main focus of the remaining effort. Multiple alternatives will be assessed to determine the most efficient and cost-effective set of short and long-term improvements to suit the 700-acres study area with the necessary measures and infrastructure to stand extreme weather conditions and future development.

KEITH understands the unique nature of South Florida stormwater systems and is aware of the permitting process and procedures of the two local Water Management Districts that serve the City, as well as Broward County and South Florida Water Management District (SFWMD). The proposed improvements prepared by KEITH will adhere to the respective federal, state and local regulations to meet water quality and quantity requirements.

The final report will build upon past studies and models, data, permit conditions, and recently completed and ongoing projects and initiatives. The culmination of the study's effort will be presented in the new and comprehensive stormwater master plan that establishes a policy framework, integrates resiliency, conducts vulnerability analysis, and provides a prioritized improvement program that ensures the integrity of the City's future is protected for the generations to come.

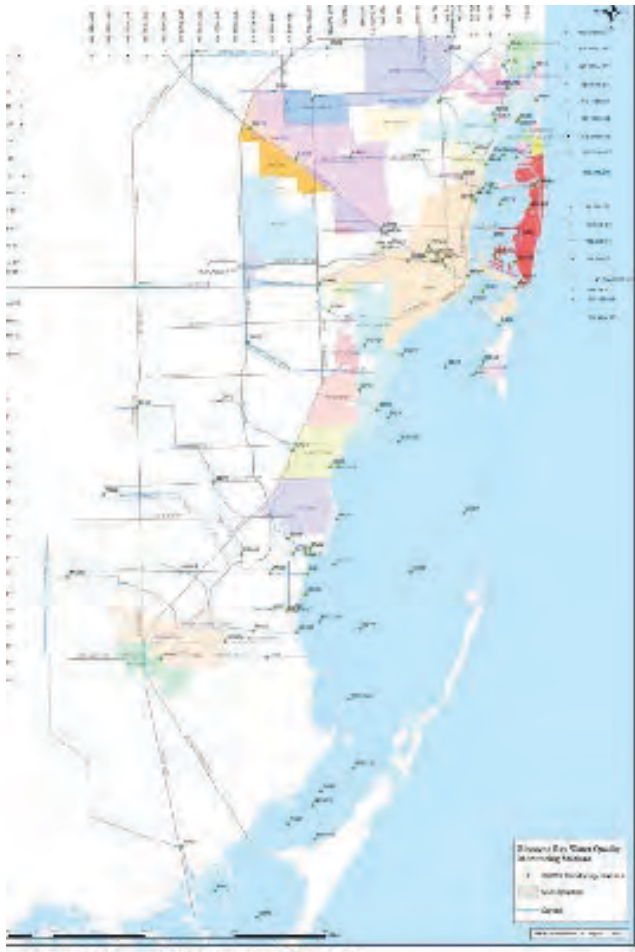
TOWN OF SURFSIDE STORMWATER IMPROVEMENTS

Surfside, FL | Ongoing

Client:
Town of Surfside
Hector Gomez, Town Manager
(305) 861-4863, hgomez@townofsurfsidefl.gov

Contract Amount: Varies per work order

KEITH completed the following projects under its continuing service contract with the Town of Surfside. Some of the projects that our team has collaborated with the Town are the following:



MPDES MS-4 Monitoring & Reporting

KEITH has been entrusted with the provision of professional engineering services to ensure compliance with National Pollutant Discharge Elimination Systems (NPDES) and Stormwater Regulatory Monitoring, as well as Compliance Reporting on behalf of the Town of Surfside. This responsibility includes assisting the Town in fulfilling the necessary obligations for annual reporting of their current NPDES MS-4 Permit to the Florida Department of Environmental Protection (FDEP). Specifically, KEITH is responsible for overseeing the processing and submission of the required annual reports of the Town's NPDES MS-4 Permit (FLS000003 - 004).

Abbott Ave Drainage Improvements - Evaluation & Report Phase

KEITH was retained by the Town of Surfside to provide comprehensive civil engineering services of the existing stormwater drainage condition of Abbott Avenue, spanning from 90th Street to 96th Street. The scope of services encompasses the evaluation and assessment of the current stormwater drainage conditions, as well as the preparation of a detailed report offering viable options to mitigate issues associated with ponding and standing water. KEITH diligently reviewed and evaluated all pertinent information and materials, including plans, narratives, calculations, and the ICPR model. KEITH assessed the Town's existing land use development code, stormwater ordinance, and MS-4 reporting, providing expert recommendations and ordinance revisions to ensure compliance and exceedance of federal, state, and local requirements. The provision of future projections and infrastructure assessment established the essential framework for developing accurate stormwater models. KEITH proposed a series of drainage improvements, which included the design of two underground stormwater pump stations located at the intersections of Abbott Avenue with 91st Street and 92nd Street. Each pump station was designed to discharge into three stormwater injection wells, with an additional overflow connection leading to the intercoastal waterway. To regulate the flow, a control structure with a flap gate was incorporated to ensure that the stormwater would not reach the intercoastal until the desired design pressures were achieved.

UTILITY ATLAS - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT

Fort Lauderdale, FL | Ongoing

Client:
Broward County Aviation Department
Carlos Hernandez, Project Manager
(954) 359-6106, cahernandez@broward.org

Contract Amount: \$1,069,000

Under its continuing services agreement with the County for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utilities and Pavement Projects, KEITH is deeply entrenched in a multifaceted GIS (Geographic Information System) initiative. The crux of this endeavor is the development of a comprehensive KEITH Access project, which involves the meticulous creation and upkeep of a utility atlas for both airports sprawling across a vast 550-acre expanse.

This atlas constituting an integral component of the BCAD CIP (Broward County Aviation Department Capital Improvement Program), represents a concerted effort spanning numerous years. It amalgamates historical as-built and record drawing data with contemporary surface and subsurface utility infrastructure design and survey data, meticulously curated and verified by KEITH's expert team. Leveraging its prowess in civil engineering, surveying, and subsurface utility engineering (SUE), KEITH has been pivotal in bringing this project to fruition.

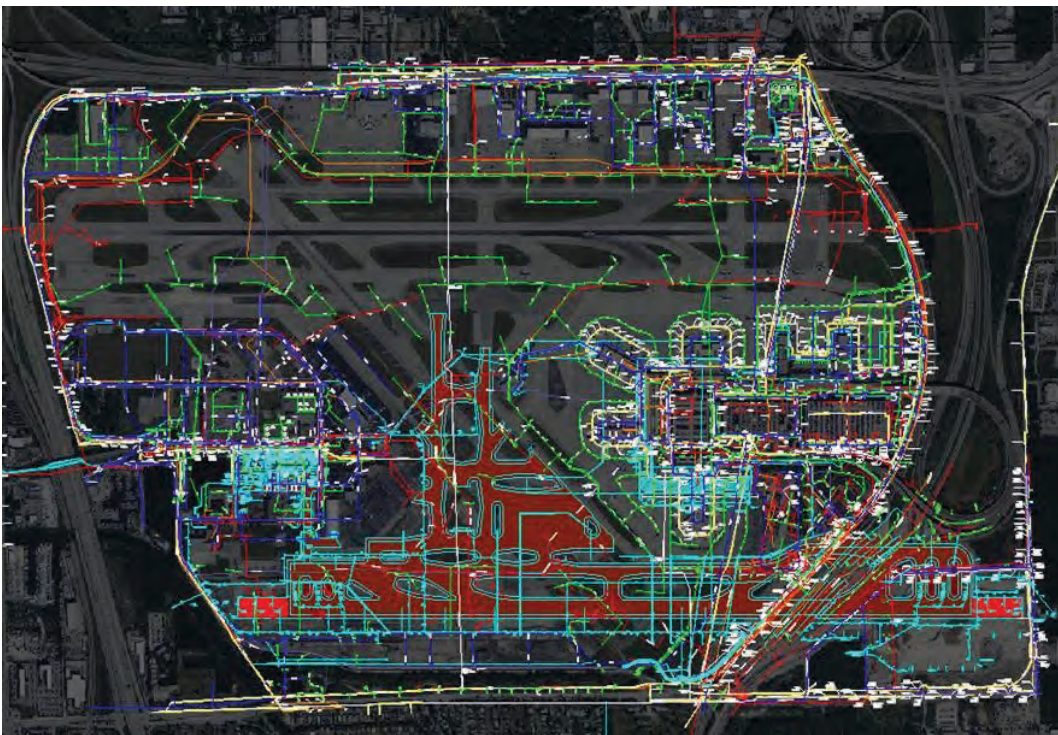
A cornerstone of KEITH's contribution lies in its proactive approach towards integrating newly minted record drawings and as-built information stemming from ongoing construction endeavors across the airport premises. This continuous influx of data

enriches the repository, empowering consultants and contractors with a wealth of information indispensable for their design and construction services.

Central to KEITH's strategy is the successful implementation of a utility work program, mandating the submission of a Utility Registration Application for all utility projects. This streamlined process not only enhances communication and coordination among projects but also expedites planning stages, resulting in substantial time savings.

The project's Phase 1 concentrated on pivotal areas, earmarked for future development, including the new 10R/28L runway and Terminal 4 Gate Expansion and Apron projects. KEITH's undertakings encompassed a myriad of tasks, ranging from the precise location and as-built documentation of over 300 drainage structures to the establishment of 70 horizontal and vertical control points spanning 30 square miles. Furthermore, the provision of airport network control maps and topographic surveys covering 550+ acres facilitated design activities crucial for Runway 10R/28L. Aerial mapping covering 34,900+ acres added another layer of spatial insight vital for informed decision-making.

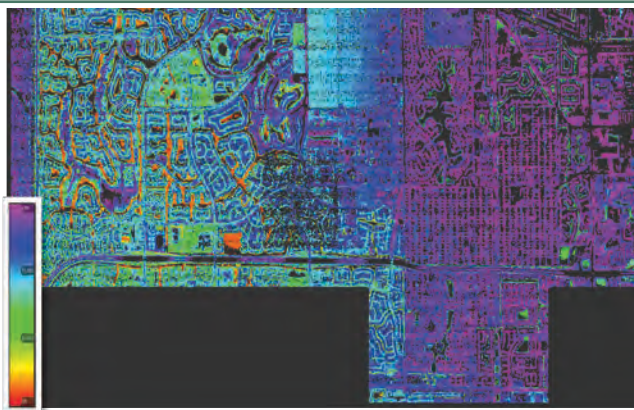
Phase 2 witnessed an extensive overhaul of the atlas to encompass recent projects such as the North Runway Improvements, Terminals 1, 2, and 3 renovations, North and Westside Developments, and Perimeter Road Upgrades. Throughout these endeavors, KEITH meticulously adhered to stringent standards outlined in airport circulars, including specifications for aeronautical surveys and Geographic Information System (GIS) protocols, ensuring the highest degree of accuracy and compliance.



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PARKLAND CITYWIDE STORMWATER MASTER PLAN

Parkland, FL | Completed in 2022



Client:

City of Parkland
Alexander Barr, PE, City Engineer
(954) 757-4184, ABarr@CityOfParkland.org

Initial Contract amount: \$325,000

Project Description:

KEITH was successfully retained to provide a comprehensive range of engineering services for the development of a Citywide Stormwater Master Plan (SWMP) for the City. The completion of this project marks a significant milestone in the city's efforts to manage stormwater effectively and ensure the long-term sustainability of its infrastructure.

Throughout the project, KEITH diligently collaborated with stakeholders to gather valuable input and insights. By actively involving key individuals and organizations, KEITH ensured that the SWMP reflected the diverse needs and perspectives of the community. This inclusive approach fostered a sense of ownership among stakeholders and promoted a more holistic and effective stormwater management strategy.

One of the primary tasks undertaken by KEITH was the evaluation of the existing stormwater system. Through meticulous assessment and analysis, KEITH identified areas that required improvements and updates to meet current and future demands. The team also undertook the crucial task of updating the Geographic Information System (GIS) database, ensuring accurate and reliable data for informed decision-making.

A key aspect of the project involved evaluating future developments and their potential impact on the stormwater system. KEITH's experts meticulously examined various scenarios and assessed the infrastructure requirements to accommodate these developments. By considering both existing conditions and projected growth, the SWMP successfully anticipated and addressed the city's evolving needs.

KEITH took on the responsibility of developing two essential models: the "Existing Conditions Model" and the "Proposed Conditions Model." Utilizing the United States Environmental Protection Agency

Storm Water Management Model, the team created these models for three specific areas—the Ranches, the Hendrix Farms, and Pine Tree, covering an approximate 3,235 acres. These models provided a comprehensive understanding of the stormwater dynamics in the region and enabled the team to make informed decisions about the proposed improvements.

The final plan produced by KEITH represents the culmination of the project's efforts. This comprehensive document offers recommendations, policies, and strategies to guide the city's stormwater management initiatives. It also presents a prioritized and phased program that addresses both current and future infrastructure needs, ensuring a systematic and sustainable approach to stormwater management.


To provide a complete overview, the SWMP includes phased projected costs and alternative funding mechanisms. This financial aspect allows the city to plan and allocate resources efficiently, ensuring the successful implementation of the proposed improvements. Additionally, KEITH conducted thorough permit reviews for the City water management districts, Broward County, South Florida Water Management District, North Springs Improvement District, and Pine Tree Water Control District. This rigorous compliance assessment ensures that the SWMP aligns with regulatory requirements and meets the necessary environmental standards.

The city's unique characteristics presented specific challenges during the master planning process. With its large estate lots, newer single-family home developments, the on-going development of the annexed "Wedge," possible future annexations, and limited commercial development, KEITH had to consider these factors while formulating the SWMP. By carefully considering past studies, models, data, permit conditions, and ongoing projects, KEITH built upon a solid foundation of information. This comprehensive approach ensured the integration of various elements, creating a robust and adaptable master plan.

Importantly, the SWMP established a policy framework that emphasizes resiliency and sustainability. By conducting vulnerability analyses, KEITH identified potential areas of risk and proposed measures to mitigate these vulnerabilities. The prioritized improvement program outlined in the plan ensures the city's long-term integrity and sets a strong foundation for future generations.

Overall, KEITH's successful completion of the Citywide Stormwater Master Plan represents a significant achievement for the city and its stakeholders. The comprehensive nature of the plan, the integration of diverse perspectives, and the emphasis on sustainability make it a valuable blueprint for managing stormwater effectively and ensuring the city's continued growth and prosperity.

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A person in a white shirt is seen from the side, looking at a computer monitor. The monitor displays a complex technical drawing or map with various lines, grids, and text. The background is a blurred office setting with a window and some framed pictures on the wall.

4.2.4 QUALIFICATIONS OF THE PROJECT TEAM

ORGANIZATION CHART

Leadership



Principal-in-Charge

Alex Lazowick, PE, PMP, ENV SP

QA Officer & Community Specialist

Thomas Green, PE

GIS/Survey Technical Advisor

Sam Hall, PSM

CEI Technical Advisor

Jonathan Weymouth, PE

Civil Technical Advisor

Stephen D. Williams, Sr., PE

Program Management

Program Manager

Dwayne Vaughn, PE

Deputy Program Manager

¹ Jeff Atherton, M.Sc,
A.Sc.T., PMP

Services

GIS/Survey

¹ Natalie Ciletti, GISP
¹ Aren Warner

Asset Management

Omar Rodriguez, PE, CAPM, CFM
Lee Cole
¹ Jim O'Dowd, PE
¹ Greg Thacker
¹ Devan Thomas, P. Eng., M. ASCE

Condition Assessment

Stephen High
¹ Chris Macey, PE
¹ Anthony Dowell, GISP, IAM Cert.
² Kyle Herbert

CEI

³ Omar Herrera, PE
³ Jake Williamson
³ Karuna Warren
³ Megi Rusi. PhD, PG
¹ Thomas Johnson, GIP, ITCP
⁴ Giovanni Rose

Civil Engineering

Niles Warrick, PE, CFM, ENV SP
Thomas Donahue, PE
¹ Magdala Cayemitte, PE, CDT
¹ Mitchell W. Savitski, EI

KEY: ¹ AECOM ² PCI ³ The Engineering Co ⁴ CMTS



Mr. Lazowick was introduced to civil engineering and construction by his grandfather, Mr. Bill Keith, Founder of the firm. He has enthusiastically taken on the challenge of becoming the third generation of family leadership at KEITH, working to provide quality land development and design solutions to our complex South Florida community. Mr. Lazowick has over a decade of experience in civil engineering design including water, sewer, and drainage systems, roadway design, permitting, and construction administration services for a variety of land development projects across the state and beyond. Alex understands the importance of working together as a team to quickly identify and establish project goals, while achieving successful results in the most expedient and cost-effective manner. His qualifications include knowledge with AutoCAD Civil 3D, Navisworks, Revit, BIM, and computer networking.

RELEVANT PROJECT EXPERIENCE

City of Parkland GIS Services, Parkland, FL: KEITH was responsible for creating updated GIS maps of the existing City of Parkland GIS database combined with the recently annexed parcels. KEITH created new Future Land Use, Zoning and Street Maps. We have also updated the GIS database for changes in Future Land Use and Zoning. We created display exhibits including the City Limits on top of the most recent Broward County aerials. All deliverables were updates to the City's GIS Database, maps saved in PDF format and hard copy exhibits. KEITH is intimately familiar with the limits of the City of Parkland as well as the "Wedge" and other annexation processes. We have mapped the existing parcels as well as most of the parcels annexed. As a longtime resident of the City of Parkland, Ms. Dodie Keith-Lazowick recognizes the importance of proper future planning of the "Wedge" in her community. She personally prepared the original City Base Maps and was part of the team who created the original Comprehensive Plan for the City of Parkland in the 80's and would be proud to serve the City for the overall advancement of Parkland.

City of Parkland NPDES Stormwater Inventory-GIS, Parkland, FL: KEITH developed a stormwater atlas for the City of Parkland with a goal to gather drainage utilities not found in their as-builts. The KEITH survey team gathered information on the missing utilities and the atlas was updated to reflect all information. The KEITH Team created a dashboard that quickly tells stakeholders the number of catch basins, manholes, outfalls, missing structures, and the linear length of pipes shown. This information is available for inspections, reporting, and permitting needs.

Fort Lauderdale-Hollywood International Airport (FLL) Utility Atlas and Miscellaneous Services, Fort Lauderdale, FL: KEITH, under its continuing services agreement with the County for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utilities and Pavement Projects, is assisting the Client in developing a KEITH Access project including creating and maintaining a utility atlas for both airports over the extensive 550-acre site. The atlas is an ongoing BCAD CIP effort compiling many years of as-built and record drawing information while verifying and incorporating current surface and subsurface utility infrastructure design and survey data. KEITH provided civil engineering and survey/SUE services to the Client. The KEITH Team is assisting the Client in incorporating new record drawings and as-built information from ongoing construction projects throughout the airport, adding continuously to the available data for consultants and contractors to utilize in their design and construction needs. KEITH successfully implemented the utility work program, requiring all utility projects to submit a Utility Registration Application to track the project throughout its lifecycle. This program significantly increases communication and coordination between projects and saves tremendous amounts of time during planning stages. Phase 1 included the Airport Expansion project's future development areas of the new 10R/28L runway and Terminal 4 Gate Expansion and Apron project. To help meet design needs for those projects, efforts included location and as-built of 300+ drainage structures, establishing 70 horizontal and vertical control points encompassing 30 square miles, providing airport network control maps facilitating a base geodetic and vertical survey control system for the entire airport, topographic survey inclusive of 550+ acres for design activities of Runway 10R/28L, and aerial mapping of 34,900+ acres. Phase 2 included updating the atlas to facilitate and include recent projects such as the North Runway Improvements; Terminals 1, 2, and 3; North and Westside Developments; and Perimeter Road Upgrades. All work and deliverables were performed in accordance with airport circulars 150/5300-16A General Guidance and Specifications for Aeronautical Surveys specific to geodetic control, 150/5300-17B General Guidance and Specifications for Aeronautical Survey Airport Imagery Acquisition, 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS pertaining to field data collection, and Geographic Information System (GIS) standards.

YEARS OF EXPERIENCE
15 years

YEARS WITH KEITH
14 years

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

**PROFESSIONAL
REGISTRATIONS**
78625, Professional
Engineer, Florida

Envision
Sustainability
Professional

Project Management
Professional PMP
2554175

**PROFESSIONAL
AFFILIATIONS**
Florida Engineering
Society (FES) Member
American Society of
Civil Engineering (ASCE)
Member

BIM Smart Foundation
Member
Parkland Advisory Board
Board Member

Planning and Zoning
Advisory Board Board
Member



Mr. Thomas Green, PE, brings 21 years of experience as a civil engineer, senior project manager, and capital improvement program manager. Tom has performed for both public and private clients as an esteemed colleague and as a valued consultant and advisor. As Project Manager, Lead Engineer, and team leader, Tom has successfully managed multi-million dollar projects throughout South Florida and the Caribbean. In addition to his skills gleaned from years of navigating municipal board rooms, he has a highly diversified depth of experience with the on-the-ground details of complex development projects keeping them on scope, schedule, and under budget. Tom is proficient in state-of-the-art technologies such as AutoCAD, Land Desktop, ICPR, Microsoft Project, and ProLog construction management software.

