



Engineering Inspired Design.

SURVEYING AND MAPPING CONSULTING SERVICES

DCRA 19-026
NEIGHBORHOOD LIGHTING
AND STREETScape



AUGUST 27, 2019

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

- A. Dodie Keith-Lazowick, President



KEITH
Engineering Inspired Design.



DCRA 19-026
SURVEYING AND MAPPING CONSULTING SERVICES
TO THE CRA FOR NEIGHBORHOOD
LIGHTING AND STREETScape

August 27, 2019

Submitted by:



Alex Lazowick, PE, PMP
Executive Vice President

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TAB 3

LETTER OF

TRANSMITTAL

 *Engineering Inspired Design.*



August 27, 2019

City of Hollywood
 City Clerk's Office, City Hall
 2600 Hollywood Boulevard, Room 221
 Hollywood, Florida 33020

Dear Selection Committee,

It is with great pleasure that Keith and Associates, Inc. dba KEITH, provides you our response to solicitation RFQ DCRA 19-026 for Surveying and Mapping Consulting Services - to the CRA for Neighborhood Lighting and Streetscape. As a multi-disciplined firm, with our largest group of experts within our Location Department: Surveying and Mapping, GIS, 3D Laser Scanning, Utility Coordination and Subsurface Utility Engineering (SUE), we can harness our experience with the City of Hollywood and knowledge of our talented staff to streamline services, and increase efficient responsive customer service.



Throughout the Firm's 21-year history, KEITH has been awarded over 75 continuing service contracts. **In addition, the KEITH Team has provided various surveying, subsurface utility engineering (SUE), and civil engineering in the City of Hollywood including:**

- **City of Hollywood Boulevard Heights Septic-to-Sewer Conversion**
- **Hollywood Circle Publix**
- **Hollywood Circle, Sun-Up Enterprises**
- **Hollywood Circle, Stiles Corporation**
- **FDOT Design Services for Washington Street and SW/NW 72nd Avenue Mobility Improvements**
- **Coca-Cola Facility Hollywood**

As one of the veteran consulting firms in the community, KEITH is more than qualified to meet the City's needs. Our team's familiarity with Hollywood staff, procedures, utility representatives, local conditions and the City's unique community provides us valuable insight into this contracts needs and requirements. The KEITH Team has held the Hollywood Continuing Surveying Services contract since 2014. As our local population continues to grow, proper planning and management of the growth process is imperative to sustaining our development, as well as the quality of life for the City of Hollywood residents. KEITH is well-suited to continue to serve as your Consultant for Professional Surveying services. Our experience with continuing services contracts, combined with our specific discipline expertise including our history in the City of Hollywood, translates to a firm that can step in on day one and integrate seamlessly with City staff and save the City time and money.

Our KEITH team brings decades of experience performing precisely the type of work requested in the scope of services. We understand the scope of services thoroughly, having completed many of these surveys, associated searches and analyses for various City, State and County projects in Florida and within the boundary of the City of Hollywood. These projects range in complexity from boundary surveys with legal description, any existing or dedicated easements, all improvements, such as buildings, walks, paving, etc., all existing utilities, on site and R-O-W, including water, sewer, drainage, power, phone, cable, gas, etc., topographic data, extend surveys, any existing vegetation with identification and FEMA flood designation. We are committed to performing all our work in a timely manner, as well as meeting the requirements of this RFQ including full surveying and mapping services, construction layout, boundary surveys, preparation of sketches and legal descriptions, mapping, AutoCAD drafting, calculations, etc.

We bring a team of committed, diverse, and experienced team of professionals to meet the City's needs through our performance and continued commitment to deliver on all projects. Our team includes senior management personnel who are committed to managing and coordinating the work efforts for this contract. Our proposed staff are experts in their fields, trained to efficiently address all concerns which may arise.

The ability to offer in-house surveying and SUE services provides for a more comprehensive team. Our survey staff of 18 field personnel and 12 office personnel is fully knowledgeable with TDS Data Collection Systems, AutoCAD 2005-2013, and Civil 3D. Our field crews have extensive experience in performing all types of surveys and are equipped with state-of-the-art equipment including Trimble GPS, Leica Digital Levels and scanners, and TopCon Total Stations. All our crews have their OSHA safety certification, Maintenance of Traffic (MOT) certification, as well as Department of Homeland Security background clearance to comply with the Jessica Lunsford Act.

I am confident in our proposed team and we will exceed the City's expectations of this contract. Our team's Survey and Mapping Project Manager, Mr. Lee Powers, PSM, has the experience, expertise and resources necessary to make sure our team completes all assignments to your highest satisfaction. Our President and Surveying and Mapping QA/QC Officer, Ms. Dodie Keith-Lazowick, PSM is a lifelong resident of Broward County and understands many of the challenges facing the City of Hollywood. With her 41+ years of experience in the surveying and mapping realm, and as District Director of the Florida Surveying and Mapping Society, she is an outspoken leader in the survey community. She continues to keep our commitment to quality as a part of our firm's culture. We don't just say it; we provide and deliver it on every assignment.

The KEITH team is ready and able to partner with you on this contract, as we have done for many years for the City on a variety of other projects. I bring to you the personal commitment of myself, my firm, our long-standing reputation of good, thorough and accurate work, accountability, and no excuses. We are dedicated to serving the City of Hollywood and look forward to our continued partnership.

We are the Team you can CONTINUE to trust to get the job done!