YEARS OF EXPERIENCE
21 years

YEARS WITH KEITH
1 year

EDUCATION
B.S. Civil Engineering,
University of Florida
2003

PROFESSIONAL REGISTRATIONS
67558, Professional
Engineer, Florida

RELEVANT PROJECT EXPERIENCE

Las Olas Boulevard Corridor, Fort Lauderdale, City of Fort Lauderdale - Community Redevelopment Agency: Senior Project Manager. This City of Fort Lauderdale Community Redevelopment Agency project delivery method is construction manager at risk. Project consists of a new parking garage, new parks, roadway, landscaping, and utility improvements. Tom assisted in the solicitation, bidding, contracting, and procurement of professional design consultants and construction managers. He directed and assisted in the design and specification of the project and coordinated the design with internal and external project stakeholders.

DC Alexander Park, Fort Lauderdale, City of Fort Lauderdale - Community Redevelopment Agency: Senior Project Manager. This high-profile community project consists of roadway, hardscape, landscape, and utility improvements, and goal is to activate the park. Construction contract awarded July 2022. Tom assisted in the solicitation, bidding, contracting, and procurement of professional design consultants and construction managers. He directed and assisted in the design and specification of the project and coordinated the design with internal and external project stakeholders. \$9,000,000.00 construction budget and \$600,000.00 design contract. Project delivery method is design-bid-build.

Aquatic Center Renovation, Fort Lauderdale, City of Fort Lauderdale - Community Redevelopment Agency: Senior Project Manager. This project consists of new competition pool and dive well, pool infrastructure, grandstand and bleachers, 27-meter dive tower, surface parking, stadium lighting improvements, and new 2-story Office and Locker Room Building. Project is under active construction and Phase I was completed July 2022. Phase II completion anticipated December 2022 Tom assisted in the solicitation, bidding, contracting, and procurement of professional design consultants and construction managers. He directed and assisted in the design and specification of the project and coordinated the design with internal and external project stakeholders. Estimated \$50,000,000.00 design and construction budget. Project delivery method is design-build.

Citywide Parks Bond Management, Fort Lauderdale, City of Fort Lauderdale - Community Redevelopment Agency: Senior Project Manager. Tom was responsible for managing the City's \$200,000,000.00 park bond program and achieving the City's goal of improving 95 parks in the City's parks inventory.

Capital and Maintenance Projects Management, Miami, Florida Gas Transmission: Senior Engineer. Tom was responsible for overseeing the preparation of MOT plans, dewatering calculations and plans, utility and environmental permitting through state agencies, county agencies, and local municipalities, and onsite construction inspections (FDOT CEI) to ensure compliance with pavement restoration methods for various capital and maintenance projects.

Port of Miami Bond Engineering Report, Miami, Miami-Dade County - Port Miami: Senior Engineer. Responsible for the preparation of inspection reports for bulkhead and sheetpile, asphalt, high mast lighting, and building conditions. Responsibilities also included the analysis of the Port Of Miami Capital Improvement Plan and cost estimates resulting from inspections. Tom also facilitated the preparation of recommended repairs to port facilities.



Mr. Dwayne Vaughn is a results-oriented professional offering 39 years of broad technical experience in the areas of aviation, rail transit, and roadway transportation programs with the last 21 years focused on program management, design management and construction management. He has extensive experience in management of governmental contracts acting in an owner's rep, construction manager and/or program manager capacity. During his career, Mr. Vaughn also provided preliminary engineering services on several large rail transit projects both nationally and internationally. He also assisted in the management of Intermodal program developments both in Broward and Dade counties in Florida. As a Registered Professional in the states of Florida and Hawaii, and with a Bachelor of Engineering degree in Civil Engineering, Mr. Vaughn is driven by new challenges and a desire to be successful through a hands-on, team-building management approach. He has extensive management experience on large governmental programs and understands the importance of meeting the needs of the owner from concept through implementation.

YEARS OF EXPERIENCE
39 years

YEARS WITH KEITH
15 years

EDUCATION
B.S. Civil Engineering,
Auburn University 1985

PROFESSIONAL REGISTRATIONS
47291, Professional
Engineer, Florida

RELEVANT PROJECT EXPERIENCE

Lynxs Bell Hangar, Fort Lauderdale, FL: The project includes the development of land relative to the new hangar project on the NW section of Ft. Lauderdale Hollywood International Airport including the construction of a new aircraft maintenance hangar, associated apron, vehicle parking lot, utilities, landscaping and 5 year re-certification for storm water management system. The new 30,850 square foot hangar is designed for the support, service and maintenance operations of Bell Helicopters, a global company with technical expertise in helicopters and aircraft. KEITH has provided Civil Engineering and Owner's Rep services for the development and construction of the Hangar project including coordination with Broward County Aviation Department, Broward County Engineering, Water & Wastewater, Environmental, Broward Fire Department and Building Code and Permitting Services. Other agencies involved included FDEP and South Florida Water Management District. The 5 year re-certification for the storm water management system included the lining of existing exfiltration trench, additional dry detention areas, and establishment of a clean and functioning system. Development of the Hangar Facility included the design of the proposed airfield apron concrete, which factored in the anticipated use of aircrafts and followed FAA Advisory Circulars to utilize the FAARFIELD software in developing the proposed section.

Fort Lauderdale-Hollywood International Airport (FLL) Utility Atlas and Miscellaneous Services, Fort Lauderdale, FL: KEITH, under its continuing services agreement with the County for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utilities and Pavement Projects, is assisting the Client in developing a KEITH Access project including creating and maintaining a utility atlas for both airports over the extensive 550-acre site. The atlas is an ongoing BCAD CIP effort compiling many years of as-built and record drawing information while verifying and incorporating current surface and subsurface utility infrastructure design and survey data. KEITH provided civil engineering and survey/SUE services to the Client. The KEITH Team is assisting the Client in incorporating new record drawings and as-built information from ongoing construction projects throughout the airport, adding continuously to the available data for consultants and contractors to utilize in their design and construction needs. KEITH successfully implemented the utility work program, requiring all utility projects to submit a Utility Registration Application to track the project throughout its lifecycle. This program significantly increases communication and coordination between projects and saves tremendous amounts of time during planning stages. Phase 1 included the Airport Expansion project's future development areas of the new 10R/28L runway and Terminal 4 Gate Expansion and Apron project. To help meet design needs for those projects, efforts included location and as-built of 300+ drainage structures, establishing 70 horizontal and vertical control points encompassing 30 square miles, providing airport network control maps facilitating a base geodetic and vertical survey control system for the entire airport, topographic survey inclusive of 550+ acres for design activities of Runway 10R/28L, and aerial mapping of 34,900+ acres. Phase 2 included updating the atlas to facilitate and include recent projects such as the North Runway Improvements; Terminals 1, 2, and 3; North and Westside Developments; and Perimeter Road Upgrades. All work and deliverables were performed in accordance with airport circulars 150/5300-16A General Guidance and Specifications for Aeronautical Surveys specific to geodetic control, 150/5300-17B General Guidance and Specifications for Aeronautical Survey Airport Imagery Acquisition, 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS pertaining to field data collection, and Geographic Information System (GIS) standards.

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Sam Hall brings 25 years of professional surveying, mapping, and project management experience to the KEITH Team. As Vice President, he has led multi-million-dollar municipal and private development geospatial projects throughout Florida. Throughout his career, Sam has demonstrated exceptional professionalism and project understanding, with a thorough understanding of Florida Statutes and Administrative Codes. He has led both large and small teams through the proper execution of proposals, contracts, and task work orders (TWOs). Sam has extensive technical knowledge and ensures all projects are delivered in the most efficient and detailed manner.

RELEVANT PROJECT EXPERIENCE

City of FTL Water Consent Order Mapping, Fort Lauderdale, FL: KEITH provided survey and subsurface utility engineering services. This project included the city-wide mapping of all City of Fort Lauderdale potable water distribution components. All surface system components were located and lines larger than 8-inches in diameter were designated (ASCE/CI 38-02 utility quality level B / 2D location). To complete this significant data collection effort, KEITH scanned more than 200 roadway miles with mobile LiDAR, mapped more than 11,000 active and inactive valves along with over 2,000 hydrants and other surface infrastructure. KEITH then used ground penetrating radar and electronic cable and pipe locating methods to tone and locate more than 140 line miles of buried water lines. The resulting data was used to update the city's water atlas maps with "survey accurate" utility facility locations and update the city's water distribution system GIS for future management of the potable water system.

Districtwide Misc Location Survey Consultant, Districtwide, FL: KEITH is providing location survey services for FDOT D6 in an effort that is vital to planning, analysis and assessment to the transportation infrastructure and natural features throughout the District. Most of these services will utilize a combination of mobile surveying and mapping technologies with GNSS and conventional survey technologies for ground control, quality assurance, and supplementary topographic map data when necessary. The goal of utilizing mobile survey technology is to increase safety and cost benefit to projects through efficient collection and enhanced topographic information. It is further desired that mobile survey data will offer other value-added data to GIS, maintenance, and preliminary engineering.

Dam Inventory Mapping Project, Various Florida Counties, FL: Florida Department of Environmental Protection. Florida Department of Environmental Protection, Division of Water Resource Management received GIS support services associated with impoundments and dams located throughout the Northwest Florida Water Management District. This process involved the examination of over 800 impoundments across the 16-county region and the identification of potential dams not represented or included in the existing Florida Geographic Data Library (FGDL 2010). Sam collected inventory data on these proposed dams by carefully reviewing various topographic data, digital databases, LiDAR, and other similar types of imagery. The product from this effort was point and area ESRI shapefiles, geodatabases representing the previously unknown dam locations, and attributes derived or estimated from available remotely sensed data.

FEMA Flood Map LiDAR Survey, Wellington, FL: Sam provided the certified elevation data needed to enhance the accuracy of FEMA flood maps within the Village limits. In total, the study area for the project included approximately 48 square miles and encompassed the developed limits of the Village of Wellington. Sam utilized aerial Light Detection and Ranging (LiDAR) to acquire elevation data on a 2-foot grid throughout the project area. Control for the project was established using static GPS methods, which included precise elevation determination in accordance with National Geodetic Survey guidelines. Two hundred ground classification elevation positions were also collected using conventional survey methods, and more than 300 geo-referenced ground cover photos were obtained. The final deliverables included a certified FEMA classified LiDAR dataset for the study area, which includes the typical FEMA ground cover classifications (canopy, grass/shrubs, bare earth, water bodies, pavement, etc.). Index contours at .5-foot and digital elevation models (DEM) were also developed from the LiDAR dataset and delivered in both AutoCAD and ArcGIS formats. FEMA-compliant GIS metadata was also developed and submitted to the Village.

YEARS OF EXPERIENCE
25 years

YEARS WITH KEITH
2 years

EDUCATION
M.S. GPS Satellite
Surveying and Conformal
Mapping, University of
Maine 2007
B.S. Geography and
Anthropology, University
of Southern Maine 2005

**PROFESSIONAL
REGISTRATIONS**
LS6644, Professional
Surveyor and Mapper,
Florida
CSX Safety
Certification
Florida East Coast
Railway "RWP" Safety
Certification
Temporary Traffic
Control Certification,
Intermediate
Trimble Certified Trainer

**PROFESSIONAL
AFFILIATIONS**
Florida Surveying and
Mapping Society (FSMS)
Member
American Association
of Geodetic Surveyors
(AAGS) Member
American Council of
Engineering Consultants,
Florida (ACEC-FL)
Member
Florida Utilities
Coordinating Committee
Member
American Society of
Civil Engineering (ASCE)
Member
American Public Works
Association (APWA)
Member



As KEITH's Director of Construction Services, Mr. Weymouth oversees construction administration and project representation and observation services for public/municipal transportation, roadway, and pre-stressed and post-tension segmental bridge projects, including elements such as subgrade, lime rock base, asphalt, MSE retaining walls, pile driving, lighting and signalization improvements, concrete curb and sidewalk, paving, grading, drainage, water distribution and sewerage collection system construction, signage, and pavement marking installation. The design, permitting, and construction experience Mr. Weymouth brings to the KEITH Team is inclusive of earthwork and embankments, water management district stormwater management, concrete, and asphalt pavements, along with communication, potable water distribution, and sanitary sewer collection systems. His broad knowledge of design, field observations, and construction oversight for conformance to plans and specifications is a key factor in the successful construction of our projects. His in-depth transportation construction experience allows him to proactively direct highly complex and specialized construction, engineering, administration, and inspection programs.

RELEVANT PROJECT EXPERIENCE

SBBC - Program Management, Davie, FL: As subconsultant to Heery International, KEITH provided management from project charter through to commissioning and close out of assigned capital projects. The program was comprised of a variety of renovation and new construction projects with the preponderance of scope focused on the exterior envelope, HVAC, and life safety systems. KEITH was responsible for the monitoring, inspecting, and reporting of all phases of the work, coordination between the school district, the schools, regulatory agencies, and other contractors, as well as the maintenance of the quality of work and scheduling. A detailed logbook was also maintained including all correspondence, change orders, requests for information, field instructions, bulletins, shop drawings, submittal and product data, and requests for payment.

Fort Lauderdale Hollywood International Airport (FLL) Terminal 4 Expansion & Gate Replacement CPM, Fort Lauderdale, FL: Jon served as Construction Manager on the construction of the new concrete apron and Taxiway T to facilitate 14 new gates at Fort Lauderdale/Hollywood International Airport's Terminal 4. Jon coordinated with the owner and contractor of all facets of the apron expansion and performed inspection services in accordance with FAA specifications for embankments, drainage installation, asphalt/concrete paving, pavement marking, and airfield lighting system. Construction inspection also included new water main, sanitary sewer, and force main systems. The FLL Terminal 4 Gate Replacement project included reconstruction of existing Concourse H, which added four new gates, for a total of 14 new swing gates. A post-security connection from Terminal 3 to the new Terminal 4 Concourse G and required improvements to Terminal 3 were added to accommodate this connection. Construction of seven vertical circulation cores connected to a sterile corridor to provide access to the existing Federal Inspection Services. Improvements included modifications and expansion of the Security Screening Check Point, construction of new BCAD offices on the third and fourth levels at the center of the new concourse (including Airport Operations Communication Center, and FLL Emergency Operations Center, construction of a chiller plant, commissioning and electrical substations, and demolition of existing Concourse H.

DC Alexander Park, Fort Lauderdale, FL: Construction Management and CEI Project Manager. KEITH is assisting the Client in developing a KEITH Life/KEITH Play/KEITH Campus project that includes the visioning and redevelopment of an oceanfront park nestled in a unique 1+ acre spot on Fort Lauderdale's beachfront near the Fort Lauderdale Aquatic Center and International Swimming Hall of Fame. KEITH is providing services to the Client including survey/SUE, planning, civil and traffic engineering, landscape architecture, and construction observation. The KEITH Team assisted the Client with public engagement, turtle-compliant lighting, carefully planned stormwater infrastructure, shoreline habitat analysis, and practical and creative applications of stormwater mitigation practices resulting in a design that reflects and embraces the social and economic needs of the community.

Fort Lauderdale-Hollywood International Airport (FLL) North Perimeter Road Water Main Extension, Fort Lauderdale, FL: Jon served as Construction Project Manager on this project. His responsibilities included coordination of full-time contract administration, inspection, and testing. Fort Lauderdale/Hollywood International Airport (FLL) was running a new water main line along North Perimeter Road, under the I-595 overpass and through the fixed-base operator (FBO) parking area. This project was part of ongoing water main upgrades, based on the BCAD Water System Master Plan, and was the last remaining stretch of the perimeter water main upgrades at the airport. The project connected to the East Perimeter Road water main extension completed in 2015 and to the existing water main near the northwest corner of the airport. The water main installed spans just over two miles in length and consisted of a 12-inch water main and eight-inch potable water main interconnect lines. The MOT plan changed for each day of installation throughout the two-mile route. Some MOT features included lane closures near an intersection.

YEARS OF EXPERIENCE
34 years

YEARS WITH KEITH
13 years

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

PROFESSIONAL
REGISTRATIONS
Professional Engineer,
Florida, 52802
Qualified Florida
Construction Stormwater
Inspector

CTQP Quality Control
Manager W53043564

10-Hour OSHA Safety
Training

SFRTA Contractor Safety
Training

Temporary Traffic
Control Certification,
Intermediate

Workzone Traffic Control
- Advanced Level



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. Notably, Mr. Williams developed a SWMM EXTRAN computer model for the 55,000-acre Indian River Farms Water Control District.

RELEVANT PROJECT EXPERIENCE

Zone 2 Drainage Study, Plantation, FL: The KEITH Team was successfully retained to provide a full range of engineering services for the City of Plantation Drainage Zone 2 to provide an evaluation of the existing stormwater system and develop a Capital Improvement Program (CIP) specifically for this Drainage Zone. The CIP will consist of a set of short and long-term projects to address current flooding issues and help the community build resiliency for the future impacts of climate change. The Stormwater Master Plan will involve input from the public, City officials, City staff, and other stakeholders. KEITH will leverage its expertise in hydrology and hydraulics modeling to evaluate the overall existing stormwater system, identify potential areas at risk of flooding and evaluate future required stormwater system upgrades in order to improve the flood resiliency for the City and its residents. The KEITH Team will carry out a thorough review of existing available information obtained from online sources and provided by the Client to build an accurate and reliable hydrology and hydraulic model for this stormwater master plan study. KEITH will take on the responsibility of developing two models: the "Existing Conditions Model" and the "Proposed Conditions Model." Utilizing the Interconnected Ponds Routing (ICPR) modeling software, the team will prepare these models for the 700 acres study area limited by the Turnpike on the west, W Broward Blvd. on the north, State Road 7 on the east and Peters Road on the south. These models provide a comprehensive understanding of the stormwater dynamics in the region and enables the team to make informed decisions about the proposed improvements. This crucial task will be optimized by exploiting the capabilities of Geographic Information Systems (GIS) to process large data and more efficiently build the model.

John Knox Village Stormwater Management Plan, Pompano Beach, FL: KEITH is assisting the Client in the development of a KEITH Life/KEITH Campus project consisting of a senior residential facility, formal and semi-formal gardens, and surface parking. KEITH provides full services to the Client including civil engineering, survey/SUE, planning, landscape architecture, and CEI. The KEITH Team is assisting the Client with the preparation of a topographic and boundary survey, tree survey, existing utility map, and conceptual development of an overall Stormwater Master Plan for the property. Additional KEITH services include the estimated engineering design for Phase I projects, engineering for coordination and deliverable review, stormwater modeling, permitting, water distribution, and wastewater collection plan delivering a safe, functional space for the community to thrive.

Parkland Citywide Stormwater Master Plan, Parkland, FL: KEITH was retained to provide a full range of engineering services in order to develop a comprehensive Stormwater Master Plan (SWMP) for the City. The SWMP involves input from the public, City Officials, and staff. KEITH evaluated the existing stormwater system, updating the GIS database and evaluating future developments and required improvements. KEITH was responsible for developing an "Existing Conditions Model" and "Proposed Conditions Model" using the public domain United States Environmental Protection Agency, Stormwater Management Model for the Ranches area (652-acres), the Hendrix Farms Area (596-acres), and Pine Tree area (1,987-acres) covering a total of approximately 3,235 acres. The Final SWMP recommended policies, strategies, and a prioritized and phased stormwater improvement program for current and future stormwater infrastructure needs. The SWMP included projected costs alternative funding mechanisms for each phase; review of existing permits for the water management districts that serve the City, as well as Broward County, South Florida Water Management District, North Springs Improvement District, and Pinetree Water Control District. The City of Parkland presented a unique and challenging master planning process, with its large estate lots, newer single-family home developments, the on-going development of the annexed "Wedge", possible future annexation of the Hendrix property, and the limited commercial development, much of which occurred on prior agricultural land. KEITH built upon the foundation of information by carefully taking into account past studies and models, data, permit conditions, and recently completed and ongoing projects and initiatives. The comprehensive master plan established a policy framework, integrated resiliency, conducted vulnerability analysis, and provided a prioritized improvement program that ensures the integrity of the City's future is protected.

YEARS OF EXPERIENCE
47 years

YEARS WITH KEITH
10 years

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

PROFESSIONAL REGISTRATIONS
32090, Professional
Engineer, Florida

PROFESSIONAL AFFILIATIONS
American Society of
Civil Engineers (ASCE)
Member
Florida Engineering
Society (FES) Member
National Society of
Professional Engineers
(NSPE) Member



Mr. Omar Rodriguez is an emerging engineering professional specializing in Hydrology and Hydraulic Modeling and Water Resources engineering. Heavily involved in Floodplain Management, Urban Drainage, and Climate Adaptation. Gaining experience in water resources and civil engineering design projects including water, sewer, drainage systems, stormwater master plans, and flood mapping as well as County and State-Wide permitting. Mr. Rodriguez has demonstrated his various abilities and qualifications as an engineer including Flood Risk Management implementation using CAD, GIS, and Modeling software.