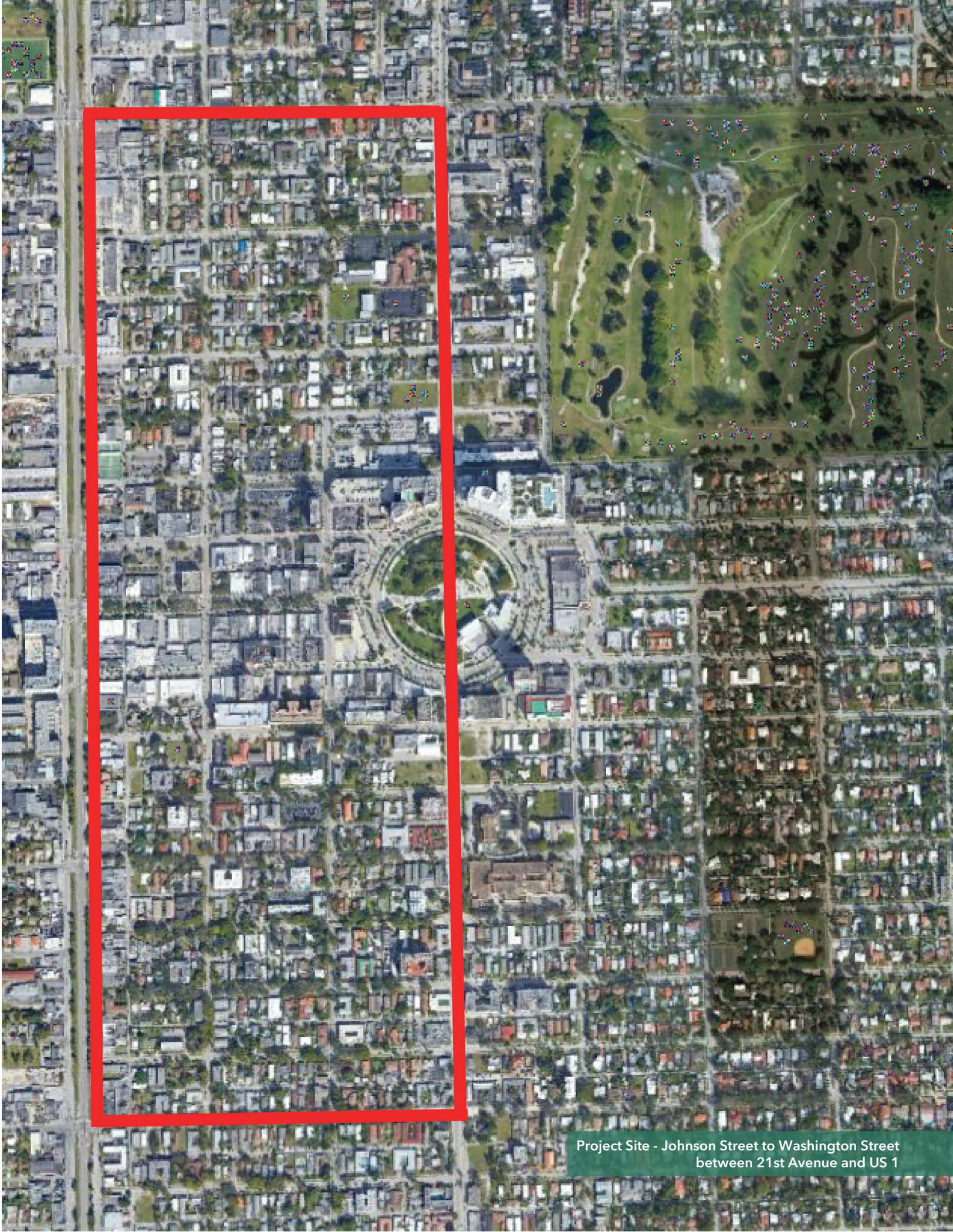
We submit the following information for your review and we thank you for your consideration.

Respectfully,



Alex Lazowick, PE, PMP
Executive Vice President
ALazowick@KEITHteam.com
954-788-3400





Project Site - Johnson Street to Washington Street
between 21st Avenue and US 1

TAB 4 STANDARD FORMS 330

 Engineering Inspired Design.



ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> Suveying & Mapping Consulting Services - Hollywood CRA	
2. PUBLIC NOTICE DATE August 27, 2019	3. SOLICITATION OR PROJECT NUMBER BCRA 19-001

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE Alex Lazowick, PE, PMP		
5. NAME OF FIRM KEITH		
6. TELEPHONE NUMBER 954-788-3400	7. FAX NUMBER	8. E-MAIL ADDRESS alazowick@keithteam.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V	PARTNER	SUBCON-TRACTOR			
a.	✓				KEITH <input type="checkbox"/> CHECK IF BRANCH OFFICE	301 E. Atlantic Avenue Pompano Beach, FL 33060	Survey / SUE
b.					 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.					 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.					 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.					 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.					 <input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

BCRA 19-001

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME KEITH			3. YEARS ESTABLISHED 1998	4. DUNS NUMBER 618480219
2b. STREET 301 East Atlantic Boulevard			5. OWNERSHIP	
2c. CITY Pompano Beach	2d. STATE FL	2e. ZIP CODE 33060	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE A. Dodie Keith-Lazowick, PLS, President			b. SMALL BUSINESS STATUS N/A	
6b. TELEPHONE NUMBER 954-788-3400	6c. E-MAIL ADDRESS marketing@keithteam.com		7. NAME OF FIRM (if block 2a is a branch office) N/A	
8a. FORMER FIRM NAME(S) (if any) Keith and Associates, Inc.			8b. YR. ESTABLISHED N/A	8c. DUNS NUMBER N/A

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) Firm	(2) Branch			
02	Administrative	17	1	A06	Airports; Terminals and Hangars	6
12	Civil Engineering, PE	9	5	B02	Bridges	2
60	Transportation Engineering, PE	3	2	C07	Coastal Engineering	2
15	Construction Inspector	3		C10	Commercial Building (Low Rise)	6
16	Construction Manager	21		C11	Community Facilities	5
29	G.I.S. Specialist	1		C15	Construction Management	6
38	Land Surveyor, PSM	6		C16	Construction Surveying	4
39	Landscape Architect, RLA	3	3	E02	Educational Facilities	4
47	Planner: Urban/Regional	8	8	F02	Field Houses; Gyms; Stadiums	3
48	Project Manager	4	2	G04	G.I.S. Services; Development, Analysis	2
53	Scheduler	2		H07	Highways, Street, Airfield Paving	4
	Landscape Designer	6	5	H09	Hospitals & Medical Facilities	3
	Project Engineer	27	6	I06	Irrigation; Drainage	4
	Project Surveyor	6		L03	Landscape Architecture	5
	Survey Field Crew	15		P05	Planning (Community, Regional...)	4
	Subsurface Utility Engineer	5	1	R03	Railroad; Rapid Transit	3
	Subsurface Utility Field Crew	8		R04	Recreation Facilities (Parks, Marinas, etc.)	5
	Utility Coordinator	8	2	S10	Surveying; Platting; Mapping; Flood Study	4
	VDC/BIM/CIM	1		S13	Storm Water Handling & Facilities	3
				T04	Topographic Surveying & Mapping	4
				W03	Water Supply; Treatment & Distribution	2
				Z01	Zoning; Land Use Studies	2
TOTAL		151	32			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	N/A	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	8. \$25 million to less than \$50 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
c. Total Work	8	3. \$250,000 to less than \$500,000	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million	

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE



b. DATE

August 27, 2019

c. NAME AND TITLE

Alex Lazowick, Executive Vice President



City of Hollywood Boulevard Heights Septic-to-Sewer Conversion

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Dodie Keith-Lazowick, PLS		13. ROLE IN THIS CONTRACT Principal-in-Charge/ QA/QC Officer		14. YEARS OF EXPERIENCE	
				a. TOTAL 41	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Land Surveying, University of Florida, 1982			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) State of Florida Professional Surveyor & Mapper #4105		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Survey and Mapping Society (FSMS), American Congress on Surveying and Mapping, National Society of Professional Surveyors, Co-author – “Laws and Regulations Affecting Surveying Practice in Florida”, ACSM/FSPLS Student Chapter, 1982, Co-Author – “Total Station Capability”, Proceedings of the ASCM, Fall 1984, San Antonio, Texas					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Pompano Beach Miscellaneous Engineering and Surveying Services (Pompano Beach, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
a.	KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over sixteen years. Ms. Keith-Lazowick serves as the Contract Manager/Elected Officials Liaison for the firm. Many of the project assignments have been in the redevelopment of roadways, parking facilities and utility infrastructure design. All the firm's services are utilized including planning, engineering, surveying, subsurface utility engineering (SUE), and landscape architecture. Signature design and construction projects include Martin Luther King Boulevard Streetscape and Utility Improvements, Old Historic Pompano Downtown Roadway and Utility Improvements, Pompano Beach Boulevard Streetscape, Utility and Dune Restoration and Municipal Reclaimed Water Main Phase III Design and Construction project.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Hollywood Boulevard Heights Septic-to-Sewer Conversion (Hollywood, Florida)		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street. Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Parkland Miscellaneous Planning & Engineering Services Contract (Parkland, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	KEITH has served as the General Planning and Engineering Consultant for the City of Parkland for over 11 years. KEITH is providing on-going continuing serves as needed including general planning, engineering and surveying and mapping services to the municipality. Ms. Keith-Lazowick serves as the senior staff/elected officials' liaison for the firm. Some projects provided under these contracts include GIS mapping of municipal street map, zoning maps and land use maps, and miscellaneous topographic and boundary surveys for various municipal design contracts.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Deerfield Beach & CRA Miscellaneous Engineering Services (Deerfield Beach, FL)		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	KEITH has been providing ongoing continuing General Engineering and Surveying and Mapping services to the municipality on an as needed basis for over fourteen years. Ms. Keith-Lazowick is the Senior Staff/Elected Officials Liaison for the firm on an as needed basis. Some projects provided under these contracts include: Hillsboro Boulevard Beautification & Utility Improvement, Beach Dune Re-Nourishment Program, Ocean Way Improvement, and The Cove Shopping Center Drainage & Beatification Improvement.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
South Florida Water Management District (SFWMD) Miscellaneous Surveying (Fort Lauderdale, Florida)		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	As a subconsultant, KEITH was tasked with providing surveying services for the following projects: LASPAL Monitoring Station (well site), G-16 Boundary Survey, C-14 Boundary Survey, Cell 2, C-16/G-14 ROW Map Recording and Hillsboro Canal Phase 1.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen Williams, PE	13. ROLE IN THIS CONTRACT Client Service Manager	14. YEARS OF EXPERIENCE	
		a. TOTAL 48	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION (City and State)

KEITH, Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION)

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

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

State of Florida Professional Engineer #32090

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Society of Civil Engineers (ASCE), Florida Engineering Society (FES), National Society of Professional Engineers (NSPE), Leadership Broward I, Fort Lauderdale Unsafe Structures Board. Computer Skills include: ProjectWise, AutoCAD; Bentley WaterGEMS, SewerGEMS; EPANET – Water System Analysis; EPA SWMM – Stormwater Management Model; Fortran

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Port Everglades Southport Phase IX-B (Fort Lauderdale, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This Proposed 23-acre Southport IX-B, Project proposes to construct the paved laydown/storage yards for shipping containers or other port storage requirements. This involves the paving of the approximately 23 acres and an additional 1.2-acre dry retention area, which will connect to the existing western dry retention areas. The proposed project will drain to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC. Mr. Williams serves as the lead site design engineer and Project Manager.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	Everglades Holiday Park Improvements (Fort Lauderdale, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH is providing comprehensive design, permitting, bidding and construction phase services associated with site improvements at Everglades Holiday Park. The improvements include renovation, construction and/or reconstruction of boat docks, boat ramps, parking, ancillary buildings, limited utility infrastructure, other minor park related amenities and improvements. Mr. Williams is serving as the project manager for this contract wherein KEITH is the Prime consultant.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	City of Parkland Miscellaneous Planning & Engineering Services Contract (Parkland, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH has served as the General Planning and Engineering Consultant for the City of Parkland for over 11 years. KEITH is providing on-going continuing services as needed including general planning, engineering and surveying and mapping services to the municipality. Mr. Williams serves as the senior staff/elected officials' liaison for the firm. Some projects provided under these contracts include GIS mapping of municipal street map, zoning maps and land use maps, and miscellaneous topographic and boundary surveys for various municipal design contracts.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	City of Deerfield Beach & CRA Miscellaneous Engineering Services (Deerfield Beach, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH has been providing ongoing continuing General Engineering and Surveying and Mapping services to the municipality on an as needed basis for over fourteen years. Mr. Williams is the project manager for the firm on an as needed basis. Some projects provided under these contracts include: Hillsboro Boulevard Beautification & Utility Improvement, Beach Dune Re-Nourishment Program, Ocean Way Improvement, and The Cove Shopping Center Drainage & Beatification Improvement.		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	NE 38th Street from Dixie Highway to NE 13th Avenue (Oakland Park, Florida)	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Williams was the Engineer of Record for the design of N.E. 38 Street from Dixie Highway through the intersection of N.E. 13 Avenue. The goal was to enhance the pedestrian movements and vehicular traffic circulation in the area by developing paving, grading, drainage, landscaping and street lighting plans. The roadway cross-section included a sidewalk on the south side of N.E. 38 Street. The sidewalk on the north side of NE 38 Street was supplied by the Oakland Station development on the Oakland Station property in a sidewalk easement. This project connects the city's N.E. 12 Avenue project to their N.E. 38 Street project. Further designed a stormwater management system that includes a pumping station to eliminate frequent flooding of low roadway segments. The roadway reconstruction included upgrading the water and sanitary sewer systems as well as new storm drainage lines.		<input type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Lee Powers, PSM	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS OF EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Land Surveying & Geomatics Engineering, Purdue University, 2005		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor & Mapper, Florida #6805	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Society of Professional Surveyors & Mappers, BIM Smart Foundation, Member, BuildingSMART Foundation Member. Certifications: Transportation Worker Identification Credential (TWIC), FDOT Maintenance of Traffic			