RELEVANT PROJECT EXPERIENCE

Fort Lauderdale-Hollywood International Airport (FLL) Utility Atlas and Miscellaneous Services, Fort Lauderdale, FL: KEITH, under its continuing services agreement with the County for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO) Utilities and Pavement Projects, is assisting the Client in developing a KEITH Access project including creating and maintaining a utility atlas for both airports over the extensive 550-acre site. The atlas is an ongoing BCAD CIP effort compiling many years of as-built and record drawing information while verifying and incorporating current surface and subsurface utility infrastructure design and survey data. KEITH provided civil engineering and survey/SUE services to the Client. The KEITH Team is assisting the Client in incorporating new record drawings and as-built information from ongoing construction projects throughout the airport, adding continuously to the available data for consultants and contractors to utilize in their design and construction needs. KEITH successfully implemented the utility work program, requiring all utility projects to submit a Utility Registration Application to track the project throughout its lifecycle. This program significantly increases communication and coordination between projects and saves tremendous amounts of time during planning stages. All work and deliverables were performed in accordance with airport circulars 150/5300-16A General Guidance and Specifications for Aeronautical Surveys specific to geodetic control, 150/5300-17B General Guidance and Specifications for Aeronautical Survey Airport Imagery Acquisition, 150/5300-18B, General Guidance and Specifications for Submission of Aeronautical Surveys to NGS pertaining to field data collection, and Geographic Information System (GIS) standards.

Parkland Citywide Stormwater Master Plan, Parkland, FL: As a part of the civil engineering team on this project, Omar performed 1D hydraulic modelling of the stormwater system in EPA SWMM. He assisted in preparing the Master Plan report which included cost analysis, and capital improvements projects recommendations. Omar also coordinated with the City of Parkland for modeling summarization and an external consultant that performed quality control reviews. KEITH was retained to provide a full range of engineering services in order to develop a comprehensive Stormwater Master Plan (SWMP) for the City. The SWMP involves input from the public, City Officials, and staff. KEITH evaluated the existing stormwater system, updating the GIS database and evaluating future developments and required improvements. KEITH was responsible for developing an "Existing Conditions Model" and "Proposed Conditions Model" using the public domain United States Environmental Protection Agency, Stormwater Management Model for the Ranches area (652-acres), the Hendrix Farms Area (596-acres), and Pine Tree area (1,987-acres) covering a total of approximately 3,235 acres. The Final SWMP recommended policies, strategies, and a prioritized and phased stormwater improvement program for current and future stormwater infrastructure needs. The SWMP included projected costs alternative funding mechanisms for each phase; review of existing permits for the water management districts that serve the City, as well as Broward County, South Florida Water Management District, North Springs Improvement District, and Pinetree Water Control District. KEITH built upon the foundation of information by carefully taking into account past studies and models, data, permit conditions, and recently completed and ongoing projects and initiatives. The comprehensive master plan established a policy framework, integrated resiliency, conducted vulnerability analysis, and provided a prioritized improvement program that ensures the integrity of the City's future is protected.

John Knox Village Stormwater Management Plan, Pompano Beach, FL: Omar was responsible for the culvert design for the Stormwater Management Plan using hydraulic modelling software EPA SWMM. KEITH is assisting the Client in the development of a KEITH Life/KEITH Campus project consisting of a senior residential facility, formal and semi-formal gardens, and surface parking. KEITH provides full services to the Client including civil engineering, survey/SUE, planning, landscape architecture, and CEI. The KEITH Team is assisting the Client with the preparation of a topographic and boundary survey, tree survey, existing utility map, and conceptual development of an overall Stormwater Master Plan for the property. Additional KEITH services include the estimated engineering design for Phase I projects, engineering for coordination and deliverable review, stormwater modeling, permitting, water distribution, and wastewater collection plan delivering a safe, functional space for the community to thrive.

YEARS OF EXPERIENCE
6 years

YEARS WITH KEITH
5 years

EDUCATION
B.S. Civil Engineering,
Escuela Superior
Politecnica Del Litoral
2018

M.S. in Hydroinformatics
and Water Management,
Université Côte d'Azur,
Brandenburg University
of Technology Cottbus-
Senftenberg, 2023

Warsaw University of
Technology, Technical,
2023

University of Catalonia,
Newcastle University,
2023

**PROFESSIONAL
REGISTRATIONS**
94885, Professional
Engineer, Florida

Certified Associate
in Project Management
(CAPM) Program
Management 2788463

Certified Floodplain
Manager



Lee Cole has extensive experience working closely with industry leaders and the executive team to refine strategic initiatives and validate strategies. She is well versed in timely submissions of deliverables such as the execution of client projects, including data collection, analysis, and creation of written documentation and presentation materials.

RELEVANT PROJECT EXPERIENCE

John Knox Village Stormwater Management Plan, Pompano Beach, FL: KEITH is assisting the Client in the development of a KEITH Life/KEITH Campus project consisting of a senior residential facility, formal and semi-formal gardens, and surface parking. KEITH provides full services to the Client including civil engineering, survey/SUE, planning, landscape architecture, and CEI. The KEITH Team is assisting the Client with the preparation of a topographic and boundary survey, tree survey, existing utility map, and conceptual development of an overall Stormwater Master Plan for the property. Additional KEITH services include the estimated engineering design for Phase I projects, engineering for coordination and deliverable review, stormwater modeling, permitting, water distribution, and wastewater collection plan delivering a safe, functional space for the community to thrive.

Parkland Citywide Stormwater Master Plan, Parkland, FL: KEITH was retained to provide a full range of engineering services in order to develop a comprehensive Stormwater Master Plan (SWMP) for the City. The SWMP involves input from the public, City Officials, and staff. KEITH evaluated the existing stormwater system, updating the GIS database and evaluating future developments and required improvements. KEITH was responsible for developing an "Existing Conditions Model" and "Proposed Conditions Model" using the public domain United States Environmental Protection Agency, Stormwater Management Model for the Ranches area (652-acres), the Hendrix Farms Area (596-acres), and Pine Tree area (1,987-acres) covering a total of approximately 3,235 acres. The Final SWMP recommended policies, strategies, and a prioritized and phased stormwater improvement program for current and future stormwater infrastructure needs. The SWMP included projected costs alternative funding mechanisms for each phase; review of existing permits for the water management districts that serve the City, as well as Broward County, South Florida Water Management District, North Springs Improvement District, and Pinetree Water Control District. The City of Parkland presented a unique and challenging master planning process, with its large estate lots, newer single-family home developments, the on-going development of the annexed "Wedge", possible future annexation of the Hendrix property, and the limited commercial development, much of which occurred on prior agricultural land. KEITH built upon the foundation of information by carefully taking into account past studies and models, data, permit conditions, and recently completed and ongoing projects and initiatives. The comprehensive master plan established a policy framework, integrated resiliency, conducted vulnerability analysis, and provided a prioritized improvement program that ensures the integrity of the City's future is protected.

Palm Beach State College Stormwater Pipe Replacement and Pedestrian Walkway Improvements, Palm Beach Gardens, FL: KEITH is providing paving, grading and drainage plans, construction cost estimating and construction administration for replacing existing corrugated metal pipes across the campus that have deteriorated with new storm drainage pipes/outfalls based on site visits, analysis and previous inspection reports. Proposed plans include improvements to fix minor flooding along the pedestrian walkway at the Administration building. KEITH conducted multiple meetings and site visits with Palm Beach State College personnel to discuss their concerns and recommended different options to address these issues.

Zone 2 Drainage Study, Plantation, FL: The KEITH Team was successfully retained to provide a full range of engineering services for the City of Plantation Drainage Zone 2 to provide an evaluation of the existing stormwater system and develop a Capital Improvement Program (CIP) specifically for this Drainage Zone. The CIP will consist of a set of short and long-term projects to address current flooding issues and help the community build resiliency for the future impacts of climate change. The final product will be compiled in a Stormwater Master Plan. South Florida has historically been subject to hurricanes and coastal storm events given its location and more recently has become increasingly vulnerable to the adverse impacts of climate change. In KEITH, we understand the importance of flood resiliency to prevent loss of life and financial hardship and enable municipalities and service providers to maintain and/or restore service to residents and customers during and after a disaster. The Stormwater Master Plan will involve input from the public, City officials, City staff, and other stakeholders. KEITH will leverage its expertise in hydrology and hydraulics modeling to evaluate the overall existing stormwater system, identify potential areas at risk of flooding and evaluate future required stormwater system upgrades in order to improve the flood resiliency for the City and its residents.

YEARS OF EXPERIENCE
7 years

YEARS WITH KEITH
3 years

EDUCATION
B.A. Interdisciplinary
Studies, Nicholls State
University 2016



Mr. Steve High joined the firm in 2008 and has 52 years of experience in land development, project management, roadway and utility construction inspection. He has managed daily construction activities relating to earthwork operations, asphalt paving, utility relocations, concrete placement and drainage pipe installation. His experience includes preparing daily inspection reports on all activities, job progression, personnel and equipment, as well as interfacing with contractors on behalf of clients and accountability for job site coordination. His current capacity of Senior Construction Inspector requires monitoring and inspection of all phases of construction work, as well as coordination with clients, contractors, public agencies, utilities and affected property owners. His experience includes project management and field engineering inspection experience for both public and private projects.

RELEVANT PROJECT EXPERIENCE

Deerfield Beach Powerline Industrial Park FEMA Funded Drainage Improvements, Deerfield Beach, FL: In an effort to assist the City of Deerfield Beach to remedy significant flooding issues within a pre-developed industrial area exceeding 90-acres within the City, KEITH developed a detailed drainage evaluation/feasibility report, prepared complete construction documents and processed the required permits for several drainage improvements throughout the basin. The project also included assisting the City in securing appropriate funding/ grants from FEMA in order to complete several phases of the drainage improvement project. Complete surveying services (boundary/topographic surveying and LIDAR data collection), subsurface utility investigation, evaluation/analysis of existing drainage conditions, report preparation, recommendation of alternatives, construction cost estimates, meetings with City staff for decision making, complete design, permitting and preparation of construction documents. All services and deliverables were prepared in accordance with FEMA standard requirements in order for the City to secure grants for funding of the project.

City of Parkland Miscellaneous Services, Parkland, FL: KEITH provides general engineering, planning, and surveying services to the City of Parkland on an as-needed basis as part of our Continuing Contract for Professional Engineering, Planning, and Surveying Services. Projects provided under these contracts include: Pine Trails Park Wetland Mitigation Area Municipal Land Use Map Amendments Master Plan for "The Wedge" Parcel Parkland Dog Park Design Capital Improvements Elements (CIE) Annual Update Liberty Park (Build-A-Park Community Project) Annexation Parcel Map Exhibit Dollyland Parcel Sketch Misty Meadows Parcel Sketch North Springs Improvement District Parcel Holmberg Road Sidewalk Improvements Holmberg Road Roadway Improvements Citywide Traffic Study Update City of Parkland Maps Pine Trails Park Roadway and Utility Improvements Land Use Map Update and Text Amendment Lox Road Lighting Photometric Plan Parkland Roundabout Conceptual Design Tennis Center at Quigley Park.

City of Parkland GIS Services, Parkland, FL: KEITH was responsible for creating updated GIS maps of the existing City of Parkland GIS database combined with the recently annexed parcels. KEITH created new Future Land Use, Zoning and Street Maps. We have also updated the GIS database for changes in Future Land Use and Zoning. We created display exhibits including the City Limits on top of the most recent Broward County aerials. All deliverables were updates to the City's GIS Database, maps saved in PDF format and hard copy exhibits. KEITH is intimately familiar with the limits of the City of Parkland as well as the "Wedge" and other annexation processes. We have mapped the existing parcels as well as most of the parcels annexed. As a longtime resident of the City of Parkland, Ms. Dodie Keith-Lazowick recognizes the importance of proper future planning of the "Wedge" in her community. She personally prepared the original City Base Maps and was part of the team who created the original Comprehensive Plan for the City of Parkland in the 80's and would be proud to serve the City for the overall advancement of Parkland.

John Knox Village Stormwater Management Plan, Pompano Beach, FL: KEITH is assisting the Client in the development of a KEITH Life/KEITH Campus project consisting of a senior residential facility, formal and semi-formal gardens, and surface parking. KEITH provides full services to the Client including civil engineering, survey/SUE, planning, landscape architecture, and CEI. The KEITH Team is assisting the Client with the preparation of a topographic and boundary survey, tree survey, existing utility map, and conceptual development of an overall Stormwater Master Plan for the property. Additional KEITH services include the estimated engineering design for Phase I projects, engineering for coordination and deliverable review, stormwater modeling, permitting, water distribution, and wastewater collection plan delivering a safe, functional space for the community to thrive.

YEARS OF EXPERIENCE
52 years

YEARS WITH KEITH
16 years

EDUCATION
Courses Completed,
Broward College
Courses Completed,
Palm Beach College

PROFESSIONAL REGISTRATIONS
SFRTA Contractor
Safety Training
ACI Concrete Field Tech
L1
Asphalt Paving L1
Concrete Field Inspector
Spec
Earthwork Construction
L1
Final Est L1
Nuclear Radiation Safety
OSHA 10-Hour
Temporary Traffic
Control Certification,
Advanced



Niles Warrick is an emerging engineering professional gaining experience in civil design projects including water, sewer, and drainage systems. In addition, Niles has municipal, county, and state-wide permitting experience including performing permit reviews for multiple municipal and county entities. He has demonstrated his various abilities and qualifications as an engineer including utility design using AutoCAD Civil 3D and stormwater modeling using Storm Water Management Models.

RELEVANT PROJECT EXPERIENCE

City of Parkland GIS Services, Parkland, FL: KEITH was responsible for creating updated GIS maps of the existing City of Parkland GIS database combined with the recently annexed parcels. KEITH created new Future Land Use, Zoning and Street Maps. We have also updated the GIS database for changes in Future Land Use and Zoning. We created display exhibits including the City Limits on top of the most recent Broward County aerials. All deliverables were updates to the City's GIS Database, maps saved in PDF format and hard copy exhibits. KEITH is intimately familiar with the limits of the City of Parkland as well as the "Wedge" and other annexation processes. We have mapped the existing parcels as well as most of the parcels annexed. As a longtime resident of the City of Parkland, Ms. Dodie Keith-Lazowick recognizes the importance of proper future planning of the "Wedge" in her community. She personally prepared the original City Base Maps and was part of the team who created the original Comprehensive Plan for the City of Parkland in the 80's and would be proud to serve the City for the overall advancement of Parkland.

City of Parkland NPDES Stormwater Inventory-GIS, Parkland, FL: Project Manager. KEITH is developing a master stormwater GIS Web Application utility atlas for the City of Parkland with a goal to gather drainage utilities not found in their as-builts. The KEITH survey department is gathering information on the missing utilities and the atlas will be updated to reflect all information. The KEITH Team created a user-friendly GIS dashboard for all stakeholders and City staff including the number of catch basins, manholes, outfalls, and the linear length of pipes shown. This information will be available for inspections, reporting, design projects, and Federal/State/County permitting needs. Once our staff has completed the survey on missing structures, KEITH will implement those new utilities in the dashboard. KEITH developed a stormwater atlas for the City of Parkland with a goal to gather drainage utilities not found in their as-builts. The KEITH survey team gathered information on the missing utilities and the atlas was updated to reflect all information. The KEITH Team created a dashboard that quickly tells stakeholders the number of catch basins, manholes, outfalls, missing structures, and the linear length of pipes shown. This information is available for inspections, reporting, and permitting needs.

Parkland Citywide Stormwater Master Plan, Parkland, FL: Niles was responsible for obtaining, reviewing, and implemented GIS data and LiDAR information for the preliminary development of the stormwater master plan utilizing stormwater modeling software. KEITH was retained to provide a full range of engineering services in order to develop a comprehensive Stormwater Master Plan (SWMP) for the City. The SWMP involves input from the public, City Officials, and staff. KEITH evaluated the existing stormwater system, updating the GIS database and evaluating future developments and required improvements. KEITH was responsible for developing an "Existing Conditions Model" and "Proposed Conditions Model" using the public domain United States Environmental Protection Agency, Stormwater Management Model for the Ranches area (652-acres), the Hendrix Farms Area (596-acres), and Pine Tree area (1,987-acres) covering a total of approximately 3,235 acres. The Final SWMP recommended policies, strategies, and a prioritized and phased stormwater improvement program for current and future stormwater infrastructure needs. The SWMP included projected costs alternative funding mechanisms for each phase; review of existing permits for the water management districts that serve the City, as well as Broward County, South Florida Water Management District, North Springs Improvement District, and Pinetree Water Control District. The City of Parkland presented a unique and challenging master planning process, with its large estate lots, newer single-family home developments, the on-going development of the annexed "Wedge", possible future annexation of the Hendrix property, and the limited commercial development, much of which occurred on prior agricultural land. KEITH built upon the foundation of information by carefully taking into account past studies and models, data, permit conditions, and recently completed and ongoing projects and initiatives. The comprehensive master plan established a policy framework, integrated resiliency, conducted vulnerability analysis, and provided a prioritized improvement program that ensures the integrity of the City's future is protected.

YEARS OF EXPERIENCE
6 years

YEARS WITH KEITH
6 years

EDUCATION
B.S. Civil Engineering,
University of Central
Florida 2018

PROFESSIONAL REGISTRATIONS
Professional Engineer,
Florida, 94320

Certified Floodplain
Manager US-22-12358
Envision Sustainability
Professional



Mr. Thomas Donahue has 46 years of experience in civil engineering projects including 17 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

Abbott Avenue Drainage, Surfside, FL: Tom served as Engineer of Record (EOR) and Quality Control Manager. KEITH assisted the Client in developing a KEITH Access project that included Phase I and Phase II relating to drainage improvements on Abbott Avenue between 90th Street and 96th Street in Surfside, FL. KEITH provided services including civil engineering and utility coordination. The KEITH Team assisted the Client in evaluation and assessment of existing stormwater drainage conditions, preparation of reports including ICPR models and calculations for seven improvement options, construction cost estimates, presentation of conclusions for selection of the best and most cost-effective solution, evaluation of existing land use development codes, stormwater ordinances, and MS-4 reporting with recommendations and ordinance revisions for compliance and exceedance of federal, state, and local requirements. Sea level rise projections in accordance with Southeast Florida Regional Climate Change Compact were considered in assessments, as the KEITH Team has performed evaluations on sea level rise, surge, and resilient infrastructure integrated with the Town's vulnerability assessment. Phase II proceeded, once the Town selected its preferred option from Phase I, including development of construction documents and permit processing as early regulatory meetings were scheduled to minimize risk and changes as a result of permitting by taking advantage of pre-application meetings. KEITH assisted in securing a 2022 FDEP Flooding and Sea Level Resiliency Grant to cover most of the estimated construction costs. The Client is currently securing the remaining funding to move forward with full implementation/construction.

BCWWS Lead and Copper Inventory & SOP, Broward County, FL: This project entails assistance to the County to address the latest EPA executive order regarding lead in drinking water, which was last updated in August of 2022. KEITH will review existing records on both the public and private side and prepare an inventory of the sources where lead may be present in the existing drinking water system. The inventory is to be used to populate a GIS database that can be continually updated. The EPA is requiring that information of the inventory be submitted by October 2024. KEITH will also help with the preparation of a Standard Operating Procedure (SOP) outlining the service line replacement plan as part of this first Phase. The County will be performing the necessary testing and public outreach in areas where lead has been identified. In areas where there is insufficient information, test holes will be performed as part of the second Phase of this project along with executing the SOP. The first Phase of this project is currently on-going with the County.

Davie Boulevard 18" Water Main Improvements, Davie, FL: Tom served as Engineer of Record (EOR) and Quality Control Manager. The City of Fort Lauderdale had identified an existing 18" cast iron (CI) Water Main to be abandoned in-place running from I-95 east to Andrews Avenue. The purpose of this project was to transfer all services and water mains, connected to the 18" CI water main to be abandoned to an existing 24" ductile iron pipe (DIP) water main and to an existing 8" water main. Extensions of the public water system were required to supply the residential community fronting Davie Boulevard with the necessary domestic and fire service needs: 1,420-LF of 8" DIP along the south right of way line from SW 9th Avenue to the east approach of the New River bridge; 1,255-LF of 8" DIP along the north right of way line of Davie Boulevard from SW 4th Street to SW 8th Terrace; 1,154-LF of 8" DIP Water Main along the south right of way line from SW 4th Avenue to SW 8th Avenue. As the prime consultant, KEITH provided surveying, subsurface utility engineering, civil design, permitting, construction engineering inspection, and bidding services.

YEARS OF EXPERIENCE
46 years

YEARS WITH KEITH
7 years

EDUCATION
B.S. Civil Engineering,
Northeastern University
1978

PROFESSIONAL
REGISTRATIONS
60529, Professional
Engineer, Florida

PROFESSIONAL
AFFILIATIONS
National Association
of Industrial and Office
Parks (NAIOP) Member
Institute of
Transportation Engineers
(ITE) Gold Coast Chapter
Member Member
American Society of
Civil Engineers (ASCE)
Member

Jeff Atherton, M.Sc, A.Sc.T., PMP

Proposed Role: Deputy Program Manager / Task Lead

Education

Masters Science, University of New Brunswick, 1997

Bachelor of Science, Mount Allison University, 1996

Certificate of Engineering, Mount Allison University, 1996

Advanced Diploma (GIS), College of Geographic Science, 1999

Years of experience

24 (19 with AECOM)

Training and Certifications

Ontario Association of Certified Engineering Technicians and Technologist

Project Management Institute (PMP)

NASSCO (PACP/MACP/LACP), P0043364-072023

Federal Level II (Secret) Clearance

Jeff Atherton is senior director and lead technical specialist within AECOM's Infrastructure Services Group and brings over 23 years of project and program management experience in the municipal infrastructure industry with extensive linear and vertical asset condition assessment project portfolios. Jeff has worked on a wide range of multi-disciplined projects, including multi-year assessment programs, CIP development, infrastructure capacity assessment studies, asset management plan development and O&M optimization. Client-focused and responsive, Jeff holds an excellent track record of strong working relationships with owners, contractors and engineers, resulting in successful project delivery experiences. He has worked with key stakeholders such as the CVCA, TRCA MOE and Municipal departments, developing collaborative teams during all project phases.

Jeff is AECOM's infrastructure services group leader for Ontario. Within this portfolio, he oversees AECOM's delivery of hydraulic modelling, flow monitoring, water resources, data analytics and asset management services. Jeff's team comprises 4 managers and 5 project managers who are supported by an additional 42 professional and technical staff. As a group manager, Jeff provides financial and delivery oversight of all projects within his portfolio to ensure his team follows AECOM project delivery and QMS procedures.

As a project manager and people manager, Jeff acts as a central point of contact to de-escalate project delivery and staffing issues. He believes in keeping lines of communication open and regularly performs project reviews with his direct report project managers. In addition to managing people, Jeff also manages several projects and multi-year programs.

Selected Project Experience

2014/2019 & 2019/2024 Local and Trunk Sewer Condition Assessment Program, City of Toronto, Ontario (Deputy Program Manager) DPM for the City's linear wastewater assessment 5-year (2019/2024) program. He's currently overseeing the administration and delivery of an annual \$10M capital program, which includes assessment and rehabilitation of 750 km of gravity sewers and 10,000 manhole inspections in a single year. As part of the program, AECOM is validating contractor CCTV specifications adherence and developing a comprehensive rehabilitation program, including capital budgeting and the use of advanced trenchless technologies within InfoAsset Manager. 2014-ongoing.

Basement Flooding Protection Program Capacity Assessment Studies – Bundle B, City of Toronto, Ontario (Project Manager) Developing capacity assessment studies that recommends Solutions to increase the capacity of municipal underground and overland drainage systems. The objective of this effort is to reduce the risk of future basement and surface flooding, by reducing the risks of flooding coming from shortfalls in the capacity of the municipal drainage systems. Each study report is to be prepared in accordance with Phase 1 of the Municipal Engineers Association's (MEA's) Municipal Class EA Process. 2019-ongoing.

2019/2023 Sewer & Maintenance Condition Assessment Program, City of Guelph, Ontario (Project Manager) Jeff is currently the project manager of the City's 3-year program to clean and assess 300 km of storm and sanitary sewer. AECOM is current managing two contracts on behalf of the City. 2019-ongoing.

Utilities Data Acquisition Program, Defence Construction Canada (Program Manager) Jeff is currently the program manager managing DCC's utility assessment program on a number of Canadian Forces Bases across Canada. He's currently managing programs at 12 Wing Shearwater, 15 Wing Moose Jaw, 14 Wing Comox and CFB Edmonton and CFB Borden. Work under these commission include. sewer capacity assessment studies, condition assessment, sewer rehabilitation and asset registry cleanup. Within these assignment Jeff must manage several contractors and AECOM field crews while adhering to strict Department of National Defence security requirements. 2020-ongoing.



Anthony Dowell, GISP, IAM Cert.

Condition Assessment & Asset Management

- 15 years of experience
- MPS, Geographic Information Systems, University of Maryland, 2013
- BS, Geography and Environmental Systems, University of Maryland, 2008
- Certified Geographic Information Systems Professional (GISP): #00056750
- Asset Management Certificate, Institute of Asset Management (IAM): #6123684
- NASSCO P/M/LACP

Anthony is an Associate Vice President and GIS & Asset Management Practice Lead based in AECOM's Baltimore, Maryland office. He is an experienced Project Manager who is well versed in leading multidisciplinary teams supporting projects across a wide range of disciplines, including water, wastewater and stormwater utilities, surface transportation, aviation, environmental resources and planning. Specializing in implementing and leveraging geospatial, condition assessment and asset management technologies, tools and data to support various types of projects, he has extensive knowledge of the Esri ArcGIS platform, as well as a variety of other open source and proprietary platforms and applications utilized for GIS, asset management, database management & modeling. His areas of expertise include enterprise GIS, infrastructure asset management, subsurface utility engineering, spatial and statistical analysis, inspection and condition assessment, mobile data collection, remote sensing, data visualization, and database design and management.

Project experience

City of Fairfax Public Works Department, Engineering and Construction Management Services, Fairfax, VA (Technical Lead). Technical Lead for various task orders to assist the City of Fairfax with the development of a dedicated stormwater program built on asset management principles. Activities included the development of a Stormwater Program Plan, development of a stormwater risk framework, enhancement of the City's existing stormwater asset inventory, and general GIS and asset management planning support services.

GIS & Engineering Records Document Management Support Basic Ordering Agreement, Washington Suburban Sanitary Commission, Montgomery and Prince George's Counties, MD. Project manager for this Basic Ordering Agreement (BOA) to provide WSSC's GIS & Engineering Documents Section with technical support focused on enterprise Geographic Information Systems (GIS), Enterprise Content Management (ECM), Building Information Modeling (BIM), e-Builder & Primavera.

Geographic Information Systems (GIS) BOA, Washington Suburban Sanitary Commission, Montgomery and Prince George's Counties, MD. Project manager for this BOA to provide on-call geospatial and technology support services to WSSC's GIS and Engineering Documents Section. Manages all task orders under this contract which include GIS application development, GIS data and database management, infrastructure inspection & condition assessment, UAS-based aerial mapping and data acquisition, systems integration business process optimization, application

development, and staff augmentation for GIS, CAD and document management.

Trunk Sewer Inspection and Surveying #1130, Washington Suburban Sanitary Commission, Montgomery and Prince George's Counties, MD. Project manager for four-year Consent Order project with a one-year option which includes sanitary sewer inspection and condition assessment, surveying, data and database management, GIS services and various engineering support services. Responsibilities include overall project and contract management, field operations management, data management and enterprise GIS support, as well as providing technical oversight and subject matter expertise. Oversees inspection operations, with multiple crews in the field every day performing manhole inspections and other field and investigative services. Provides GIS support services which include map development, data development and maintenance, custom tool development, mobile application development and deployment and enterprise GIS support. Also supported the evaluation and implementation of various tools and technologies to support WSSC under this contract, including terrestrial and aerial-based LiDAR acquisition and processing, as well as the deployment and management of a network of Internet of Things (IoT) connected sensor nodes to support remote monitoring and data collection efforts. Dowell's Team is also providing comprehensive Unmanned Aircraft Systems (UAS) services, including strategic planning, training, mission planning, permitting, and data acquisition, processing & analysis.

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Natalie Ciletti, GISP

Data/Database Management, Task Leader

- 11 years of experience
- BS, Environmental Science, Towson University, 2013
- Geographical Information Systems Professional: #161270

Natalie provides technical support and oversight on a wide range of projects and programs, with broad expertise in geospatial data collection, development, management, and analysis. Her project experience covers a multitude of disciplines, including stormwater, water/wastewater, energy, environmental resources, surface transportation and aviation, with a primary focus on the collection, processing and management of spatial and non-spatial data utilizing a variety of proprietary and open-source software and systems. She is highly proficient with the Esri ArcGIS suite, including ArcGIS Desktop and extensions, ArcGIS Online, Portal for ArcGIS, and mobile tools that include Field Maps, Survey 123 and ArcPad.

Project experience

On-Call Stormwater Asset Management Engineering Support, City of Baltimore Department of Public Works (DPW), Office of Asset Management (OAM), Baltimore, MD. GIS specialist for this on-call stormwater asset management and associated services task. Duties include developing a survey logic driven schema for BMP inspection collection using Survey123, as well as overseeing data collection and monthly reporting duties. Used Survey123 to tailor data collection form specific to the type of BMP being inspected and to generate custom configured, data-driven feature reports.

VSMP MS4 Stormwater Support Services, City of Virginia Beach Department of Public Works/Engineering, Virginia Beach, VA. Lead GIS specialist for the Stormwater Management facility asset management work order. Responsibilities include overseeing GIS data management for the engineering records review for over 3500 BMP facilities, providing semi-automated updates of BMP drainage area delineations for those facilities, and calculating impervious area treated. Administers AGOL for the project that facilitates the collaboration of drainage area review via web applications.

Storm Drain Inventory & Assessment, Prince George's County Department of Public Works & Transportation, Prince George's County, Maryland (GIS Specialist). GIS Specialist for this inventory project focused on inspection, inventory and condition assessment of over 12,000 stormwater assets in Prince George's County. Responsible for managing field data collection efforts, quality control oversight, and other mapping and GIS data efforts for field planning.

Modified Consent Decree (MCD), City of Baltimore DPW, OAM, Baltimore, MD. GIS specialist and technical consultant for Consent Decree order which includes sanitary sewer inspection and condition assessment, surveying, data management, GIS services and other engineering services. Responsibilities include spatial

analysis, data acquisition, QA/QC, and technical review. Leads effort to develop fully digital asset construction tracking workflow using Field Map Application and dashboard development. Developing data collection processed for vertical asset inventory of City treatment plant facility.

Regional Stormwater Support, Naval Facilities Engineering Command Washington, MD and D.C. GIS specialist for the stormwater condition assessment task that included multiple NAVFAC facilities in Maryland and Washington, D.C. Developed the field collection application used for field inspection and subsequently helped to automate the creation of photologs and mapping used to report the condition assessment of stormwater assets, including inlets, manholes, catch basins, pipes and BMPs. Also provided oversight for GIS data management.

Sewer Lines Assessment, Vice President's Residence, U.S. Naval Observatory, Washington, D.C. GIS technician for this condition assessment study focused on the sanitary sewer system for the Vice President's Residence (VPR) at the United States Naval Observatory (USNO) in Washington, D.C. Developed detailed mapping figures to report condition assessment findings from CCTV inspection. Integrated data from a variety of sources including historical records and GPS collected data into a NAVFAC-compliant GIS deliverable and produced the system mapping and other report exhibits.

Whitemarsh West Structural Sewer Rehabilitation, Baltimore County Department of Public Works, Baltimore County, MD. GIS specialist for an ongoing sewer rehabilitation design project for the Whitemarsh sewershed. Performs onsite environmental and asset field surveys and assists with the creation of the Forest Stand Delineation (FSD), Joint Permit Application (JPA), and the Wetland Delineation Report. Additionally, assists the design team with mapping efforts and GIS data management.



Thomas Johnson, GIP, ITCP



Structural Inspection Lead

- 21 years of experience
- BS, Specialty, Townson University, Year
- National Green Infrastructure Certification Program Professional (NGICP) Certification
- NASSCO P/M/LACP and Inspector Training and Certification Program (ITCP) Certification

As an Engineering Technician/Field Engineer, Tom supports a variety of projects and programs with a primary focus on supporting engineering activities focused on water, wastewater and stormwater. His areas of expertise include water/wastewater design, condition assessment and rehabilitation, with a focus on site health and safety. Mr. Johnson also has experience in field investigations, permitting, flow monitoring, flow isolation, GPS data collection, exposed sewer investigations, GIS analysis and map production.

Tom is OSHA 10-hour and 30-hour, Confined Space Entry and Adult First Aid & CPR trained. He is also NASSCO Certified for Manhole Assessment, Pipeline Assessment and Lateral Assessment.

Project experience

On-Call Stormwater Asset Management Engineering Support, Baltimore Department of Public Works, Office of Asset Management, Baltimore City, MD. Inspection and field services lead for this On-Call contract to provide comprehensive stormwater asset management support services to the Office of Asset Management. Manages and oversees all inspection, condition assessment and maintenance activities under this contract, which includes the stormwater collection system, BMPs, green infrastructure and various related stormwater infrastructure.

Trunk Sewer Inspection and Surveying #1130, Washington Suburban Sanitary Commission, Montgomery & Prince George's Counties, MD. Field services lead for this condition assessment Consent Order project including sanitary sewer inspection and condition assessment. Provides field and mapping support for a condition assessment survey of exposed assets. Supports various data collection, management, processing and QA/QC activities, including maintenance of WSSC's enterprise GIS data through a replicated environment. Also supports Unmanned Aircraft Systems (UAS) planning, implementation and operation, as well as the maintenance and management of a network of Internet of Things (IoT) connected sensors deployed in the Piscataway Basin as part of an ongoing pilot study.

Storm Drain Inventory & Assessment, Prince George's County Department of Public Works & Transportation, Prince George's County, MD. Engineering and field support for this project for the Prince George's County Department of Public Works & Transportation (DPW&T) under the Storm Drain Inventory (SDI) program. Provided comprehensive stormwater asset inventory, mapping, inspection, and condition assessment services for the County's stormwater collection, conveyance and treatment

DC Water Contract #490 – WSA Task Order No. 5 Lower Eastside Interceptor Washington, DC.

AECOM

systems, as well as a variety of technical support services related to GIS, data collection, data & asset management, and quality control support.

NPDES Phase II MS4 Permit Support, Department of Homeland Security (DHS) Federal Law Enforcement Training Center (FLETC), Cheltenham, MD Field and engineering support for this project focused on inventory and condition assessment of stormwater infrastructure across the 234-acre FLETC-OCH facility. Provided field engineering support, in addition to condition assessment of stormwater structures and facilities, GIS services and data evaluation.

Trunk Sewer Inspection and Surveying #6031, Washington Suburban Sanitary Commission, Montgomery & Prince George's Counties, MD. Engineering and field support for this Consent Decree-driven field engineering and analysis effort. Over 5,300 manholes and two million LF of trunk sewers 15-inches or greater in diameter were inspected and surveyed as part of an on-going effort to assess the conditions of the existing sewer system in Montgomery and Prince George's Counties. Specific tasks included GIS analysis of field data, map design for field crews/ subcontractors, QA/ QC of sanitary sewer manhole inspections, implementing field data into GIS, manhole/exposed pipe inspection, GPS data collection of WSSC assets.

Gwynns Falls Task O – Project Effectiveness Flow Monitoring, Baltimore County Department of Public Works, Baltimore County, MD. Task manager for this effort focused on post-construction sanitary sewer flow monitoring within the Gwynns Falls Sewershed, and pre- and post-construction analysis to determine the effectiveness of rehabilitation and repair efforts. Responsible for oversight of all project and field activities, including flow meter installation and maintenance, data review and quality assessment, and reporting. CCTV/ Sonar Inspector 12,000 LF of Sonar inspection and 28 manhole inspections. Work was completed during the day and at night depending on the location of the work. Coordination was key between Traffic control, the Congressional Cemetery, and the DC Jail to ensure inspections were able to take place.

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Aren Warner

GIS Data Services

- 3 years of experience
- BS, Geography, University of Maryland - Baltimore County, 2020
- GIS Science, University of Maryland - Baltimore County, 2020
- PACP-LACP-MACP, NASSCO, P0035558-012022

Aren is a GIS specialist with experience in an array of projects. He consistently provides GIS support primarily through map production, data collection/editing, and the management and documentation of spatial and non-spatial datasets. Aren's efforts have been focused on projects within the disciplines of stormwater infrastructure, environmental permitting/regulation, and transportation. He has more recently specialized in spatial/non-spatial data QA/QC and data management documentation through the production of geodatabase schematics and the development of standard operating procedures. Aren is well-versed in the ArcGIS desktop product suite, as well as data collection applications Survey123, Collector, and Field Maps for ArcGIS.

Project experience

Virginia Beach Department of Public Utilities, Stormwater Management Facility Asset Management, Virginia Beach, VA. GIS specialist providing ongoing support for the drainage area delineation of over 3000 best management practice (BMP) structures. Delineation includes the use of specialized ArcHydro tools for ArcGIS Pro.

Washington Suburban Sanitary Commission, Trunk Sewer Inspection Services, Laurel, MD. GIS specialist provided support, as needed, on a project involving sanitary sewer inspections/surveying by producing maps highlighting assets to be surveyed as well as post-processing GPS adjustments. Also provided support on quality control efforts for flow meter basin data and prepared maps for each WSSC sewer basin with their individual flow meter basins.

City of Fairfax, Stormwater Program Plan, Fairfax, VA. GIS specialist assisted with modifications to storm drain inspection protocols and the build-out of a storm drain GIS geodatabase utilizing necessary ArcCatalog tools, including Xray for Geodatabases. Also assisted the client by providing troubleshooting for an additional geodatabase build-out ensuring the accuracy, completeness, and validation of the proposed schema.

City of Baltimore, Consent Decree Program Management, Baltimore, MD. GIS specialist developed data collection applications through Esri's Field Maps/Web App builders to assist with inspection efforts on both water and sanitary sewer pipeline rehabilitation and installation within the City of Baltimore. Additionally, assisted with training city engineers on both mobile field and desktop applications.

City of Baltimore, On-Call Stormwater/Asset Management Services, Baltimore, MD. GIS specialist performed in-field data collection on stormwater outfalls inspecting structural integrity, potential pollutant contamination, and filling data gaps by capturing recently

removed/added structures within the stormwater network. Also coordinated access to private properties containing assets as well as performed data QA/QC checks and edits for resulting discrepancies. Additionally provided technical writing services to create and update data standards /other technical documentation supporting stormwater GIS data management. Also developed, updated, and documented ArcGIS Data Reviewer Files (.rbj format) for stormwater and MS4 datasets ensuring said data standards are tracked and met.

Prince George's County Department of Public Works and Transportation, Horizontal Engineering Services 2012-2024 - Storm Drain Inventory Update, Prince George, MD. GIS specialist provided support on a multi-watershed level inventory of stormwater assets through map production, in-field data collection, coordination and consultation with field engineers, and post-field data quality control.

Anne Arundel County, Riva Road Corridor Study, Annapolis, MD. GIS specialist provided technical support by converting CAD engineering data to GIS for use in the development of a public-facing web application. Mapping layers were discerned from the CAD and had symbology prepared for final use.

US Department of Homeland Security, Sustainability & Environmental Support BPA 2020-2025 - Phase II Support Services, Germantown, MD. GIS specialist provided support on a storm drain condition assessment by developing a GIS geodatabase schema for data collection and performing in-field condition assessments on the comprehensive storm drain network. Additionally made enhancements to the data collection field app to improve functionality and developed a small dashboard to provide real-time updates on assessment progress.



Greg Thacker

Systems Integration/CMMS

- 30 years of experience
- BS, Landscape Architecture, University of Kentucky

Greg is responsible for overseeing the application of technology in developing innovative solutions, including integration of business systems and asset management support solutions. Greg's technical specialties are focused on computerized maintenance management system configurations, program development for ESRI products and integration of business processes for utility and data schema development. He provides expertise on GIS and CMMS workflow development that maximizes system utilization.

Project experience

City of Baltimore DPW, City of Baltimore Wet Weather MCD Program Cityworks Support and Workflow Updates, Baltimore, MD. Project Management Team Lead for Cityworks support and development of workflows. Developed Cityworks workflows for tracking and reporting of Sanitary Sewer Overflows and the Fat Oil and Grease program. Oversaw the development of training materials and training for the implementation of the two workflows. Coordinated Cityworks integration and programming staff to support the customized needs of the client and the workflows. Technical lead for the development of Power BI dashboards for the newly implemented Sewer Water in Basement program implemented in Cityworks and GIS to provide a dashboard for tracking all key performance indicators for response times, number of incidents, cause, and contractor cost and customer satisfaction.

Salt Lake City New Water Reclamation Facility, CMMS Evaluation Study, Salt Lake City, UT. Conducted a high-level evaluation of CMMS/EAM software, resulting in submittal of a Memorandum that explained the selection process and end user contacts for each selected vendor. A list of questions was developed for the client to be used during the interview process of each of the selected vendors.

Detroit Water and Sewerage Department, Cityworks Implementation and Business System Integration Services, Detroit, MI. Project Manager providing oversight of the implementation of Cityworks for Water and Sewer services, facility management, and warehouse management. Oversees various teams providing integration services to various enterprise systems including billing systems, financial systems, fleet management systems, and public facing request systems. Lead facilitator for workshops related to business workflows.

Detroit Water & Sewerage Department, Capital Improvement Program, Detroit, MI. Technical lead for CMMS specifications development and lead for selection

of CMMS, workflow development to support the Asset Management plan, and CMMS implementation.

City of Monroe Asset Management Program Implementation, Monroe, MI. Technical advisor responsible for evaluating CMMS and CCTV functionality to support the analysis and detailed cost comparison of the CMMS/AM system. Other duties include Technical lead or programming staff during the development of custom GIS tools to evaluate the Consequence of Failure and Condition of Assets based upon various mapped inputs and weighted scores. The project will be upgrading/replacing the current computerized maintenance management software. This includes the implementation of additional work orders and standard operating procedures.

City of Charleston, Sub-Watershed Study, Charleston, SC. Managed GIS project team in the field collection of Stormwater assets and their condition. Responsible for creation of field inventory specifications and guidelines for conducting the inventory and condition assessment of related stormwater assets. Oversaw the development of filed inventory data collection system to facilitate data flows and ongoing Stormwater mapping projects.