19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	City of Hollywood Boulevard Heights Septic-to-Sewer Conversion (Broward County, Florida)	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW 7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street. Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.		
b.	Broward County Parks and Recreation Department General Surveying Consultant Services Contract (Broward County, Florida)	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As part Broward County's \$400 Million Bond Program, KEITH provided general surveying and mapping services to the County's Park and Recreation Department. As Project Surveyor, Mr. Powers prepared Boundary and Topographic surveys for multiple parks including CM Smith Park Aquatics Center, Central Broward Regional Park, Tradewinds Park, Quiet Waters Park and Driftwood.		
c.	The Wave Modern Streetcar, Fort Lauderdale, Florida (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH was tasked with providing Surveying and Subsurface Utility Engineering (SUE) services for this modern streetcar in Downtown Fort Lauderdale between Northwest 6th Street and Southeast 17th Street. Mr. Powers served as the Project Manager for this project. The system would operate 5 modern streetcars through 2.7 miles in mixed traffic along existing roadways and would utilize transit signal priority. Surveying services include project control, aerial targets, topography/DTM, aerial clearances, drainage and sanitary details, recovery of property and right-of-way monumentation, boundary surveys, and survey support for the geotechnical operations.		
d.	S.E. 8th Court Bridge Replacement (Pompano Beach, Florida)	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Powers was the Project Manager for this design and reconstruction project including right of way and design survey, utility location and bathymetric survey for the replacement of an existing substandard municipal bridge. The specific survey work associated with this project included hydrographic, topographic and design survey associated with the proposed design of the replacement bridge and seawall as well as as-building the required improvements upon completion of construction to provide the necessary final certification documentation to the designer.		
e.	City of Pompano Beach City and CRA General Engineering, Surveying and Mapping Services (Pompano Beach, Florida)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Through our continuing services contract, KEITH has provided surveying and mapping services for multiple parks and public spaces within the City. As Project Surveyor Mr. Powers prepared Boundary and Topographic surveys, as well as sketches of description for Pompano Community Park, Highlands Park, Alsdorf Park, Rustic Bridge Park, Founders Park and Lovely Park.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Daniel Checchia	13. ROLE IN THIS CONTRACT Subsurface Utility Engineering and Utility Coordination Manager	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) AS Applied Science in Construction Technology, Suffolk Community College, 2008		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT Maintenance of Traffic			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	City of Hollywood Boulevard Heights Septic-to-Sewer Conversion (Hollywood, Florida)	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW 7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street. Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	Hallandale Beach Fire Station 7 and Emergency Management Facility (Hallandale Beach, Florida)	2014	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The building program and design for the City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and include a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH is providing Civil Engineering, Landscape Architecture and SUE services.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	Professional Consultant Services for Fort Lauderdale-Hollywood International & North Perry Airports, Utilities & Pavement Projects (Fort Lauderdale, Florida)	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Checchia provided the design, engineering and resident project representative (RPR) services during construction for airport utility and pavement projects. The work performed is located both landside and airside. This is a 5 year task work order contract where Keith and Associates is serving as the Prime consultant.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
a.	Pompano Beach Downtown Connectivity Plan, Phase 1 & 2 (Pompano Beach, Florida)	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE KEITH is responsible for performing an area wide study of the Northwest CRA existing infrastructure to create an underground utilities atlas map as well as to analyze the existing roadway infrastructure for suitability, connectivity and circulation. KEITH prepared an assessment of the existing facilities and provided recommendations on suitability of the CRA's proposed land use. (Ph. 2) Based on the approved Connectivity Plan as provided by the Pompano Beach CRA, the proposed improvements are to include pedestrian friendly streetscape with landscape/hardscape beautification features along MLK Blvd and in the Old Pompano Downtown; including special pavement materials, pedestrian lighting and roadway, streetscape furnishings, utility adjustments and drainage and roadway improvements.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	Engineering Consultant Services for Highway Construction and Engineering Design (Broward County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a subconsultant to Atkins, KEITH provided surveying and subsurface utility engineering support for various county-wide transportation and general civil engineering projects. Typical services included design surveys, topographic surveys, water crossing surveys, 3D laser scanning, utility designation, locating and mapping to support project designs as well as post-construction services associated with new traffic signals, signal conversions, mast arm installations, evaluations of existing utilities, roadway widening, bridge rehabs, intersection improvements and school zone improvements among others.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Mitchell	13. ROLE IN THIS CONTRACT SUE Manager	14. YEARS OF EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 6

15. FIRM NAME AND LOCATION (City and State)
KEITH, Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) _____ **17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)** _____

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

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

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	FDOT D6 Districtwide Utility Location Services (Miami Dade County, FL)	Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
As a Prime consultant, KEITH is providing underground utility location services, including physical locates and surface designations to FDOT District 6 for contract FM #250723-2-32-03/-04. Through our designating, locating and mapping services, KEITH supports the District's current work program in completing the design and development of construction plans.

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
b.	Martin Luther King Jr. Boulevard (Pompano Beach, FL)	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
c.	Fire Station #11 (Pompano Beach, Florida)	2011	2012

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
d.	SR A1A Conversion (Pompano Beach, FL)	2015	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the City of Pompano Beach Project Manager on preparing the design build documents to be released for bid.