Parker Sewer Fire District, Cityworks Implementation, Integration, and Hosting of Enterprise GIS and CMMS, Greenville, SC. Provided project management and facilitated workshops regarding asset management workflows and GIS data schema to customize the local government information model to support asset management program and a Cityworks implementation. Other duties included the development of training materials and conducting Cityworks end user training. The implementation included the integration with CUES GraniteNet CCTV.

Taylor's Fire and Sewer District, Cityworks Implementation, Integration, and Hosting of Enterprise GIS and CMMS, Taylors, SC. Project Manager. Provided project management and facilitated data model workshops to customize the local government information model to support an asset management program and a Cityworks implementation. The implementation included the integration with PipeLogix CCTV and the South Carolina call before you dig program.

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Jim O'Dowd, PE

Asset Management

- 27 years of experience
- BEng, Civil Engineering, University College Cork, 1994
- Professional Engineer: VA #0402042460

Jim has 27 years of experience in water and wastewater consulting. He implemented a full office and mobile asset management software solution using InfoAsset Manager. His work involved enterprise implementation and the resulting data was directly used for defensible decision making throughout all programs within the organization from planning, operation and maintenance to capital improvement. Jim built and maintained an all-mains sewer hydraulic model in InfoWorks ICM and an all-mains water hydraulic model in InfoWorks WS Pro with direct SCADA connections using IW Live. He is the current Chair of the ASCE Water Infrastructure Asset Management – Practical Data Analysis Committee within the Utility Infrastructure Asset Management Division. He has presented multiple papers at national and international conferences with a primary focus on hydraulic modeling and asset management.

Project experience

City of Baltimore, Office of Asset Management, Baltimore, MD. Asset and Data Management Subject Matter Expert. Duties involve specification review for pipeline and manhole cleaning and condition assessment, review of multiple preventative maintenance programs including targeted cleaning, chemical root control, acoustic monitoring, sanitary sewer overflow investigations / root cause analysis, staff training in asset management software.

Western Virginia Water Authority, Infrastructure Asset Management, Roanoke, VA. Infrastructure Asset Manager. Responsible for hydraulic modeling, asset management, GIS management, data analysis and QC, technical lead for CIP project selection, fire flow analysis, sewer flow meter selection and model calibration, pipe selection for chemical root control, large diameter CCTV, acoustic monitoring, paving program pipe evaluation, DMA analysis, SMA analysis, master planning, initiator of standard operating procedures for numerous programs, personnel training in multiple departments, staff development, and education.

Draper Aden Associates, Utilities Program, Blacksburg, VA. Utilities Team Leader. Responsible for hydraulic modeling, sewer modeling, surge modeling, water/ sewer design, preparation of sewer/water studies, contract administration, trenchless technology, asset management, and staff supervision.

Detroit Water and Sewerage Department, Detroit Capital Improvement Program Management Organization, Detroit, MI. Capital Improvement Program (CIP) and Condition Assessment Lead. Duties involve preparation of the pre-planning risk and criticality evaluations to select assets for condition assessment, managing the import and evaluation of sewer and water inspection data, making resultant CIP recommendations,

evaluation of hydraulic model and work-order data, preparation of submittals to regulatory authorities, preparation of standard operating procedures (SOPs) and staff training in SOPs and software.

Johnston Engineering Associates, Engineering Services, Lakewood, CO. District Engineer. Managed three sanitary lift stations, sewer mains – pipe cleaning, CCTV inspection, root-cutting programs, two water treatment plants, five potable wells, three storage tanks, irrigation pump stations, maintenance of 27-acre irrigated park and trails, fourteen miles of roadway, water system, trails, park, drainage and erosion control in high-end community. Contractor Supervision included sewer/water, paving, landscaping, maintenance operations.

Contract preparation and administration for water tank construction, cured-in-place lining of sewer mains, water main design, irrigation pump station installation, pipe-bursting of sewer mains, park restroom construction, tennis court construction, concrete trail and sidewalk installation.

Worked closely with district managers, attorneys and district board members establishing policies, negotiating contracts and agreements. Master plan creation and implementation. Co-ordination with regulatory authorities, developers and adjoining districts.

Haley and Ward, Inc., Waltham, MA. Design Engineer. Water/sewer main design and inspection, hydraulic modeling, contract administration, storage tank coating rehabilitation design and inspection, cleaning and lining of water mains, cured-in-place lining of sewer mains, I/I study supervision, roadway design and reconstruction.

Chris Macey, P. Eng.

Proposed Role: Condition Assessment and Rehabilitation Senior Advisor

Education

BSc, Civil Engineering,
University of Manitoba (1977)

Years of Experience

With AECOM: 45
With Other Firms: 0

Licenses and Registration

Cathodic Protection Design,
University of Wisconsin
at Madison, 1985

Professional Associations

Association of Professional
Engineers and Geoscientists of
Manitoba
Association of Professional
Engineers, Geologists and
Geophysicists of Alberta
Association of Professional
Engineers and Geoscientists of
Saskatchewan
Association of Professional
Engineers and Geoscientists of
British Columbia
Association of Professional
Engineers of Ontario

Professional History

03/1978 - present, AECOM,
Project Engineer, Senior Project Engineer,
Senior Program Manager, all progressing to
being a National Technical Specialist and
Senior Technical Director since 2000;
Americas Technical Practice Lead since
2012, Global Technical Practice Lead since
2021

Professional History

Chris Macey, P. Eng. is the Americas and Global Technical Practice Leader for work pertaining to the assessment and rehabilitation of sewer and water infrastructure for AECOM. Since 1978, Chris has worked as a Project Engineer, Project and Program Manager, Senior Technical Advisor and as a Senior Technical Specialist, and Subject Matter Expert on a diverse array of projects and major programs for Cities across North America as well as global geographies. Chris is also AECOM's global Technical Practice Network leads for the Condition Assessment and Rehabilitation of Linear Infrastructure, a Technical Network dedicated to dissemination of best practices for existing technologies as well as the development of new technology and for AECOM and their clients.

Chris has extensive knowledge of pipeline materials, pipe/soil structure design principles, pipeline deterioration processes, the interaction of pipes and the fluids they convey with the environment and pipeline rehabilitation technology. He specializes in work where pipelines will be subjected to adverse conditions and in complex projects where minimum risk exposure is desired.

Selected Project Experience

Metro-Vancouver - TM 4 – Options Evaluation and Recommendations for Rehabilitation of Existing Influent Conduit to the AIWWTP- Subject Matter Expert (SME) to assess and rationalize rehabilitation requirements for the Influent Conduit and all appurtenances at the Annacis Island Wastewater Treatment Plant (AIWWTP). This included review and rationalization of rehabilitation requirements for portions of the South Surrey Interceptor (SSI) and the New Westminster Interceptor (NWI) . The work was carried out in 2020/2021.

Metro-Vancouver – Assessment and Remedial Works Support for the Relining of the Triple Barrel Highbury Siphon with CIPP – Subject Matter Expert (SME) to assist Metro-Vancouver with assessment of defects found in two of the three CIPP liners installed for the Fraser River Crossings from 2010 through 2012. The 1700 mm liners were installed in three (3) separate contracts and 2 of 3 had various levels of deficiencies that needed thorough assessment to ascertain the root cause of defects that were present and whether the installed liner could be remediated in a manner that fully met the design objectives for the rehabilitation (i.e. a design life in excess of 50 years). The investigation included site inspections and advanced sampling and structural assessments to develop a remedial works program which was implemented in 2012. Post remediation inspections have confirmed that the resolution of the defects have enabled the liner to fully meet long term design life objectives.

Metro Vancouver, Seymour Main No.2 Drainage Structure Assessment. Senior Technical Advisor for the CCTV inspection and internal condition assessment of drainage structures crossing the Seymour No.2 Main.

Metro Vancouver, Seymour Main No.2 Cleaning and Condition Assessment. Senior Technical Advisor for the assessment and development of cleaning and condition assessment approach for 2,286 mm diameter steel raw water supply main.

City of Victoria, Brick Storm Drain Condition Assessment and Rehabilitation Program (2009 – date), Senior Technical Advisor, involving condition assessment, rehabilitation needs determination and implementation of risk-based priority driven rehabilitation program. The annual program commenced in 2011 and is on-going in 2023.

District of Saanich Wood Stave Storm Drain Replacement Program, 2011 through 2019, Senior Technical Advisor, involving determination of most advantageous method of rehabilitation, development of quality assurance requirements and implementation of the program with predominately trenchless technologies such as CIPP and sliplining.

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Magdala Cayemitte, PE, CDT

Water/Wastewater Engineer & Project Manager

Education

BS, Civil Engineering, Florida International University, 2006

Years of Experience

16

Registrations/Certifications

PE/Florida/#92241
Construction Documents Technology (CDT)

Magdala Michel has more than 15 years of experience in water and wastewater engineering, with primary involvement in construction documents. Magdala is a driven and highly motivated team leader with extensive experience in the civil engineering & construction industry, specializing in pipeline design, specifications, and project management. She has a proven track record of leading and executing large-scale water/wastewater and stormwater conveyance projects in South Florida. Her top areas of expertise include the following: water distribution/transmission systems, stormwater management, construction documents, sanitary sewer collection systems, construction management, and cost control/estimating.

Magdala Michel has been certified by the Construction Specifications Institute (CSI) since 2018 with a certification on Construction Documents Technology (CDT). Magdala has a comprehensive knowledge of the writing and management of construction documents.

Project Experience

Miami-Dade Water & Sewer Department Consent Decree Program, Wastewater Collection and Transmission System Improvements- WTCS, Miami, FL. Project Engineer. The WTCS as stipulated by an EPA Consent Decree. Over 40 standalone project task authorizations were issued with facilities including 21 pump stations with firm capacities from less than 1 mgd to greater than 40 mgd, and pumping units up to 450 hp. Additionally, there were more than 37 conveyance pipeline replacements or rehabilitations up to 60-inch diameter totaling over 70,000 linear feet. Work included new design, rehabilitation, replacement in-kind, expansions, upgrades, and modernization, permitting, cost estimating, and construction services and support. As

Project Engineer, Ms. Michel performed the following tasks: managed multidisciplinary subconsultants (Architect, civil engineering, landscaping, surveying, etc.) and in-house engineering staff. Ms. Michel also served as Lead Design Engineer for the proposed water distribution/transmission and civil site design. Ms. Michel prepared the bidding package for both pipelines and Pump station projects. Ms. Michel led construction support services for both pump station and pipeline projects, coordination with the client, construction management team, sub-consultants and contractors.

Miami-Dade Water & Sewer Department, Alexander Orr Jr. Water Treatment Plant (AOWTP R&R) Lime Kiln Electrical Switchgear Building. Project Engineer. The AOWTP is a conventional lime softening facility with a design capacity of 256-MGD, respectively. Work was performed as part of a multiple-year master service agreement. Improvement included a lime kiln support system with an electrical switchgear building and a 50-mgd 2250-hp engine driven high service pump replacement. As Project Engineer, Ms. Michel prepared the bidding package, leading the permitting and coordination with all regulatory agencies, and construction phase services.

Miami-Dade Water and Sewer Department, Alexander Orr Water Treatment Plant (AOWTP) High Service Pump No. 6 Replacement, Miami, FL. Project Engineer. The Facility assessment of the AOWTP includes the evaluation and recommendation of equipment repairs replacements and/or improvements associated planning-level cost estimates and a prioritization schedule of the identified facility needs for the AOWTP. As Project Engineer, Ms. Michel prepared the bidding package, leading the permitting and coordination with all regulatory agencies, and construction phase services.

Mitchell W. Savitski, E.I.

Personnel: AECOM Water Resources Engineer in Training

Key industriesWater Resources
Water/Wastewater Utilities
Water Treatment**Education**B.S., Civil Engineering,
Florida Atlantic University
Boca Raton, FL, 2015-2020**Registrations/Certifications**Engineer Intern: Florida
#1100024384, 2021NASSCO PACP/LACP/MACP
Cert. No.: P0044097-09023**Summary**

Mitchell began his career in 2019 with experience in water resources design and construction, including water/wastewater utilities and water treatment.

Select Experience**City of Miramar West Water Treatment Plant 2.5 MGD Reverse Osmosis Expansion, 1 September 2022 – Present**

Responsibilities: prepare bid drawings for chemical feed systems including anti-scalant and sulfuric acid pumping skids; prepare technical specifications for submittal packages; attend client meetings to discuss submittals; conduct field visits to acquire information for design.

SFWMMD, Stormwater Treatment Area 1 West Expansion 2, 2 December 2019 – Present

Responsibilities: reviews RFIs and submittals against the Contract Documents to ensure conformance with project requirements and drafts response comments to Contractor; produces redline construction drawings based on RFI responses; performs quantity take-off calculations of materials to review against Contract invoicing; designed engineering details for the addition of Flashboard Risers to the project scope with accompanying calculations; verifies surveying coordinates using AutoCAD Civil 3D.

Town of Lake Clarke Shores, FL – Maralago Cay Sewer Rehabilitation, 1 February 2022 – Present

Responsibilities: review CCTV reports of mainlines and laterals to prioritize rehabilitation work for Town's sanitary sewer system.

Town of Lake Clarke Shores, FL – Lawrence Rd 12-Inch Watermain Extension – Phase 1, 1 February 2021 – Present

Responsibilities: reviews RFIs and submittals against the Contract Documents to ensure conformance and submit response comments to Contractor; performs site

observance and inspections of project to ensure construction is in compliance with Contract Documents; write daily field reports using notes and photos taken during daily site observance for Owner/Engineer of Record; designs revisions of project drawings based on needs determined in the field; ensures ongoing construction is compatible with the following Phase 2 project.

Town of Lake Clarke Shores, FL – Lawrence Rd 12" Watermain Expansion – Phase 2, 26 June 2021 – Present

Responsibilities: design watermain extension that is set to follow the Phase 1 project; resolves conflicts with existing and future utilities during design; optimize watermain design during subsequent iterations; produce engineer's cost estimate for construction of project; will perform site observance and inspections of construction and produce daily field reports for Owner/Engineer of Record.

Town of Lake Clarke Shores, FL – Lift Station 6, 7, 15 Rehabilitations, 1 February 2021 – Present

Responsibilities: perform full set of lift station calculations for flows, cycle timing, wet well sizing, pump sizing, pipe sizing, buoyancy forces, ballast size, and pump curves; solicits construction bids and reviews bidders' credentials & references and makes recommendations to Owner; reviews submittals and RFIs against Contract Documents to ensure conformance with project requirements and drafts response comments to Contractor.

City of Riviera Beach – Lift Station Structural Assessment | City of Riviera Beach, FL - 3 March 2021 – 28 March 2021

Responsibilities: Collected data regarding existing structural conditions for all of City's lift stations, taking detailed notes and photos about the presence of structural deficiencies in the wet well, valve boxes, slabs, and the interior of dry can stations.

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Exhibit 3
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Devan Thomas, P. Eng., M. ASCE

Vice President, Global Conveyance Market Sector Leader

Key Skills

Asset Management and Optimization
 Condition Assessment and Rehabilitation
 Hydraulic and Hydrologic Modeling
 Master Planning
 Digital Innovation and Adoption

Education

BSc, Water Resources Engineering, University of Guelph, 1994
 BA, Physical Geography, York University, 1988

Licenses/Registration

Professional Engineer, Ontario

Professional Associations

Professional Engineers Ontario
 American Society of Civil Engineers
 American Water Works Association
 Ontario Water Works Association
 Water Environment Federation



Total Years of Experience

28

Years with AECOM

23

Professional History

Mr. Thomas has over 25 years of experience that has focused on water and wastewater infrastructure planning, hydraulic modeling and asset management. He provides technical leadership in master planning, risk assessment and the development of condition assessment and data collection programs and developing rehabilitation and operations and maintenance plans and strategies. Those plans and strategies aim to improve levels of service, extend asset life and reduce life cycle costs. He works extensively with technology providers to effectively leverage the latest tools, integrate with existing systems and enable/improve asset management activities including advising on the digital tools and workflows necessary to support these activities and was one of the driving forces behind AECOM's AI-driven automated defect recognition tool called PipeInsights. Mr. Thomas is also past Vice Chair of the Asset Management Division of the Utility Engineering and Surveying Institute, an institute of ASCE.

Project Experience

Asset Management

Task Leader, Office of Asset Management Support.

Task Leader coordinating support activities to Office of Asset Management, Department of Public Works, City of Baltimore as part of the Modified Consent Decree Programs.

Executive Sponsor, PipeInsights™. Leads the team from concept to delivery of AECOM's PipeInsights Software-as-a-Service offering. PipeInsights uses machine learning and artificial intelligence to automatically detect defects in sewers and assists engineers in selecting the most cost-effective operational and structural rehabilitation strategies.

Planning Manager, Detroit Water and Sewerage Department, Detroit, Michigan. Planning Manager for the \$400MM USD Capital Improvement Program Management Organization (DWSD) implementing water distribution system and wastewater collection system improvements across the City based on asset management principles.

Program/Asset Management Advisor, Allegheny County Sanitary Authority, Regionalization Program, Allegheny County, Pennsylvania.

Program and asset management advisor for the assessment, on-boarding and rehabilitation of collection system infrastructure from 84 municipalities flowing into ALCOSAN's system.

Principal Investigator, Water Research Foundation (WaterRF). Co Principal Investigator for WaterRF Project #4666: Case Study Compilation on Applying Risk Management Principles and Innovative Technologies to Effectively Manage Deteriorating Infrastructure. The purpose of the study is to compile case study examples from utility programs and projects on strategies and tools to manage deteriorating water system infrastructure, especially those efforts that involve the management of risk and the use of innovative condition assessment and renewal technologies.

Asset Management Leader, Collier County Master Plan. Developed level of service standards (LoSS) and asset management framework/plan and performed water/wastewater risk assessments as part of long-term water and wastewater master plan for Collier County, Florida.

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OMAR HERRERA, PE – Project Manager

EDUCATION

MBA, University of Miami, Coral Gables, FL

BS Civil Engineering, Florida International University, Miami, FL=

REGISTRATIONS/CERTIFICATIONS

Professional Engineer (PE), Florida No.89107

PROFILE

Project Manager with extensive experience in delivering construction management and inspection services for over \$250 million in construction including Local, State and Federal Agencies.

PROFESSIONAL EXPERIENCE

Broward County Regional Transmission Master Plan for Broward Water and Wastewater Services – Project Manager – Broward County, FL | 2019-2020. Site inspections and evaluation of the 11 Master Pump Stations that integrate the system to provide recommendations for repair, replacement and improvements necessary for the Pump Stations. Mr. Herrera was responsible for the development of assessment criteria for the evaluation of physical and performance asset conditions, development of Surety123 forms for field inspections, coordinating and conducting the assessments for the I&C and Structural disciplines, and preparing the technical

Development of Standard Operating Procedures for the Hollywood Reservation’s Water Treatment Plant and Distribution and Collection System – Principal / Project Manager – Seminole Tribe of Florida, FL The SOPs developed in this project include step by step procedures which will create efficiencies in the operations of the systems and will support in the training of Tribe’s personnel. The SOPs include: Water shut off in case there is a water leak in the distribution system; Inspection of chemical injection points and what to do when a chemical injection point fail (including leakage), Start-up and Daily Steps of Operating the Water Plant; Valve exercising; Hydrant flushing; Hydrant flow test; Lift station bypass; Troubleshoot of automatic transfer switch; Sampling, lab / equipment calibration, and daily testing; Hurricane preparation; and Security protocols.

Construction Management Services for the C-43 Reservoir of the South Florida Management District (SFWMD) – QA Team Support – LaBelle, FL. Project under the Comprehensive Everglades Restoration Plan (CERP), which aims to restore the water resources of Central and South Florida. The reservoir is being built on a 10,500-acre parcel and it will have a water depth ranging from 15 to 25 feet. Construction management and inspection services are provided to include QA/QC of contractor's work, construction sequencing and schedule, field density tests for compaction control, daily testing reports and daily construction reports, installation of sheeting and bracing, participate during the substantial completion and final completion inspections, review all close out documentation (Operation Maintenance Manuals).

Owner’s Engineer Representation and Project Management Services for the Public Works Department of the City of North Miami, FL – Principal – City of North Miami, FL. Owner's Engineer Representation, Project Management, and Construction Management and Inspection services for the City's Capital Improvement Program which includes force mains, water mains, gravity system rehabilitation, sewer pump station rehabilitation, streetlight upgrades, septic to sewer conversions, sidewalk repairs, road resurfacing, traffic circles, street pedestrian bridge, and parking lots.

JAKE WILLIAMSON – Senior Construction Inspector / Safety Manager**TOTAL YEARS OF EXPERIENCE:** 16 Years**EDUCATION**

- Bachelor of Science Degree Grand Valley State University- Allendale, MI

Registrations/Certifications:

- OSHA 510 – Occupational Safety and Health Standards for the Construction Industry
- More than 25 Operator Qualifications with the US Department of Transportation from the Pipeline and Hazardous Materials Safety Administration
- US Navy Veteran, 1996-2000, Electrical Specialist -Expeditionary Medal, Sea Service Deployment, Battle “E” Ribbon, Navy Unit Commendation, Good Conduct Medal

EXPERIENCE PROFILE: Jake Williamson is experienced construction compliance specialist specializing in environmental, health, and safety. He has worked as an environmental and safety inspector and utility inspector for various pipeline projects. He holds various certifications, including OSHA 510, and has completed extensive safety training in a wide range of areas.

PROFESSIONAL EXPERIENCE**Construction Management and Inspection Services For Sewer Lining Of The Collection System Of The City Of Hialeah, Fl | Hialeah, Fl | 2023**

This project includes the inspection and oversight of sewer pipeline lining in the City of Hialeah to include over 100,000 LF of gravity sewer pipeline. Lining methods include Cured-In-Place-Pipe Lining and PVC liner. Jake is providing construction oversight and inspection to multiple crews to include over 15 workers. Jake also ensures that the contractors are following the project specifications, assigned work orders and quality requirements of the City of Hialeah.

Construction Management and Inspection Services For Multiple Capital Improvement Projects For The City Of North Miami, Fl |2023

Jake provided construction oversight and construction management services to the Public Works Departments to include new water and wastewater pipeline construction, wastewater pipeline rehabilitations (SSES, lining, dig and replace), roadway rehabilitation projects, streetlight improvement projects in close coordination with Florida Power Light.

Construction Management and Inspection Services For Transportation Projects For The Seminole Tribe Of Florida (STOF) | Brighton, Fl And Big Cypress, Fl | 2023

Jake provided construction oversight and construction management services to the Public Works Departments to include road rehabilitation projects, road resurfacing, construction of new roundabouts.

Utility Inspector | Teco / Magnolia River Tampa-Miami, Fl | Peoples Gas Distribution System | 2021-2023

During the main construction, service installation, and emergency leak repair phases, they ensured compliance with Company procedures and regulatory requirements. They were responsible for all aspects of construction, including safety, excavation, lowering in, welding, fusing, pressure testing, backfilling, and more. Additionally, they reviewed GIS (GPS/Cartopac) reports to maintain accuracy and efficiency in operations.

KARUNA WARREN – Senior Project Engineer**Education:**

- Bachelor's Degree in Civil Engineering with Environmental Specialty - Northwestern University
- Master's Degree in Engineering Management/ MBA - Florida International University

Registrations/Certifications:

- OSHA
- ARCSA (American Rainwater Association)
- Professional Engineering Design Association
- PMP
- Sig Sigma Green Belt
- Construction Management

EXPERIENCE PROFILE: With over 12 years of experience in project management, he excels in construction and civil engineering, specializing in designing and managing water-related infrastructure and multi-family home developments. He holds expertise in water regeneration, environmental sustainability, and efficient design, underpinned by certifications in areas like OSHA and ARCSA. His proficiency extends to planning and executing projects that encompass electrical transmission and distribution systems, roadway projects, and wastewater systems, ensuring they align with both engineering excellence and regulatory compliance.

PROFESSIONAL EXPERIENCE:**PROGRAM MANAGEMENT AND GRANT MANAGEMENT SERVICES FOR ROADWAY AND STORMWATER IMPROVEMENTS FOR THE NORTH BAY VILLAGE – PROJECT MANAGER/ENGINEER – NORTH BAY VILLAGE, FL 2023-2024**

This program includes the implementation of projects of a Capital Improvement Plan which includes drainage improvements, new outfalls, several stormwater pump stations, roadway rehabilitations, traffic calming projects, among many others. Also, Karuna led the development of several Grant applications with federal agencies for securing funds for the Village in support of their CIP – over \$25 million of grant applications were developed and submitted for the Village.

SENIOR PROJECT ENGINEER | DRAINAGE IMPROVEMENT PROJECT | 2023 – PRESENT

A study is being conducted with the Senior Civil Engineer of the STOF's Public Works Department with the purpose of overall improvement of drainage throughout the whole Big Cypress Reservation. This study includes the evaluation of current maps of the area with the combination of field visits to properly assess improvement opportunities, also to establish standards and BMPs for repairs for erosion control.

CEO/ FOUNDER | THIRD WORLD COUNTRY NON-PROFIT PROJECT | 2016-2023

Focusing on Water Regeneration, Environmental sustainability, Waste water systems, ecological conservation, resource management, water filtration methods, renewable energy, conscious business management, holistic village utilities, distribution methods, and reduction in single use plastics.

PROJECT ENGINEER | SEPTIC TO SEWER CONVERSION (ALBUQUERQUE, NM) | 2014 - 2015

Project Engineer- Private septic / leach fields to public sewer connection tie-ins for 100+ properties for environmental resilience. Project engineer in charge of public outreach and project planning, Design and permitting and construction management. Project budget \$500,000.

MEGI RUSI, PhD, PG - Senior Geologist / Construction Inspector

TOTAL YEARS OF EXPERIENCE: 14 Years

EDUCATION

- Doctor of Philosophy (Ph.D.) Polytechnic University of Tirana, Albania, 2016. Field: Geoscience, Natural Resources and Environment.
- Master of Science (M.Sc.) Polytechnic University of Tirana, Albania, 2010. Field: Geological Engineering and Hydrogeology.
- Bachelor of Science (B.Sc. Hon.) Polytechnic University of Tirana, Albania, 2008.

EXPERIENCE PROFILE: Construction Professional, Project Engineering Geologist, Engineering Geologist, and Project Engineer for various civil infrastructure and water supply projects. Megi's responsibilities have included geological and geotechnical mapping, site supervision, drilling and sampling materials for testing, report preparation and construction supervision. Comprehensive experience with geological and geotechnical field-based investigations for feasibility studies and project execution Extensive experience in geotechnical assessments for civil infrastructure construction projects – roads, buildings, tunnels, dams, water supply, landfills.

WORK EXPERIENCE

SENIOR CONSTRUCTION INSPECTOR | CONSTRUCTION MANAGEMENT SERVICES FOR THE C-43 RESERVOIR OF THE SOUTH FLORIDA MANAGEMENT DISTRICT (SFWMD) | LABELLE, FL | 2023

Project under the Comprehensive Everglades Restoration Plan (CERP), which aims to restore the water resources of Central and South Florida. The reservoir is being built on a 10,500-acre parcel and it will have a water depth ranging from 15 to 25 feet. Construction management and inspection services are provided to include QA/QC of contractor's work, construction sequencing and schedule, field density tests for compaction control, daily testing reports and daily construction reports, installation of sheeting and bracing, participate during the substantial completion and final completion inspections, review all close out documentation (i.e. Operation Maintenance (O&M) Manuals). She conducts site inspections of the soil bentonite wall, dam embankment, material placements, rip rap systems, assuring the quality of materials used and that the works are performed according to the project specifications and work plans.

DEVOLL HYDROPOWER PROJECT, HYDROPOWER CIVIL WORKS, ACCESS ROADS AND TRANSMISSION LINES – ENGINEERING GEOLOGIST - ALBANIA | 2017-2019

Day to day supervision of construction works on site ensuring all works conforms to required standards, Technical Specifications and Health and Safety measurements. Mapping and analyzing slope excavations in rock and soil and foundations surfaces, and prepare recommendations and reports for stability of slopes, or improvements to foundations to support the construction of the project. Preparing and checking Method of Statements, checking drawings and interpret properly for the works, review and check calculations of quantities for interim payment certificates. Writing reports, memos, instructions, technical queries, managing all geological documents in the document control system. Identifying landslide areas and analyzing solutions for the road alignment, ensuring that the project quality control procedures are used for the roads supervision works and monitoring them for improvement. Solving different geological technical issues as they rose like classification of excavated material, sampling soil and rock material for different testing, kinematic analyses with DIPS and Swedge, etc.

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CERTIFICATIONS

- CTQP Final Estimates Level I (Pending)
- CTQP Concrete Field Technician Level I (Pending)
- CTQP Concrete Field Inspector Level II (Pending)
- CTQP Asphalt Roadway Level I
- CTQP Asphalt Roadway Level II
- CTQP Earthwork Construction Inspection Level I
- CTQP Earthwork Construction Inspection Level II
- CTQP Pile Driving Inspection
- CTQP Drilled Shaft Inspection (Pending)
- FDOT Intermediate MOT (Pending)
- IMSA Traffic Signal Inspector Level I (Pending)
- Nuclear Radiation Safety (Pending)
- Florida Stormwater, Erosion and Sedimentation Control Training & Certification Program for Inspectors & Contractors (Pending)

21 YEARS OF EXPERIENCE

Giovanni Rose is a quality assurance specialist with 21 years of experience, including 14 years in construction engineering and inspection for transportation-related projects, including roadways, bridges, drainage, buildings, utilities, communications and specialized structures such as noise walls and cathodic protection. He also has been active in quality control materials testing.

PROJECT EXPERIENCE**Hillsborough County Aviation Authority | Tampa Airport Main Terminal Curbside Expansion and Central Energy Plant | Tampa, FL | 2019 – Current**

QC Roadway Lead for CMTS' portion of this \$250M design-build project at Tampa International Airport. This program includes the expansion of the curbsides, incorporating new elevated and at-grade lanes and vertical circulation buildings for both the Blue and Red sides, providing a means for passengers to access the Main Terminal via elevators and escalators from the new lanes. Giovanni's responsibilities include interfacing directly with the Owner's Quality Assurance on all quality-related issues. He is responsible for ensuring the subtrades are installing their specific scope of services per the specifications, standards and code requirements for all disciplines. Giovanni submits field inspection to verify work complies with the project specifications and applicable codes. Premobilization meetings are held with each subcontractor prior to beginning work to review the quality control plan and to ensure that subcontractor project management teams are committed to the QC plan. During initial inspection, which follows the preparatory meeting, the foreman is authorized to install one representative sample of the work, which must be inspected and approved before subsequent work can continue. Follow-up Inspections occur every two to four weeks once work has begun. Final inspection occurs at the conclusion of each definable feature of work to verify that any deficiencies have been resolved.

Florida Department of Transportation (FDOT) | District 5, Sand Lake Road | Orlando, FL | 2016 – 2019

Senior Inspector for this \$81M project, which involved the widening and reconstruction of two miles of State Road (S.R.) 482 (Sand Lake Road) from west of I-4 (SR-200) to west of County Road 423 (John Young Parkway). This project included the addition of new lanes, milling and resurfacing, new asphalt pavement, new concrete pavement, concrete sidewalks, storm drainage system, cantilever guide signs, signage, pavement markings, traffic signals, sanitary sewer, the demolition and reconstruction of the bridge over Shingle Creek, new bike trails at the elevated Shingle Creek bridge, and a bridge widening of the S.R. 435 (Kirkman Road) Overpass.

FDOT | Districts 1,3,5 & 7 (Various Projects) | (Various Locations) FL | 2013 – 2016

Senior Inspector for the following projects:

- **Sunshine Skyway Bridge Repair** -- Corrosion mitigation, cathodic protection, bearing replacement on main spans, clean and coat existing bearings.
- **Bunces Pass Bridge Repair** -- AASHTO beam repairs and metalizing and cathodic protection.

PCI STORMWATER SOLUTIONS, INC.

KYLE HERBERT | General Manger | Estimator and Inspector



Mr. Herbert is a storm water inspector for PCI Stormwater Solutions Inc., Offering, on-site inspection for stormwater drainage systems and field reports. In addition, Mr. Herbert has extensive experience providing quality storm drain cleaning and maintenance.

EDUCATION

Florida Atlantic University
Broward College

YEARS OF EXPERIENCE

10 years

EXPERIENCE

- Storm Drain Cleaning
- Onsite Storm Drain System Inspections.
- Repairing And Maintaining Catch Basins, All Drainage Pipes, Headwalls, Culverts, Weirs And Weir Plates, Pollution Retardant Baffles
- Injection Well Cleaning
- All Sewer Lines, Manholes, And Lift Station
- Video Inspections, Root Cutting, Pipe Lining, And Pipe Bursting.
- De-Mucking and Regrading Of Retention Areas

PROJECT EXPERIENCE

FLL BCF-170 BROWARD COUNTY REHAB NORTH AIRFIELD

Scope of work: Desilting and CCTV inspection of Stormwater Pipe. Laser Pipe Profiling and Joint Measurement Optional

FLL T4 AIRSIDE

Scope of work: Plugging, Dewatering, Desilting and CCTV Inspection. During the project we identified the problem as a Mudplug that had not been removed. PCI removed the plug and repair the structures with Hydraulic cement.

FLL CELL PHONE WAITING AREA

Scope of work: Plugging, Dewatering, Desilting and CCTV Inspection of various storm drain pipe to determine and resolve the drainage problems in the area. Large quantities of silt were removed as well as the discovery of flowable fill tEhat had been disposed of in the drainage system. This was removed via Hydro Jetting and Cutting Tools.

PCI License: CFC1427168

Licenses

LICENSEE DETAILS

Licensee Information

Name: KEITH AND ASSOCIATES, INC. (Primary Name)
 Main Address: 301 EAST ATLANTIC BOULEVARD
 POMPAHO BEACH Florida 33060
 County: BROWARD

License Information

License Type: Engineering Business Registry
 Rank: Registry
 License Number: 7928
 Status: Current
 License Date: 04/03/1998
 Expires:

STATE OF FLORIDA

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

LAZOWICK, ALEXANDER SCOTT
 301 EAST ATLANTIC BLVD
 POMPAHO BEACH FL 33060

LICENSE NUMBER: PE7928
 EXPIRATION DATE: FEBRUARY 28, 2025
 Always verify license online at MyFloridaLicense.com

STATE OF FLORIDA

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

VAUGHN, DAVID DWAYNE
 2905 S. OCEAN BLVD
 FORT PIERCE FL 34949

LICENSE NUMBER: PE6721
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA

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GREEN, THOMAS S.
 1256 NE 28TH TERRACE
 POMPAHO BEACH FL 33062

LICENSE NUMBER: PE1763
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS
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DONAHUE, THOMAS F.
 5637 E. CLARKIA BLVD
 DELRAY BEACH FL 33446

LICENSE NUMBER: PE6057
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS
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WARRICK, NILES THOMAS
 3331 COCONUT CBL
 COCONUT CREEK FL 33066

LICENSE NUMBER: PE1600
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS
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WEYMOUTH, JONATHAN PATRICK
 3416 NE 23RD COURT
 FORT LAUDERDALE FL 33304

LICENSE NUMBER: PE3802
 EXPIRATION DATE: FEBRUARY 28, 2025
 Always verify license online at MyFloridaLicense.com

ASI AMERICAN STORMWATER INSTITUTE, LLC

THIS CERTIFIES THAT

Jonathan Weymouth

HAS SUCCESSFULLY COMPLETED THE TRAINING REQUIREMENTS AND IS HEREBY RECOGNIZED AS A **QUALIFIED FLORIDA CONSTRUCTION STORMWATER INSPECTOR**

The person identified above has been awarded 1.8 CEUs

ASSOCIATION OF STATE FLOODPLAIN MANAGERS, INC.

CERTIFICATION BOARD OF REGENTS

Niles T. Warrick, CFM

ASFPFM CERTIFIED FLOODPLAIN MANAGER

KEITH AND ASSOCIATES INC
 301 EAST ATLANTIC BLVD, POMPAHO BEACH, FL 33060-6543
 Phone: 561-785-3400

Licensee	Issued	Expires	Status
Surveyor Business	L56050	03/27/98	Active
Surveyor of Record	L34185	06/29/84	Active

STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE PLUMBING CONTRACTORS HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CAMPBELL, CHRISTOPHER PATRICK
 PROFESSIONAL PLUMBING CONTRACTOR INC.
 4715 W. 90TH AVE
 SUITE 100
 FL 33057

LICENSE NUMBER: CEK41411
 EXPIRATION DATE: AUGUST 31, 2024
 Always verify license online at MyFloridaLicense.com

CERTIFICATE OF COMPLETION

PROFICIENCY PRESENTED TO

Aren Warner

Certification Number: P003558-01002 Expiration Date: 01/31/2025

Shela J. Joffe, Executive Director

SAMUEL THOMAS HALL
 34802 VALLEY HILL LN, EUSTIS, FL 32736-0206

Licensee	Issued	Expires
Surveyor and Mapper	L56544	02/15/08
		02/28/25

CERTIFICATE OF COMPLETION

PROFICIENCY PRESENTED TO

Jeff Atherton

Certification Number: P044334-07023 Expiration Date: 10/31/2025

Shela J. Joffe, Executive Director

CERTIFICATE OF COMPLETION

PROFICIENCY PRESENTED TO

Mitchell Savitski

Certification Number: P044897-09023 Expiration Date: 06/30/2026

Shela J. Joffe, Executive Director

iAM The Institute of Asset Management

Certificate in Asset Management

This is to certify that **Anthony Dowell**

IAM Registration Number: 6123684

was awarded the Institute of Asset Management Certificate in Asset Management having achieved the pass mark by examination on 1st March 2021

Steve Wilson, F.P.M., MBA, FIAM
 Evelyn Bryson, FIAM

PACP | LACP | MACP Version 7.0.4

CERTIFICATE OF COMPLETION

PROFICIENCY PRESENTED TO

Magdala Michel

Certification Number: P044810-03021 Expiration Date: 07/31/2025

Shela J. Joffe, Executive Director

Department of Business and Professional Regulation

ONLINE SERVICES

Apply for a License
 Verify a License
 View Fee & Lending Information
 Fee & Complaint
 Continuing Education Course Search
 View Applicant Status
 Paid Exam Information
 Unlicensed Activity Search
 ASST Delinquency Invoice & Activity List Search

Licensee: **OMTS CONSTRUCTION MANAGEMENT SERVICES, LLC**
 License Number: 29420
 Rank: **Registry**
 Primary Status: **Current**
 Original License Date: 03/14/2011

Related License Information

License Number	Status	Related Party	Relationship	Effective Date	Rank	Expiration Date
19893	Current	ARMAD, EJAZ	Registry	02/17/2011	Professional Engineer	02/28/2025

STATE OF FLORIDA

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

HERRERA, OMAR J.
 8015 NW 47TH STREET, SUITE 400
 AVENTURA FL 33180

LICENSE NUMBER: PE8907
 EXPIRATION DATE: FEBRUARY 28, 2025
 Always verify license online at MyFloridaLicense.com

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A photograph of three people—two women and one man—gathered around a large table in a modern office or design studio. They are looking at and pointing to various sheets of paper, likely architectural blueprints or design plans. The man, wearing glasses and a checkered shirt, is in the center. The woman on the left is wearing a striped shirt, and the woman on the right is wearing a dark sweater. The background features a large window with a view of greenery and a wooden structure with horizontal slats. The overall atmosphere is professional and collaborative.

4.2.5 APPROACH TO SCOPE OF WORK

CITY'S STATEMENT OF NEED

The City of Fort Lauderdale is embarking on a comprehensive stormwater infrastructure project, and the KEITH Team stands ready to address its multifaceted needs. With a track record of excellence in asset inventory, data collection, and condition assessment, our team offers a unique blend of expertise, resources, and global reach to support the city's objectives.

Our experience extends beyond mere data collection; we have actively contributed to the development of GIS-based applications critical to the city's stormwater management efforts. This intimate involvement positions us as more than just service providers but as strategic partners deeply familiar with the city's data landscape, standards, and technological requirements. This ensures a seamless integration into existing systems, providing the city with a Day 1 advantage and a high-performing team dedicated to its success.

The KEITH Team comprises local stormwater engineering, condition assessment, GIS, and asset management professionals with an intimate understanding of Fort Lauderdale's infrastructure, systems, standards, and processes. This local expertise, combined with our global network of experts, enables us to deliver tailored solutions that drive efficiency, reduce costs, and optimize project outcomes. In choosing the KEITH Team, the City gains more than just a service provider; it gains a trusted partner committed to delivering results, saving both time and resources. Our proven track record, combined with our detailed knowledge of the city's needs, ensures that we hit the ground running, delivering value from day one and contributing to the city's continued success in stormwater management.

Data Collection through Field Inspections

The City of Fort Lauderdale's stormwater infrastructure project necessitates a comprehensive and accurate inventory of its existing assets, and the KEITH Team is poised to deliver. Our approach to data collection encompasses not only the gathering of asset information but also its enhancement and validation, ensuring the reliability and completeness of the city's asset inventories.

Our team of experts will assist in the meticulous collection and verification of asset data, including operational and lifecycle status, fixed asset attributes, and connectivity/configuration details. Leveraging our extensive experience in large-scale data collection efforts, we combine a deep working knowledge of stormwater systems with industry-standard practices to ensure the integrity and accuracy of the collected data. We utilize state-of-the-art handheld, ruggedized tablets running on current Android or Apple iOS operating systems, equipped with mobile technologies from the Esri suite of software, including Field Maps and Survey123. This enables seamless integration with the City's ArcGIS Online and/or Portal environment, streamlining data collection processes and enhancing data quality. Furthermore, to enhance the precision of our data collection efforts, we employ GPS technology utilizing external GNSS receivers paired with our tablets via Bluetooth. This allows us to capture horizontal and vertical location data with exceptional accuracy, ensuring that asset information is geospatially referenced and readily accessible for analysis and decision-making.