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
e.	Fort Lauderdale-Hollywood International Airport SUE Services (Fort Lauderdale, Florida)	Ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm
As the field supervisor, Mr. Mitchell was responsible for providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport such as Phase 1 Utility Atlas Update for South Runway Expansion, Phase 2 Utility Atlas for South Runway Expansion, Terminal 4 Fuel Line Relocation, 9R/27L Runway Expansion, Perimeter Road Water and Sewer Utility Improvements, Eastside Watermain Improvements, Westside Watermain Improvements, North Perry Airport HWO Wayfinding, Terminals 2 and 3, etc.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS OF EXPERIENCE	
Sean Marshall		Project Surveyor / Field Review and Safety Supervisor		a. TOTAL 25	b. WITH CURRENT FIRM 11
15. FIRM NAME AND LOCATION (City and State)					
KEITH, Pompano Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION)			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
Miami-Dade Community College					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
FDOT Maintenance of Traffic, OSHA (Occupational Safety & Health Administration)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
UAZ 207 Lighthouse Point 12" Watermain and 16" Forcemain (Lighthouse Point, Florida)			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	As a sub-consultant for Ric-Man Construction, KEITH is providing surveying services for wastewater services within UAZ 207. The scope includes the installation of approximately 4,500 linear feet of 16-inch force main and approximately 4,200 linear feet of 6-inch through 12-inch water main, in addition to 117 linear feet of concrete sidewalk in the City of Lighthouse Point.				
(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
Broward County North County Neighborhood Improvement Project #13 (Pompano Beach, Florida)			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	KEITH provided surveying services for the B.C.W.W.S. (Broward County Water and Wastewater Services) North County Neighborhood Improvement (Bid Package #13) as a sub-consultant for Ric-Man Construction. These services included the layout and as-built of the underground utilities (i.e. Drainage, Sewer and Potable Water Mains) and also the layout and as-builts for the reconstruction of the roadways within the project. Approximately 1,650 linear feet of force main, 15,400 linear feet of potable water mains, approximately 76 drainage structures and 15,000 linear feet of roadway.				
(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
Mainlands Park – Design/Build (Tamarac, Florida)			PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	The City of Tamarac was deeded the back nine holes of the former Monterey Golf Course to be developed as a park facility. Design elements of the park include a multi-purpose trail along the perimeter of the park and elevations to raise pathways, drinking fountains, shaded benches, fitness stations, a nature kiosk, fishing pier/observation platform, covered picnic tables, restroom facility, trash receptacles, and parking. KEITH provided Preliminary Engineering Plans, Coordination and Processing of Engineering Plans thru City, County and State-wide agencies. Water Distribution and Sanitary Sewer Plans, Paving, Grading, Drainage and Earthwork Plans, Stormwater Pollution Prevention Plans, Site Engineering Permitting, Project Meetings and Miscellaneous Coordination and Construction Observation and Certification Services associated with Mainlands Park in Tamarac.				
(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
North County Neighborhood Improvement Project #12 (Broward County, Florida)			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	KEITH provided surveying services for the B.C.W.W.S. (Broward County Water and Wastewater Services) North County Neighborhood Improvement (Bid Package #12) as a sub-consultant for Ric-Man Construction. These services included the layout and as-built of the underground utilities (i.e. Drainage, Sewer, Potable Water Mains and Reclaimed Water Mains) and also the layout and as-builts for the reconstruction of the roadways within the project. Approximately 19,800 linear feet of potable water mains, approximately 28,000 linear feet of reclaimed water mains, 110 drainage structures and 20,000 linear feet of roadway.				
(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
FDOT District 4 - I-595 Segment C – Zones 4, 5 & 6 (Fort Lauderdale, Florida)			PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2014	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm		
	Mr. Marshall served as the Project Surveyor and Field Review and Safety Supervisor providing surveying services for Broward County Project No. 86095 – State Road No. 862 (I-595) as a Sub-Consultant to Bergeron Land Development, Inc. (Prime Contractor) These services include the layout and as-built of the underground utilities and above ground improvements, also the layout and as-built for the construction of the new roadways within the project. Approximately 15,800 linear feet of fire suppression lines, approximately 676 drainage structures and approximately 4.0 miles of roadway.				