STORMWATER STRUCTURE INSPECTION APPROACH

- 1 Locate and open structure as required. Document structure that cannot be easily opened, accessed or located as "Cannot Open" (CNO), "Cannot Access" (CNA) or "Cannot Locate" (CNL) manholes, and provide details on any other access issues or concerns.
- 2 Conduct top-side, internal structure inspection compliant with City of Fort Lauderdale structure inspection procedures (based on structure type) and/or NASSCO's MACP standards, procedures and MASSCO's MACP.
- 3 Record data within City managed Esri Field Maps and/or Survey123 applications via tablet.
- 4 Capture, record, and report external features, such as an area description, accessibility, and other features required to populate the provided application(s). Update horizontal location (and vertical, as necessary) utilizing GPS/GNSS receiver within existing City accuracy standards.
- 5 Identify and document all exposed structures and pipes, structures in imminent danger of failure, and indications of surcharge, overflows and/or exfiltration. All emergencies will be reported to City of Fort Lauderdale Contract/Project Manager and emergency call-in number (954-828-8000) as soon as they are discovered.
- 6 Capture, record, and report the internal condition of the structure and all observed defects.
- 7 Video lamp capture the condition of all incoming and outgoing pipes, including grease, debris, sags, roots, sources of I/I, and structural defects observed from the manhole.
- 8 Conduct comprehensive database QA/QC for inspection data, connectivity and location (GPS) review, checks and overall database maintenance prior to data submission.

DELIVERABLES

- ✓ Video index/catalog so City is able to easily identify an inspection location.
- ✓ Submit monthly (or weekly as requested) status of structure inspections completed, structure requiring follow up, and structures designated as CNO, CNL, and CNA with corresponding pictures used to verify the status.
- ✓ Submit final inspection data and media (via ArcGIS Online).
- ✓ Submit monthly, quarterly and annual reports in City-standard format.

In addition to above-ground assets, the KEITH Team specializes in confined space and underground inspections, utilizing specialized systems such as the Flyability Elios and Skydio X2E airframes. These cutting-edge technologies are designed to operate in GPS-denied environments, enabling us to conduct inspections in challenging locations with unparalleled precision and safety. Our track record of successfully completing inspections in water, wastewater, and stormwater systems underscores our expertise and commitment to delivering comprehensive data collection solutions tailored to the City's needs.

Condition Assessment through CCTV

The KEITH Team boasts extensive expertise in conducting comprehensive condition assessments of various stormwater structures and linear assets critical to the City of Fort Lauderdale's infrastructure. Our proficiency extends to a wide range of assets, including manholes, inlets, catch basins, outfalls, discharge points, and network structures. With a team of NASSCO-certified inspection staff and dedicated data quality reviewers, we ensure that our assessments adhere to both City of Fort Lauderdale data standards and industry best practices.

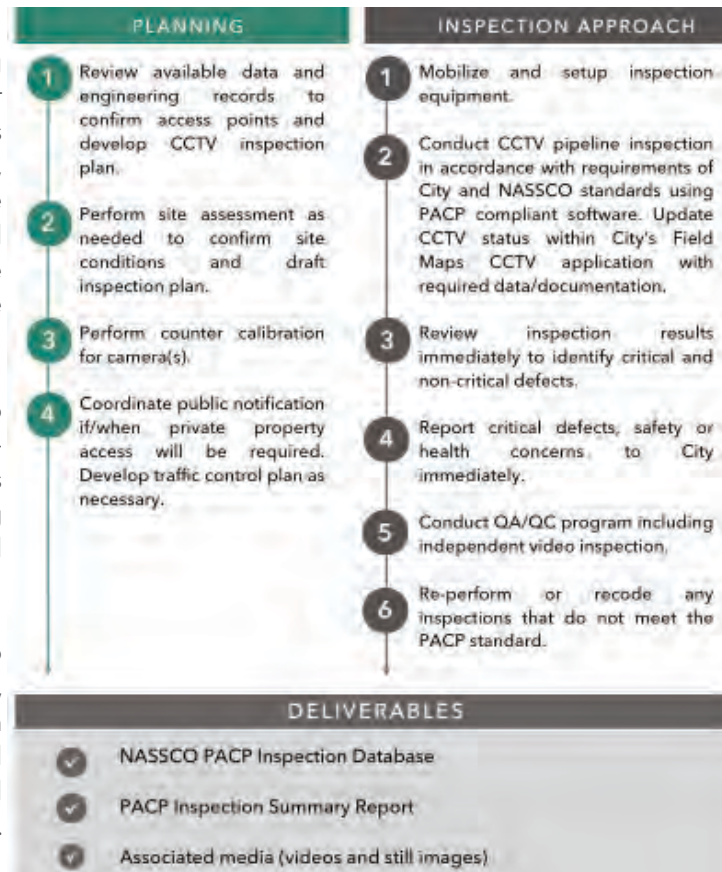
Over the past decade, the KEITH Team has conducted over two million linear feet of stormwater pipe inspections using Closed-Circuit Television (CCTV) technology. Our experience spans pipes ranging from 6 to 102 inches in diameter, demonstrating our capability to handle projects of varying scales and complexities.

All CCTV inspections conducted under our contract adhere to the Pipeline Assessment Certification Program (PACP) standards, guaranteeing consistency and accuracy in defect identification and notation. Our PACP-certified inspectors meticulously record inspections in color video format, utilizing software equipped with the PACP coding system to document defect classifications.

To ensure the timely identification and resolution of critical defects, our project team conducts immediate reviews of inspection results. Critical defects, requiring immediate attention or corrective action, are swiftly identified, and communicated to City staff, emphasizing the importance of maintaining open lines of communication throughout the assessment process.

Moreover, our commitment to quality assurance and quality control (QA/QC) is paramount. We employ a rigorous QA/QC program that prioritizes independent video inspection by our project team. Any inspections failing to meet PACP standards are promptly rejected and either re-performed or re-coded to ensure compliance. To streamline the review and acceptance process of CCTV submittals, we centralize submissions in a web-based database equipped with automated queries. These queries efficiently identify common database errors, such as connectivity mistakes, facilitating expedited correction and validation of data. Our proactive approach to QA/QC minimizes delays and ensures the delivery of accurate, high-quality data to the City of Fort Lauderdale.

In summary, our comprehensive approach to asset condition assessment through CCTV combines technical expertise, adherence to industry standards, and a commitment to quality assurance. By leveraging advanced technologies and meticulous quality control measures, the KEITH Team ensures the integrity and reliability of stormwater infrastructure data critical to the City's operations and maintenance strategies.



of stormwater infrastructure to verify compliance with project specifications and regulatory requirements. Our CEI team will be responsible for conducting comprehensive inspections of stormwater structures, including manholes, conflict structures, basins, and tidal valves, to assess conditions and identify potential issues. We will review construction plans and specifications to ensure alignment with project objectives and regulatory standards, documenting construction activities and materials used. In the event of any deviations from approved plans, our team will promptly address them, providing technical guidance and support to construction contractors as needed.

Throughout the construction phase, our team will prioritize safety, quality, and environmental responsibility. We will conduct regular site inspections to verify adherence to quality standards and regulatory requirements, providing ongoing support and guidance to construction contractors to ensure the timely completion of construction activities while upholding the highest standards of quality, safety, and environmental stewardship.

QA/QC Approach

Quality isn't just a standard for the KEITH Team; it's ingrained in our culture and reflected in every aspect of our work. Our commitment to quality follows rigorous standards, reflecting our adherence to the ISO 9001 quality management system. As a professional services firm dedicated to excellence, we continuously refine and improve our quality processes to ensure that our clients receive nothing but the best.

What does this mean for our clients? It means they can trust in the reliability and consistency of our services, knowing that we adhere to a comprehensive set of quality practices across all our projects. It means that quality is not just a buzzword for us; it's a fundamental principle that guides everything we do.



Initiating Quality: Quality begins with a thorough understanding of our clients project goals and objectives. We prioritize communication and collaboration, ensuring that our team is aligned with the City of Fort Lauderdale's expectations from the outset. By assigning technically qualified personnel and establishing clear project plans, we set the stage for success.

Producing Quality: Our approach to delivering quality is multifaceted and comprehensive. We develop detailed project plans that outline key parameters and guide our team's efforts. Throughout the project lifecycle, we maintain close coordination among disciplines to ensure efficiency and consistency in our work.

Confirming Quality: Formal checking and review processes are integral to our quality management system. We designate a dedicated Quality Assurance/Quality Control (QA/QC) manager to oversee the review of all inspection data and manage QMS elements during project execution. Quality checking activities are documented and undergo two-level approvals to ensure accuracy and completeness.

Delivering Quality: Before any deliverable is submitted, it undergoes a final verification check to ensure completeness, consistency, and adherence to quality requirements. Our lead verifier evaluates each deliverable meticulously, signing off on a Technical Quality Review Record before submission. This final independent evaluation reinforces our commitment to delivering exceptional quality to our clients.

Improving Quality: Continuous improvement is at the heart of our quality program. We leverage lessons learned from past experiences to enhance our processes and deliver even greater value to our clients. By prioritizing client satisfaction and tracking progress meticulously, we ensure that every project with the KEITH Team is a testament to our commitment to excellence.

KEITH TEAM CAPACITY

As the Principal-in-Charge, Alex Lazowick, PE, PMP, ENV SP, will ensure that adequate office and field personnel are available as needed for this important contract. Dwayne Vaughn, PE, will serve as the Program Manager for the entire duration of this contract and understands the importance of his commitment to project success. He is responsible for coordinating and managing all sub-consultant partners, as well as KEITH staff assigned to the projects. 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 each assignment, coordinating with each task manager to ensure the highest quality project in the most responsive and timely manner.

Given our current and projected workloads for the staff proposed herein, KEITH can and will provide the personnel and resources required to fulfill this contract. KEITH manages its long and short-term workload fluctuations through a policy of proactive management and resource/personnel sharing. Our diverse staff has made the commitment of their time and energy to meet the schedule requirements of similar contracts in the past and is committed to providing unparalleled service to this contract. Delays are contained and minimized through routine weekly department/project meetings aimed at maximizing project scheduling effectiveness.

Our staff routinely operates on extended and modified work schedules allowing for expedited project executions and absorption of unforeseen schedule challenges. We carefully monitor our staff's hours, which allows us to properly plan for additional staffing requirements. This senior management oversight and weekly interaction ensures that delivery and project communication remain with the utmost priority within the firm. We look forward to continuing to service the City of Fort Lauderdale as your trusted civil engineers.

WHY KEITH

In conclusion, the KEITH Team offers a comprehensive and innovative approach to addressing the City of Fort Lauderdale's stormwater infrastructure project. With our extensive experience, advanced technologies, and dedication to excellence, we are uniquely positioned to deliver exceptional results. Our proven track record in asset inventory, data collection, and condition assessment, coupled with our deep understanding of the city's infrastructure and processes, ensures seamless integration and immediate impact from day one. By leveraging cutting-edge technologies such as AI-driven inspection tools like Pipelnsight, we streamline processes, enhance accuracy, and drive efficiency, ultimately saving time and resources while delivering superior outcomes.

Moreover, our commitment to quality assurance, compliance with industry standards, and proactive communication ensures that projects are executed with precision and transparency, meeting the city's objectives and exceeding expectations. With the KEITH Team at the helm, the City of Fort Lauderdale can trust in our expertise, dedication, and innovative solutions to navigate the complexities of its stormwater infrastructure project successfully. We are confident that our collaborative approach, technical proficiency, and unwavering commitment to excellence make us the ideal partner for this critical undertaking.



CAM# 24-0696
Exhibit 3
Page 57 of 78

A man in a light blue button-down shirt and dark trousers is shaking hands with a woman in a dark blue lace dress. They are standing in front of a window with horizontal blinds. The man is smiling and looking at the woman. The woman is looking at the man. The scene is lit with warm, indoor lighting.

4.2.6 REFERENCES



Name of Agency: City of Parkland
Agency Contact Name: Alex Barr, City Engineer
Project Address/Location: Parkland, FL
Contact Telephone Number: (954) 757-4184
Email Address: ABarr@CityOfParkland.org
Name of Project/Contract: Parkland Citywide Stormwater Master Plan
Project/Contract Description: KEITH was successfully retained to provide a comprehensive range of engineering services for the development of a Citywide Stormwater Master Plan for the City. The completion of this project marks a significant milestone in the city's efforts to manage stormwater effectively and ensure the long-term sustainability of its infrastructure.
Project/Contract Start Date: 2020
Project/Contract Completion Date: 2022
Fee: \$203,000.00



Name of Agency: Town of Surfside
Agency Contact Name: Hector Gomez, Town Manager
Project Address/Location: Surfside, FL
Contact Telephone Number: (305) 861-4863
Email Address: hgomez@townofsurfsidefl.gov
Name of Project/Contract: Town of Surfside Continuing Professional Engineering Services
Project/Contract Description: NPDES MS-4 Monitoring and Reporting: Our services include Stormwater Regulatory Monitoring and Compliance Reporting to the Florida Department of Environmental Protection (FDEP) on behalf of the Town for NPDES (National Pollutant Discharge Elimination Systems) program.
Project/Contract Start Date: 2021
Project/Contract Completion Date: 2022
Fee: \$24,000



Name of Agency: Broward County Aviation Department
Agency Contact Name: Carlos Hernandez, Project Management Supervisor
Project Address/Location: Broward County, FL
Contact Telephone Number: (954) 359-1025
E-mail Address: cahernandez@broward.org
Name of Project/Contract: BCAD Continuing Services Contract
Project/Contract Description: KEITH has been providing professional services for utilities through our continuing services contract, including various drainage designs. With a goal of capitalizing on its opportunities for further growth, BCAD desires to maximize the areas within FLL that can be utilized for expansion. KEITH has assisted with notable stormwater projects under this specific goal.
Project/Contract Start Date: 2015
Project/Contract Completion Date: Ongoing
Fee: Varies per work order



Name of Agency: International Swimming Hall of Fame
Agency Contact Name: Laura Voet, Aquatic Complex Manager
Project Address/Location: Fort Lauderdale, FL
Contact Telephone Number: (954) 828.4582
Email Address: lvoet@fortlauderdale.gov
Name of Project/Contract: International Swimming Hall of Fame Development
Project/Contract Description: KEITH is providing services to the Client including construction program management, civil and traffic engineering, planning, survey/SUE, and landscape architecture.
Project/Contract Start Date: 2022
Project/Contract Completion Date: Ongoing
Fee: \$326,035.00

Engineer
Inspired
Design.

4.2.7 MINORITY/ WOMEN PARTICIPATION

MINORITY PARTICIPATION

To this day, KEITH remains a majority woman-owned business. We understand the importance of working with and supporting Small Business Enterprises (SBE) and Minority/Women Business Enterprises (M/WBE). Supplier diversity makes for good business practices by providing opportunities for an inclusive procurement environment, recognizing the immense value in Small, Minority, and Women Business Enterprises.

At KEITH, we are grateful for the opportunities that have been provided to our firm by being certified in many programs over the years. Because of these programs, KEITH was able to grow in both size and revenue, allowing us the pleasure to graduate out of the programs and provide the same opportunity to other SBE and M/WBE firms. KEITH previously held SBE and M/WBE Certifications with the following:

- State of Florida
- Broward County
- Miami-Dade County Public Schools
- Palm Beach County Public Schools
- Broward College
- Broward County Public Schools
- Broward Health
- FDOT
- Miami-Dade County
- Palm Beach County
- City of West Palm Beach - currently hold certification
- City of Tampa - currently hold certification

Owner and CEO, Dodie Keith-Lazowick, PLS, sits on a variety of committees dedicated to upholding the importance of such efforts. These committees include the Broward County Economic and Small Business Development Advisory Board, and the School Board of Broward County Minority and Diversity Participation Advisory Committee.

Dodie is also committed to continue supporting and mentoring fellow local SBE M/WBE engineering firms. KEITH has also begun the process of becoming certified with the Women’s Business Enterprise National Council (WBENC) and the National Association of Women Business Owners. We look forward to celebrating our national certifications once the process is complete.





4.2.8 SUB-CONSULTANTS

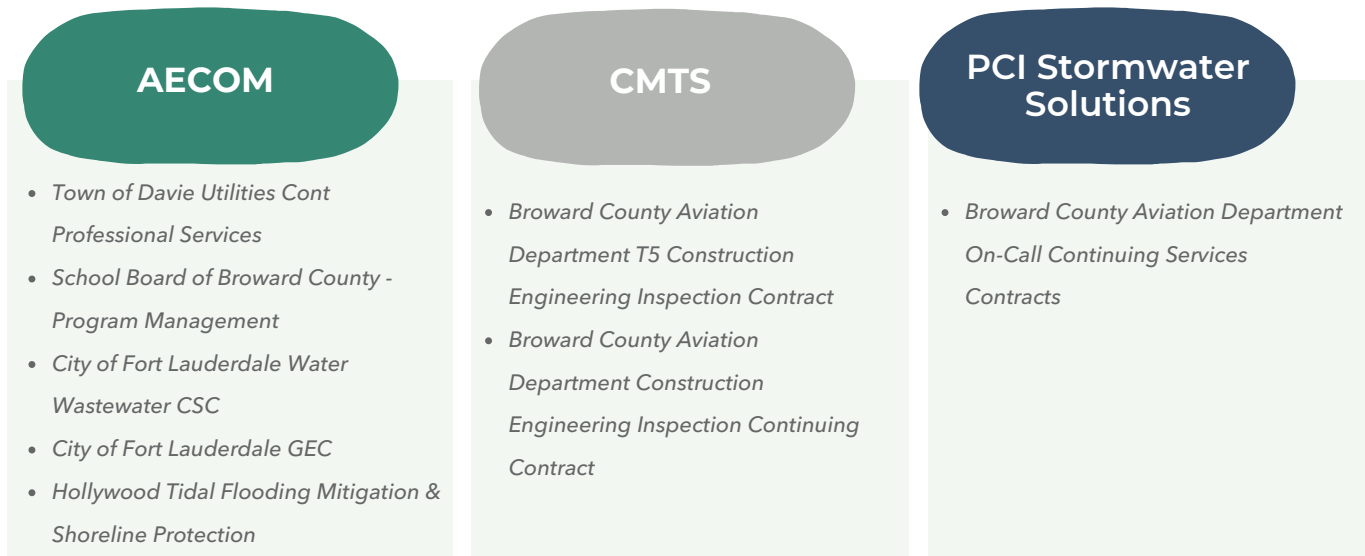
WORKING RELATIONSHIPS

At KEITH, our teaming partners are carefully selected for the understanding that it is essential for any contract for the City of Fort Lauderdale to succeed. We understand the combined skills, experiences and ideas of multiple people produce a better result in the end. A team that works well together can also help to improve communication and increase contract productivity. By building strong teaming relationships, the KEITH Team can create a supportive and collaborative environment that fosters creativity and innovation. Here are some key areas that we look for when selecting our teaming partners:

- Firm compatibility - culturally the same - morals and values
- Complementary services and experience - projects of similar nature
- Market position and reputation similarities
- Common core values
- Reciprocal relationship - give and take
- Financial stability of each firm
- Style diversity - different backgrounds, different ideas with same common goal
- Open communication style with clear purpose and direction

As a testament to our commitment to collaboration, together synergies have won us key continuing services contracts. Our subconsultants' expertise, seamlessly interwoven with our own, has not only elevated the quality of our deliverables but has also amplified the impact of our services on our clients' projects.

TEAM COLLABORATION CHART



PROPOSED SUBCONSULTANTS

AECOM Services: Deputy Program Management | Condition Assessment | Asset Management | GIS/Database Management | Construction Engineering Inspections | Civil Support
AECOM Technical Services, Inc. (AECOM), one of the nation's premier engineering, design, environmental and planning firms, combines technical expertise and creative excellence to provide fully integrated solutions. Their adaptable and flexible approach to projects deliver consistency, longevity, high-quality, and cost and time efficiency. AECOM's official founding was in 1990 with some of their legacy firms having distinguished histories dating back more than a century. Since then, more than 50 companies have joined AECOM. Today, listed at #189 on the Fortune 500 as one of America's largest companies, AECOM is the world's premier infrastructure firm with an unrivaled heritage. AECOM was proud to be recognized in 2021 as the #1 design firm in Florida and the #2 design firm overall by the Engineering News-Record (ENR) in their annual top 500 design firm rankings.

The work will be performed from their local Fort Lauderdale office location. Their local staff includes many senior level engineers ready to support this assignment, as well as additional staff located throughout Florida, and the nation, available to assist. Their project management and lead engineering professionals will be in the Fort Lauderdale office to meet the City's critical needs. With nearly 240 professionals in South Florida and nearly 1,100 professionals throughout Florida, AECOM has the full capability and depth of resources to meet the City's needs under this contract. This depth of resources demonstrates their ability to assume certain lead roles where their expertise is particularly relevant or if the need arises, to absorb an expedited schedule.

THE ENGINEERING COMPANY

Services: Construction Engineering Inspections

The Engineering Company (TEC) specializes in delivering engineering, project management and construction management and inspection services for civil infrastructure projects to include projects with stormwater networks, gravity pipelines, pump stations, and drainage structures. TEC has construction professionals, engineers, and geologists with project experience on Local, State and Federal projects. Project experience in the State of Florida include working in water infrastructure, facilities, transportation, reservoirs, embankments, drilling explorations, structures, and many other project features. TEC is providing engineering, project management and inspection services for multiple government entities in South Florida; this work includes project management, site investigations and inspections shifts during the day and night, inspection of material testing, and drilling activities coordination with engineers of record and contractors. Additionally, some of TEC's notable experience include providing engineering, quality assurance, project management and inspection services for Public Works of municipal agencies in Florida such as City of North Miami, North Bay Village, Seminole Tribe of Florida, as well as State and Federal agencies such as the South Florida Water Management District and the Federal Emergency Management Agency (FEMA).