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Sean Halsey	13. ROLE IN THIS CONTRACT SUE Project Manager	14. YEARS OF EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Lewis & Clark College, Godfrey, IL, 1992		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT Maintenance of Traffic – Intermediate Level			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	FDOT D6 Districtwide Utility Coordination Services, Florida (Miami-Dade County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a Prime consultant, KEITH is providing utility coordination services to FDOT District 6 for contract FM #250723-3-32-01. The services provided under this task work order contract include initial contact, pre-design, contact, final design contact, utility clear package, utility project file & documents and project status report.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	FDOT District 6 Districtwide Utility Location Services (Miami-Dade County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a Prime consultant, KEITH is providing underground utility location services, including physical locates and surface designations to FDOT District 6 for contract FM #250723-2-32-03/-04. Through our designating, locating and mapping services, KEITH supports the District's current work program in completing the design and development of construction plans.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	FDOT District 4 Districtwide Survey and Subsurface Utility Engineering (SUE) Miscellaneous Contract (Broward, Palm Beach and Miami-Dade Counties, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Halsey worked with KEITH's SUE team which provided ASCE Standard Quality Level D–A Subsurface Utility Engineering services to designate, locate by excavation, survey and map existing surface and subsurface utilities to support the design of construction plans on a districtwide basis on projects selected by the District office. Services include providing the exact horizontal and vertical locations of existing underground utilities by way of electromagnetic, sonic and other geophysical location techniques including air/vacuum or other non-destructive excavation procedures.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	I-95 EXPRESS Phase 3A-1 (Broward County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project from South of Broward Boulevard to North of Commercial Boulevard, entails the widening roadway and bridges which will impact utility adjustment and installation of Toll Facilities. The Contribution of I-95 Express Lanes within Broward County to permit bridge widening on the mainline, as well as to provide the Design/Build firms with an awareness of permanent conflicts to construction and working conflicts. Mr. Halsey provided review and comments as a function of the TAG Team support to "Concept Designers" major effort to distribute utility design contracts to local cities/county for their reference to provide support of various design teams competing to win this project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	I-95 Express Lanes Phase 3A-2 (Broward County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project from North of Commercial Boulevard to SW 10 th Street, is a contribution of the I-95 Express Lanes within Broward County to enable Design/Build firms to have knowledge of identified conflicts within the project limits that must either be adjusted at the Design/Build firm's expense or they must design to avoid impacts. Mr. Halsey participated in the identification of potential impacts and assisted several cities with their understanding of the State's expectation for coordination and relocation.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Rebecca Green	13. ROLE IN THIS CONTRACT Utility Coordinator	14. YEARS OF EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Associates in Arts (A.A.) in General Studies, 2015		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	FDOT D6 Districtwide Utility Coordination Services, Florida (Miami-Dade County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a Prime consultant, KEITH is providing utility coordination services to FDOT District 6 for contract FM #250723-3-32-01. The services provided under this task work order contract include initial contact, pre-design, contact, final design contact, utility clear package, utility project file & documents and project status report.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	The Wave Modern Streetcar (Fort Lauderdale, Florida)	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Green coordinated with public and private utility agencies to create Utility Work Schedules in order to appropriately relocate/adjust/protect their facilities and to ensure compliance between the utility agency and awarded Design-Build Firm. She has been involved throughout the bidding process from rating proposals to creating the presentation for the Utility Pre-Proposal Meeting.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	Northern Layover and Light Maintenance Facility (Riviera Beach, Florida)	2018	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Working closely with the client, Ms. Green fulfilled Client requests for information regarding the public and private utility agencies including the compilation of a list of contacts and identification of potential project conflicts. She coordinated with the involved agencies to determine the exact location and/or depths of their facilities and attended multiple utility meetings with the client. Ms. Green also assisted in the collection and organization of field data gathered by the Subsurface Utility Engineering field crew and properly communicated this data to both the clients and the utility agencies. Ms. Green has assisted in the development of all schedules related to utility relocations and continues to attend progress and coordination meetings.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	I-95 and 45th Street (West Palm Beach, Florida)	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Green coordinated between project parties and introduced each utility agency to the concept plans and project overview. Currently, Ms. Green is drafting a write-up based on the information provided by the utility agencies for the PD&E study to assist in determining the most cost-effective and least impactful roadway design in regard to utilities.		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	I-95 Express Lanes Phase 3C (Broward County, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Green has been involved with interpreting Subsurface Utility Engineering and Survey data to create a utility base map on MicroStation representing quality level "B" locates and test hole data. This information has been used to identify utility conflicts. Ms. Green is also involved in the bidding process as a reviewer for the Letters of Interest.		<input checked="" type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eric Wilhjem, PSM	13. ROLE IN THIS CONTRACT Senior Project Surveyor	14. YEARS OF EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Land Surveying and Mapping, University of Florida, Gainesville, FL, 1997		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor and Mapper, FL # 5872	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT Maintenance of Traffic			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	FDOT District 6 – District-Wide Additional Highway System R/W Maps (Miami-Dade County, FL)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Wilhjem started this District wide contract as project surveyor and later became the project manager, completing 25 task work orders. The tasks ranged from stake out of guardrail to full design surveys with DTM's. In addition, it also includes some R/W Mapping. Control includes both horizontal and vertical control needed for the various tasks. He prepared the planning and adjusting of the GPS, the processing of EFB data or the adjusting the level runs, calculated the historic baseline of surveys and existing right of way, created and modified Geopak Tin files.		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	FDOT District 6 – US 27 (SR 25) (Broward County, FL)	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Wilhjem served as Project Manager and Surveyor of Record on this 4.83-mile project which ran from the Homestead Extension of the Florida Turnpike to the Broward/Miami-Dade County line. This project was a design survey with a DTM of the asphalt surface and cross-section of the ground shots. The survey task also included the calculations of the historic baseline of survey and historic centerline of construction as along with the existing right of way. Mr. Wilhjem planned the session and the processing and adjustment of the GPS data to set the primary and secondary control. In addition, he adjusted the 5.0-mile level run. Mr. Wilhjem processed and adjusted the EFB data for the creation of the topographic files and the Geopak tin file. In addition, he calculated the historic baseline, centerline of construction and existing right of way for this task. He was the signing surveyor on the Project Network Control Sheets.		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	FDOT District 4 – District-Wide Miscellaneous Survey & Mapping (Broward County, Florida)	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Wilhjem was the lead project surveyor for this district wide contract. This district-wide had over 77 task work orders. The range of tasks included from simple parcel stake-outs to full design surveys. Some of the larger tasks include design surveys for Glades Road, Griffin Road, S.R. A1A, 17th St. Causeway and two slip ramps on I-595/I-75. In addition, one of the bigger tasks was to calculate the historic baseline of survey for I-75 from the information surveyed by the District's in-house crews. Also, include finishing two right of way maps started by the District. Control includes both horizontal and vertical control needed for the various tasks. He prepared the planning and adjusting of the GPS, the processing of EFB data or the adjustment of the level runs, basic calculations of parcels to be staked, create and modify DTM, calculate historic baselines and existing right of way. In addition, he created some legal descriptions for drainage easements.		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	FDOT District 4 – I-595 Primary Control (Broward County, Florida)	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Wilhjem served as a project surveyor on this project to set the primary horizontal and primary secondary control for this 11.5-mile project. Mr. Wilhjem planned the session and the processing and adjustment of the GPS data for the Primary Horizontal Control. In addition, he adjusted the 14-mile level run to elevate the Primary Vertical Control.		<input type="checkbox"/> Check if project performed with current firm
e.	FDOT District 4 – I-75 & Griffin Road Interchange (Broward County, Florida)	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Wilhjem was the project surveyor as a sub-consultant to RJ Behar & Company, Inc. This project was for the urbanization of the interchange ramps at Griffin Road (S.R. 818) and Interstate 75 (S.R. 93). Mr. Wilhjem planned and adjusted the GPS sessions and adjusted the level run on both Griffin Road and I-75. He was the project surveyor for the DTM of soft areas. This design survey included drainage survey.		<input type="checkbox"/> Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Mossey, PSM	13. ROLE IN THIS CONTRACT Senior Project Surveyor	14. YEARS OF EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Maryville College, Maryville, Tennessee		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor & Mapper, Florida #5660	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Society of Professional Surveyors & Mappers, Secretary, Broward Chapter, FSMS			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	City of Fort Lauderdale General Services (Fort Lauderdale, Florida)	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As Survey Project Manager, Mr. Mossey prepared extensive Topographic Design Surveys for City of Ft. Lauderdale's Water Works 2011 Program for redevelopment of approximately 20-square miles of infrastructure in the City's utility expansion program. Projects included the Miami Road, Sewer Septic Areas 8, 3 and 4, Wastewater Treatment Plants and the Sistrunk Boulevard project.		
b.	Broward County Parks and Recreation Department General Surveying Consultant Services Contract (Broward County, Florida)	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As part Broward County's \$400 Million Bond Program, KEITH provided general surveying and mapping services to the County's Park and Recreation Department. As Survey Project Manager, Mr. Mossey prepared Boundary and Topographic surveys for multiple parks including CM Smith Park Aquatics Center, Central Broward Regional Park, Tradewinds Park, Quiet Waters Park and Driftwood.		
c.	City of Parkland Miscellaneous Planning & Engineering Services Contract (Parkland, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH has served as the General Planning and Engineering Consultant for the City of Parkland for over 11 years. KEITH is providing on-going continuing services as needed including general planning, engineering and surveying and mapping services to the municipality. Mr. Mossey serves as a Project Surveyor. Some projects provided under these contracts include GIS mapping of municipal street map, zoning maps and land use maps, and miscellaneous topographic and boundary surveys for various municipal design contracts.		
d.	City of Deerfield Beach & CRA Miscellaneous Engineering Services (Deerfield Beach, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH has been providing ongoing continuing General Engineering and Surveying and Mapping services to the municipality on an as needed basis for over fourteen years. Mr. Mossey serves as a Project Surveyor for the firm on an as needed basis. Some projects provided under these contracts include: Hillsboro Boulevard Beautification & Utility Improvement, Beach Dune Re-Nourishment Program, Ocean Way Improvement, and The Cove Shopping Center Drainage & Beatification Improvement.		
e.	City of Pompano Beach City and CRA General Engineering, Surveying and Mapping Services (Pompano Beach, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Through our continuing services contract, KEITH has provided surveying and mapping services for multiple parks and publics spaces within the City. As Survey Project Manager Mr. Mossey prepared Boundary and Topographic surveys, as well as sketches of description for Pompano Community Park, Highlands Park, Alsdorf Park, Rustic Bridge Park, Founders Park and Lovely Park.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eric Detassis	13. ROLE IN THIS CONTRACT Survey Technician	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION (City and State) KEITH, Pompano Beach			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS in Industrial Engineering, Florida State University, 2000		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FDOT Maintenance of Traffic, OSHA (Occupational Safety & Health Administration – 10 Hour Construction course, CXST Safety Awareness badge – On Track Safety course, OSHA Confined Space Entry, Port of Miami Security Access badge			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	The Wave Modern Streetcar Project (Fort Lauderdale, Florida)	On-going	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a Sub-Consultant to HDR Engineering, Inc., KEITH was tasked with providing Surveying and Subsurface Utility Engineering (SUE) services for this modern streetcar in Downtown Fort Lauderdale between Northwest 6th Street and Southeast 17th Street. The system would operate 5 modern streetcars in mixed traffic along existing roadways and would utilize transit signal priority. Surveying tasks included providing project control, aerial targets, topography/DTM, aerial clearances, drainage and sanitary details, recovery of property and right-of-way monumentation, boundary surveys, and survey support for the geotechnical operations.		
b.	FDOT District 4 – SE 3rd Avenue from SE 17th Street to Las Olas (Fort Lauderdale, Florida)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm KEITH is providing Survey, SUE and Landscape Architecture services as a sub-consultant to Protean Design Group on this MPO Bike and Pedestrian Project. The project entails adding bike lanes, new ADA ramps and drainage replacement to accommodate street modifications for ADA ramps and pedestrian crosswalks. Survey tasks include Horizontal Project Control, Vertical PC/Bench Line, Alignment and/or Existing R/W lines, setting aerial targets and reference points, Topography/DTM (3D), Panimetric (2D), Roadway Cross-Sections/Profiles, Outfall Survey, Drainage Survey, Bridge Survey, R/W Monumentation, Boundary Survey and sectional/Grant Survey.		
c.	FDOT District 4 - NW 19th Street – State Road 7 to State Road 845 (Fort Lauderdale, Florida)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Detassis is serving as Survey Technician on this 3-mile Bike Lane and Intersection Improvement Project. Survey includes cross sections at 500 foot intervals, DTM at intersections for Mast Arms and Drainage As-Built. This survey also includes an extensive survey to determine the existing alignment and right of way.		
d.	FDOT Turnpike – HEFT Widening from NW 106th Street to I-75	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a subconsultant, KEITH is providing surveying, and SUE, including utility coordination services. Survey tasks included Horizontal Control, Vertical Control, Right of way lines, setting aerial targets, Topography/DTM, cross sections, Drainage survey and Bridge survey.		
e.	Federal Highway (US-1) Beautification Project (Delray Beach, Florida)	2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Detasis served as the Survey Technician for this project that includes US-1 (Federal Highway) in Delray Beach from just South of S.E. 10th Street to just North of N.E. 8th Street. This project provides the design services necessary to decrease the current three-lane configuration of US-1 (Federal Highway) through the downtown area to a two-lane roadway with additional parking, walkways and landscaping. This project required KEITH to establish new control points throughout the project limits. KEITH also conducted a survey of over 220 drainage structures throughout the corridor. Finished floor elevations were measured on all structures within 25 feet of the right-of-way. A Topographic Survey was required for the engineering designs. This Topographic Survey collected all surface data within the right-of-way of US-1.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Todd Bates, PSM	13. ROLE IN THIS CONTRACT Project Surveyor	14. YEARS OF EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
KEITH, Pompano Beach, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
BS International Affairs - Economics, Florida State University, 1994 | **Registered Professional Surveyor & Mapper, Florida, #7165**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Bates has both field and office experience which includes varying aspects of FDOT and Florida Turnpike Enterprise route design surveys; municipal stormwater/wastewater/utility infrastructure mapping plans involving GIS and Survey; higher speed rail movable Bridge surveys involving LiDAR data acquisition; survey support for high-rise foundation deep drilling; LiDAR surveys and the Port Miami Tunnel project (both design and construction/drilling phase). Mr. Bates also created GIS/Survey client deliverables on a project related to the Federal Aviation Administration (FAA) Airport Survey and Mapping-GIS program and assisting with South Florida Water Management land survey projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	All Aboard Florida Higher Speed Rail (Fort Lauderdale, FL)	2013	Arial 9
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bates coordinated and supervised field work for various phases of the project along the pre-existing Florida East Coast Railway as well as design surveys for future tracks along State Road 528. He supervised all survey fieldwork for 3 major movable bridges which were scanned using High Definition Terrestrial LiDAR as well as providing field oversight for the related hydrographic depth soundings in the surrounding navigable waterways along the bridge base. Namely, The New River (370 feet); Loxahatchee, (770 feet), and the St. Lucie (1400 feet). Mr. Bates acted as a field crew supervisor for all survey data collection along portions of State Road 528 including control establishment and topographic survey services. He also coordinated and attended numerous meetings with railway officials and structural engineers to ensure that all data acquisition exceeded project safety standards and met the required.		
b.	City of Aventura Storm Water Survey Data Collection and GIS (Aventura, FL)	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bates served as the project Surveyor and Field Coordinator responsible for directing survey data collection. QA/QC, providing GIS services, LiDAR analysis, and assisting with general Project oversight. He gathered survey data collection, including topographical information of City owned and maintained storm water structures and pipelines including, but not limited to, manholes, junction boxes, culverts, headwalls, pipe ends, end walls, drop inlets, etc. Upon completion providing the City with an updated Geodata Base containing all features. The project also involved Aerial LiDAR to confirm existing ground elevations.		
c.	City of Fort Lauderdale Sewer Design Implementation Wastewater and Sewer Data Collection and Mapping Plan (Fort Lauderdale, FL)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bates served as the project Surveyor/ GIS Analyst assisting with project oversight for survey grade field data collections and GIS - Waste Water and Sanitary Sewer Mapping Plan to collect accurate elevations on specific sanitary sewer structures, water valves, and a Bench Mark control network control GIS for modeling and updating the City of Fort Lauderdale's geodatabase. The project area included the entire City of Ft. Lauderdale. He directly managed the pump station subtask and was responsible for all survey and GIS work in various capacities.		
d.	City of Fort Lauderdale Modeling and Design Implementation of Stormwater Master Plan (Fort Lauderdale, FL)	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bates served as the project Surveyor and Field Coordinator responsible for directing survey/GIS data collection. QA/QC, providing GIS services, LiDAR analysis, and assisting with general project oversight. He performed data collection of storm water infrastructure attributes needed to populate and complete an existing GIS and assist the City with the implementation of new asset management software including the development and implementation of a hydraulic/hydrological storm water model of the entire City.		
e.	FDOT District IV and VI – Miscellaneous Survey Contract (Various Counties, FL)	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Completed numerous projects for the District ranging from control surveys, right-of-way and baseline surveys, topographic surveys, aerial targets, cross sections of roadways and waterways. Mr. Bates performed and supervised various design surveys utilizing GNSS, Terrestrial LiDAR, Digital Levels, Electronic Field Book field software. He utilized LiDAR, GNSS, and conventional land surveying techniques to perform digital terrain modeling, subsurface utility locations (SUE), boundary determination, sewage infrastructure analysis, bridge details, control surveys, LiDAR field acquisition, and right-of way establishment. Mr. Bates also coordinated with multiple engineering disciplines and interested parties across functions to ensure all tasks were completed on-time and on budget.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT			
<i>(Complete one Section E for each key person.)</i>			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
Aracely Andollo-Soto	Chief Utility Coordination	a. TOTAL 22	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> KEITH, Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Florida International University, 1999		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Utility Coordination Certification, FUCC, 2014			