Integrity | Accountability | Professionalism

Services: Construction Engineering Inspection support

CMTS provides program, project, and construction management, quality management and inspection, owner's representative, and emergency management services. Its core markets include public works, infrastructure, aviation, transportation, transit, water/wastewater, healthcare, education, arts, and sports & recreational facilities. The company was founded in 1984 as CMTS, Inc. in Denver, CO and has managed more than \$42B in construction, including \$8B in infrastructure projects. The company moved its headquarters to Dallas, TX in 2000, and became CMTS LLC in 2010. It has grown to more than 100 employees in offices and projects across 12 states and the US Virgin Islands. CMTS has provided water/wastewater professional services for public clients across the country, including the City of Fort Lauderdale, City of Jacksonville, City of Tallahassee, and Orange County.



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KEITH
Engineering Inspired Design.

HOTEL

KEITH
Engineering Inspired Design.

4.2.9 REQUIRED FORMS

KEITH
Engineering Inspired Design.

KEITH
Engineering Inspired Design.

KEITH
CONCEPTUAL GREEN SPACE DESIGN

KEITH
1111 South Andrews Avenue
Fort Lauderdale, Florida 33304
Phone: 954.344.1111
www.keithdesign.com

KEITH

SAMPLE INSURANCE CERTIFICATE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

02/16/2024

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

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

PRODUCER Brown & Brown Insurance Services, Inc. 1201 W Cypress Creek Rd Suite 130 Fort Lauderdale FL 33309		CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): (954) 776-4446 E-MAIL ADDRESS: 053.Certs@bbrown.com															
INSURED KEITH & Associates, Inc., dba Keith 301 East Atlantic Blvd Pompano FL 33060		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Transportation Insurance Company</td> <td>20494</td> </tr> <tr> <td>INSURER B : The Continental Casualty Company</td> <td>20443</td> </tr> <tr> <td>INSURER C : The Continental Insurance Company</td> <td>35289</td> </tr> <tr> <td>INSURER D : National Fire Insurance Company of Hartford</td> <td>20478</td> </tr> <tr> <td>INSURER E : Arch Insurance Company</td> <td>11150</td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Transportation Insurance Company	20494	INSURER B : The Continental Casualty Company	20443	INSURER C : The Continental Insurance Company	35289	INSURER D : National Fire Insurance Company of Hartford	20478	INSURER E : Arch Insurance Company	11150	INSURER F :	
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INSURER F :																	

COVERAGES **CERTIFICATE NUMBER:** 24-25 GL/BA/WC/Umb/Prof **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			7036722272	02/19/2024	02/19/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY			7036722417	02/19/2024	02/19/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			7036722286	02/19/2024	02/19/2025	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WC736723311	02/19/2024	02/19/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Professional Liability/Pollution Liability			CPP006493604	02/19/2024	02/19/2025	Per Claim 2,000,000 Aggregate 6,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER Sample	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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CAM# 24-0696
 Exhibit 3
 Page 66 of 79

SAMPLE INSURANCE CERTIFICATE

ACORD CERTIFICATE OF LIABILITY INSURANCE DATE (MM/DD/YYYY) 04/24/2023

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

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

PRODUCER: Marsh Risk Insurance Services
 CA License #0437153
 633 W. Fifth Street, Suite 1200
 Los Angeles, CA 90071
 Aflr: LosAngeles.CertRequests@Marsh.com
 C0110385547ND-04/24/23

INSURED: ACORD
 199 Avenue of the Stars, Suite 200
 Los Angeles, CA 90067

COVERAGES: CERTIFICATE NUMBER: LOC00225791148 REVISION NUMBER:

TYPE	CLASSIFICATION	INSURANCE	POLICY NUMBER	POLICY EFF. DATE	POLICY EXP. DATE	LIMITS
A	COMMERCIAL GENERAL LIABILITY	CLAIMS-MADE / OCCUR	000 04729475	04/01/2023	04/01/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 1,000,000 MED EXP (Per person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY	ANY AUTO OWNED / SCHEDULED AUTOS ONLY / UNLICENSED AUTOS ONLY	BA10738551	04/01/2023	04/01/2024	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per occurrence) \$
A	UMBRELLA LIAB	EXCESS LIAB / CLAIMS-MADE / OCCUR	SEE ACORD 101	04/01/2023	04/01/2024	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
C	WORKERS COMPENSATION AND EMPLOYERS LIABILITY	EMPLOYERS LIABILITY / ACCIDENT AND SICKNESS / DISABILITY / BENEFITS UNDER OPERATIONS below	SEE ACORD 101	04/01/2023	04/01/2024	E.L. ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required):
 EVIDENCE OF COVERAGE

CERTIFICATE HOLDER: ACORD
 199 Avenue of the Stars, Ste. 200
 Los Angeles, CA 90067

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: *Marsh Risk & Insurance Services*

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ACORD CERTIFICATE OF LIABILITY INSURANCE DATE (MM/DD/YYYY) 04/14/2022

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

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

PRODUCER: Brown & Brown Northwest
 601 SW 2nd Avenue, Suite 1200
 Fort Lauderdale, FL 33304

INSURED: CMTS LLC
 2598 E. Sunrise Blvd.
 Fort Lauderdale FL 33304

COVERAGES: CERTIFICATE NUMBER: 60732730 REVISION NUMBER:

TYPE	CLASSIFICATION	INSURANCE	POLICY NUMBER	POLICY EFF. DATE	POLICY EXP. DATE	LIMITS
A	COMMERCIAL GENERAL LIABILITY	CLAIMS-MADE / OCCUR	6042950423	10/1/2021	10/1/2022	EACH OCCURRENCE \$ 1,500,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 150,000 MED EXP (Per person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY	ANY AUTO OWNED / SCHEDULED AUTOS ONLY / UNLICENSED AUTOS ONLY	6042950390	10/1/2021	10/1/2022	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per occurrence) \$
A	UMBRELLA LIAB	EXCESS LIAB / CLAIMS-MADE / OCCUR	6042950406	10/1/2021	10/1/2022	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
C	WORKERS COMPENSATION AND EMPLOYERS LIABILITY	EMPLOYERS LIABILITY / ACCIDENT AND SICKNESS / DISABILITY / BENEFITS UNDER OPERATIONS below	121AE015682902	10/1/2021	10/1/2022	E.L. ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Cyber/Internet Liability		W1E5FB220501	10/1/2021	10/1/2022	Per Occur: \$5,000,000 Aggregate Limit: \$5,000,000 Retention: Limit: \$1,000,000 / Retention: \$2,500

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required):
 EVIDENCE OF COVERAGE

CERTIFICATE HOLDER: Keith Engineering
 301 E. Atlantic Blvd
 Pompano Beach, FL 33060

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: *Craig Payne*

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ACORD CERTIFICATE OF LIABILITY INSURANCE THEENG-01 DATE (MM/DD/YYYY) 1/20/2024

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

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PRODUCER: Acorsure, LLC db/a InSource
 9500 South Dadeland Boulevard
 4th Floor
 Miami, FL 33156-2867

INSURED: The Engineering Company, LLC
 Turnberry Plaza
 2875 NE 191 Street, Suite 602
 Aventura, FL 33180

COVERAGES: CERTIFICATE NUMBER: 21SBMAL6W66 REVISION NUMBER:

TYPE	CLASSIFICATION	INSURANCE	POLICY NUMBER	POLICY EFF. DATE	POLICY EXP. DATE	LIMITS
A	COMMERCIAL GENERAL LIABILITY	CLAIMS-MADE / OCCUR	21SBMAL6W66	5/11/2023	5/11/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 1,000,000 MED EXP (Per person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY	ANY AUTO OWNED / SCHEDULED AUTOS ONLY / UNLICENSED AUTOS ONLY	21SBMAL6W66	5/11/2023	5/11/2024	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per occurrence) \$
A	UMBRELLA LIAB	EXCESS LIAB / CLAIMS-MADE / OCCUR	21SBMAL6W66	5/11/2023	5/11/2024	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS LIABILITY	EMPLOYERS LIABILITY / ACCIDENT AND SICKNESS / DISABILITY / BENEFITS UNDER OPERATIONS below	010H54570223	6/8/2023	6/8/2024	E.L. ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required):
 EVIDENCE OF COVERAGE

CERTIFICATE HOLDER: The Engineering Company, LLC
 Turnberry Plaza
 2875 NE 191 Street, Suite 602
 Aventura, FL 33180

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: *Chris R. Hill*

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ACORD CERTIFICATE OF LIABILITY INSURANCE Client#: 2310922 13PC1810 DATE (MM/DD/YYYY) 01/20/2023

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

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PRODUCER: McGriff Insurance Services LLC
 200 W. Forsyth St, Suite 500
 Jacksonville, FL 32202

INSURED: PCI Stormwater Solutions, Inc.
 1007 N Federal Highway
 Suite #267
 Fort Lauderdale, FL 33304

COVERAGES: CERTIFICATE NUMBER: SP005795012023 REVISION NUMBER:

TYPE	CLASSIFICATION	INSURANCE	POLICY NUMBER	POLICY EFF. DATE	POLICY EXP. DATE	LIMITS
A	COMMERCIAL GENERAL LIABILITY	CLAIMS-MADE / OCCUR	SP005795012023	07/31/2023	07/31/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 125,000 MED EXP (Per person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 12,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY	ANY AUTO OWNED / SCHEDULED AUTOS ONLY / UNLICENSED AUTOS ONLY	5067189000	07/31/2023	07/31/2024	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per occurrence) \$
A	UMBRELLA LIAB	EXCESS LIAB / CLAIMS-MADE / OCCUR	5X005796012023	07/31/2023	07/31/2024	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 12,000,000
C	WORKERS COMPENSATION AND EMPLOYERS LIABILITY	EMPLOYERS LIABILITY / ACCIDENT AND SICKNESS / DISABILITY / BENEFITS UNDER OPERATIONS below	0196585556	07/31/2023	07/31/2024	E.L. ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liab		SP005795012023	07/31/2023	07/31/2024	\$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required):
 EVIDENCE OF COVERAGE

CERTIFICATE HOLDER: PCI Stormwater Solutions, Inc.
 1007 N Federal Hwy #267
 Fort Lauderdale, FL 33304

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: *Chris R. Hill*

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CAM# 24-0696
 Exhibit 3
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NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,


3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>	<u>RELATIONSHIPS</u>
n/a	n/a

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.



 Authorized Signature
 Alex Lazowick, PE, PMP, ENV SP

 Name (Printed)

President

 Title
 2/6/2024

 Date



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.


Authorized Signature

Alex Lazowick, PE, PMP, ENV SP - President
Print Name and Title

2/6/2024
Date

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

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

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

Name: Alex Lazowick, PE, PMP, ENV SP Title: President Entity: Keith and Associates, Inc. dba KEITH


Signature:  Date: 2/6/2024

NOTARY PUBLIC ACKNOWLEDGEMENT SECTION

STATE OF Florida
COUNTY OF Broward

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this 6th day of January 2024 by Alex Lazowick, as

President for Keith and Associates, Inc. dba KEITH, who is personally known to me or who has produced n/a as identification.

Notary Public Signature: 
Print Name: Shekinah Weber

(Notary Seal) 
My commission expires: 12/5/2026



E-VERIFY AFFIRMATION STATEMENT

Solicitation/Bid /Contract No: RFQ/EVENT# 223

Project Description:


Critical Stormwater Infrastructure Condition Assessment Program Continuing Services Contract

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- A. all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: Keith and Associates, Inc. dba KEITH

Authorized Company Person's Signature: 

Authorized Company Person's Title: President

Date: 2/6/2024



CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City’s P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor’s participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

MasterCard

Visa

Keith and Associates, Inc. dba KEITH

Company Name

Alex Lazowick, PE, PMP, ENV SP

Name (Printed)

Alex Lazowick
Signature

President

Title

2/6/2024

Date

CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION

Please Note: It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) Keith and Associates, Inc. dba KEITH EIN (Optional): 65-0806421

Address: 301 E Atlantic Blvd

City: Pompano Beach State: FL Zip: 33060

Telephone No.: 954-788-3400 FAX No.: n/a Email: marketing@keithteam.com

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

Total Bid Discount (**section 1.05 of General Conditions**): 0

Check box if your firm qualifies for DBE (**section 1.09 of General Conditions**): n/a

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

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
<u>1</u>	<u>2/16</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A.

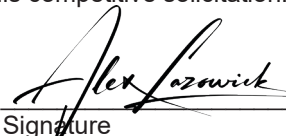
n/a

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Alex Lazowick, PE, PMP, ENV SP
Name (printed)

2/6/2024
Date


Signature

President
Title

CAM# 24-0696
Exhibit 3
Page 73 of 79



City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, Suite 619 • Fort Lauderdale, Florida 33301
954-828-5933 • Fax 954-828-5576 • purchase@fortlauderdale.gov

ADDENDUM NO. 1 **RFQ No. 223**

Critical Stormwater Infrastructure Condition Assessment Program

ISSUED: **February 16, 2024**

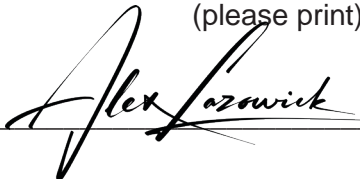
This addendum is being issued to make the following change(s):

1. The Proposal Due Date has been changed to Friday, February 23, 2024, at 2:00PM Local Time.

All other terms, conditions, and specifications remain unchanged.

Michelle Lemire
Procurement Administrator

Company Name: Keith and Associates, Inc. dba KEITH
(please print)

Bidder's Signature: 

Date: 02/16/2024

LOCAL BUSINESS TAX RECEIPT



CITY OF FORT LAUDERDALE
BUSINESS TAX YEAR 2023-24



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

Business ID: BL-1700353 Business Name: WEINBERG, PAUL HARVEY
Business Address: 2312 S ANDREWS AVE

PAUL HARVEY WEINBERG
KEITH AND ASSOCIATES INC
301 E ATLANTIC BLVD
POMPANO BEACH FL 33060

TAX CATEGORIES
412300 LANDSCAPE ARCHITECT

Contact: WEINBERG, PAUL HARVEY
Business Email: Admin@Keithteam.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email businessstax@fortlauderdale.gov, and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to businessstax@fortlauderdale.gov and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.
Fort Lauderdale, FL 33311
TEL 954 828 5195
WWW.FORTLAUDERDALE.GOV



CITY OF FORT LAUDERDALE
BUSINESS TAX YEAR 2023-24



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

Business ID: BT-GEN-20090056 Business Name: AECOM TECHNICAL SERVICES INC
Business Address: 110 E BROWARD BLVD # 700

SHIRLEY STARK
AECOM TECHNICAL SERVICES INC
110 E COMMERCIAL BLVD # 700
FORT LAUDERDALE FL 33301

TAX CATEGORIES
418300 PROFESSIONAL OFC (ADMINISTRATION)

Contact: SANDRA PARET
Business Email: Dcsdivisiontaxrequest@Aecom.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email businessstax@fortlauderdale.gov, and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to businessstax@fortlauderdale.gov and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.
Fort Lauderdale, FL 33311
TEL 954 828 5195
WWW.FORTLAUDERDALE.GOV



CITY OF FORT LAUDERDALE
BUSINESS TAX YEAR 2023-24



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

Business ID: BT-SLP-22070097 Business Name: HERRERA, OMAR
Business Address: 942 NW 56TH STREET

OMAR HERRERA
THE ENGINEERING COMPANY, LLC
942 NW 56TH STREET
FORT LAUDERDALE FL 33309

TAX CATEGORIES
408800 ENGINEER

Contact: OMAR HERRERA
Business Email: Omar@Theengineeringco.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email businessstax@fortlauderdale.gov, and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to businessstax@fortlauderdale.gov and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.
Fort Lauderdale, FL 33311
TEL 954 828 5195
WWW.FORTLAUDERDALE.GOV

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-357-4829
VALID OCTOBER 1, 2023 THROUGH SEPTEMBER 30, 2024

Business Name: PCI STORM WATER SOLUTIONS INC. Receipt #: 22-00268371
Business Type: CLEANING, SANITATIONAL, SYSTEMS
Owner Name: CHRISTOPHER CAMPBELL Business Opened: 01/18/2005
Business Location: 1007 N FEDERAL HWY 267 FT LAUDERDALE State/County/Cert/Reg: FL/DADE/0000000000
Business Phone: 954-446-1360 Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		1		

Number of Machines:		For Vending Business Only		Vending Type		Total Paid
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prox Years	Collection Cost	
33.00	0.00	0.00	0.00	0.00	0.00	33.00

Receipt Fee: 33.00
Packaging/Processing/Canning Employees: 0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT
WHEN VALIDATED

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.

Mailing Address: CHRISTOPHER CAMPBELL, 1007 N FEDERAL HWY, PMB 4267, FORT LAUDERDALE, FL 33304
Receipt #: 2023-00268371
Paid 08/28/2023 33.00

2023 - 2024

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-357-4829
VALID OCTOBER 1, 2023 THROUGH SEPTEMBER 30, 2024

Business Name: PCI STORM WATER SOLUTIONS INC. Receipt #: 22-00268371
Business Type: CLEANING, SANITATIONAL, SYSTEMS
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Rooms	Seats	Employees	Machines	Professionals
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Number of Machines:		For Vending Business Only		Vending Type		Total Paid
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prox Years	Collection Cost	
33.00	0.00	0.00	0.00	0.00	0.00	33.00

Receipt #: 2023-00268371
Paid 08/28/2023 33.00

CAM# 24-0696
Exhibit 3
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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 P98000006011.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on January 11, 2024, 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 Twentieth day of February,
2024*




Secretary of State


Tracking Number: 1374073779CU

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

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

CAM# 24-0696
Exhibit 3
Page 76 of 79

CERTIFICATE OF STATUS



State of Florida
Department of State

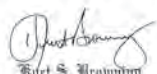
I certify from the records of this office that CMTS LLC doing business in Florida as CMTS CONSTRUCTION MANAGEMENT SERVICES LLC, is a Wyoming limited liability company authorized to transact business in the State of Florida, qualified on January 21, 2011.

The document number of this limited liability company is M1100000302.


I further certify that said limited liability company has paid all fees due this office through December 31, 2011, and its status is active.

I further certify that said limited liability company has not filed a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-fourth day of January, 2011



Karl S. Arcandine
Secretary of State



01052023 101-077

State of Florida Department of State

I certify from the records of this office that AECOM TECHNICAL SERVICES, INC. is a California corporation authorized to transact business in the State of Florida, qualified on August 21, 1995.


The document number of this corporation is F9500004014.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on February 7, 2023, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eleventh day of January, 2024




Secretary of State

Tracking Number: 6799610847CU

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

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

State of Florida Department of State

I certify from the records of this office that THE ENGINEERING COMPANY, LLC is a limited liability company organized under the laws of the State of Florida, filed on March 2, 2016, effective March 2, 2016.

The document number of this limited liability company is L16000044355.

I further certify that said limited liability company has paid all fees due this office through December 31, 2023, that its most recent annual report was filed on March 15, 2023, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifteenth day of March, 2023




Secretary of State

Tracking Number: 3802257028CC

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

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

2023 FLORIDA PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# P07000009215

Entity Name: PCI STORM WATER SOLUTIONS INC.

Current Principal Place of Business:
1007 N FEDERAL HIGHWAY SUITE 267
FORT LAUDERDALE, FL 33304

Current Mailing Address:
1007 N FEDERAL HIGHWAY
SUITE 267
FT LAUDERDALE, FL 33304

FEI Number: 20-8267291

Name and Address of Current Registered Agent:

CAMPBELL, CHRISTOPHER P
1007 N FEDERAL HIGHWAY,
267
FT LAUDERDALE, FL 33304, US

Certificate of Status Desired: No

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

Title: P
Name: CAMPBELL, CHRISTOPHER P
Address: 1007 N FEDERAL HIGHWAY, SUITE 267
City-State-Zip: FT LAUDERDALE, FL 33304

I hereby certify that the information indicated on this report is a supplemental report of true and accurate and that my electronic signature shall have the same legal effect as if made under oath, that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 807, Florida Statutes, and that my name appears above as an officer or director of the corporation.

SIGNATURE: CHRISTOPHER CAMPBELL

PRESIDENT

04/05/2023

Electronic Signature of Signing Officer/Director Detail

Date

CAM# 24-0696
Exhibit 3
Page 77 of 79

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type.
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Keith and Associates, Inc.	
2 Business name/disregarded entity name, if different from above dba KEITH	
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
5 Address (number, street, and apt. or suite no.) See instructions. 301 East Atlantic Boulevard	Requester's name and address (optional)
6 City, state, and ZIP code Pompano Beach, FL 33060	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
or									
Employer identification number									
6	5	-	0	8	0	6	4	2	1

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶	Date ▶ 1/2/2024
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



KEITH