19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED		
FDOT D4 Districtwide Utility Coordination Production Support <i>(Broward County, Florida)</i>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
a. Ms. Andollo-Soto served as the Lead Utility Coordinator, supervising tasks including all phases of negotiation and relocation of electric, telecom/cable, water/sewer and gas/fuel utilities impacted by FDOT projects. She provides these services in accordance with FDOT's standards, policies and procedures; and is familiar with FDOT's utility agreements with vendors and utilities such as: Florida Power & Light Distribution, Transmission and FiberNet; Comcast, AT&T/Bellsouth, Verizon, Level 3 Communications, Qwest Communications, Sprint/Nextel, Broward County Water & Wastewater, etc.			
FDOT D6 SR-907 Alton Road Intersection of 5th, 10th, and 14th Street <i>(Miami Dade County, Florida)</i>	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
b. This 3-phase project (a strung project) was part of the overall lead reconstruction project of SR 907 (Alton Road) from 5th Street to Michigan Avenue). This project encompassed drainage improvements (including pump stations and bulkhead outfalls) with relocations for facilities owned by Florida Gas Transmission, TECO Peoples Gas, FP&L (Distribution) and City of Miami Beach. Ms. Andollo-Soto provided Utility Coordination for the District and worked with the aforementioned UAOs, in addition to coordinating with AT&T Florida, Atlantic Broadband and Verizon Business.			
FDOT D6 Utility Coordination Services for SR A1A Collins Avenue <i>(Miami Dade County, Florida)</i>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
c. KEITH was requested by the contract project manager to provide utility coordination services for FDOT project FM#440169-1-52-01. KEITH is responsible for providing utility coordination services for SR A1A (Collins Ave.) from Fountain St. to 17th St. for signalized intersection lighting (lighting retrofits at signalized intersections) to clear this project for utility certification.			
FDOT D6 SR 968 W Flagler Street from W 27th Avenue to W 27th to W 2nd Avenue <i>(Miami Dade County, Florida)</i>	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i>	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
d. This 3-phase project consists of roadway full reconstruction and extensive excavation for lighting, signalization and landscaping with relocations for facilities (including joint-use poles and duct banks). Ms. Andollo-Soto is providing Utility Coordination for the District and working with AT&T Florida, Comcast Cable, FP&L, FiberNet, MD-WASD, and TECO Peoples Gas.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED
Washington Street and SW 72 nd Mobility Improvements (Hollywood, FL)		PROFESSIONAL SERVICES On-going
		CONSTRUCTION (if applicable) N/A
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT District 4	b. POINT OF CONTACT NAME Raul Dominguez, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 954-777-4677
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size and cost)		



KEITH was selected by the Florida Department of Transportation for this design project that will add bicycle lanes and pedestrian improvements to each corridor. The KEITH team will provide roadway, drainage, signing and pavement marking, landscaping, survey, SUE, utility coordination, Geotech, and public involvement services to the Department for the project. This is a Broward County Metropolitan Planning Organization (MPO) funded project and FDOT District 4 is the client and project facilitator. Our team's extensive experience coordinating with multiple agencies and stakeholders are key to the successful completion of this project.

125. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	KEITH	Pompano Beach, FL	Engineering, Surveying, Subsurface Utility Engineering, Utility Coordination, Landscape Architecture, Geotech and Public Involvement

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (<i>City and State</i>)		22. YEAR COMPLETED
Old Town Streetscape & Parking Improvements (<i>Pompano Beach, FL</i>)		PROFESSIONAL SERVICES 2016
		CONSTRUCTION (<i>if applicable</i>) 2016
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Owner: City of Pompano Beach	Mr. Horacio Danovich, CIP Engineer	954.786.7834
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (<i>include scope, size and cost</i>)		

KEITH, as the Prime Consultant, assembled a multi-disciplinary team responsible for the overall team management, Engineering, Permitting, Planning, Surveying, Public Consensus and Construction Management for the Old Town Pompano Improvements, approximately 0.6 mile in roadway improvements. The Streetscape and Parking Improvements in Old Town were part of a larger endeavor to improve existing pedestrian connectivity to MLK Boulevard and the new Cultural Center near City Hall. The focal point was the construction of a European-style plaza which established a City Center within the Downtown. The Downtown plaza features a water fountain and a new concept known as "fire water," where a flame travels up a water column creating a dramatic effect. The CRA recognized that the reconfiguration of the on-street parking as part of the streetscape project in Old Town was necessary to create a pedestrian friendly environment and to attract retailers.

In addition to the Streetscape and Parking Improvements, KEITH also prepared engineering plans to improve the alley way behind Old Town, which is now known as Mullet Alley Plaza. This back alleyway was transformed by the vision of the CRA and the KEITH team into a destination for events and showcases year-round. KEITH designed the Hardscape/Paving Plans with special pavement patterns, in addition selected special pavement materials, ensure a smooth pedestrian surfaces with curbs and paving borders.



125. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	KEITH	Pompano Beach, FL	Civil Engineering, Permitting, Landscape Architecture and Construction Administration/Coordination

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">3</p>				
21. TITLE AND LOCATION <i>(City and State)</i> City of Hollywood Boulevard Heights Septic-to-Sewer Conversion (Hollywood, Florida)		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center;">2018</td> <td style="text-align: center;">On-going</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2018	On-going
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
2018	On-going					
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER				
City of Hollywood / EAC Consulting	Huntley Higgens, PE, PMP	305-264-2557				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>						



KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW 7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street.

Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME KEITH	(2) FIRM LOCATION <i>(City and State)</i> Pompano Beach, FL	(3) ROLE Civil Engineering and Surveying Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 4				
21. TITLE AND LOCATION (<i>City and State</i>) MLK Jr. Boulevard Streetscape Improvements from Powerline Rd to the Turnpike (<i>Pompano Beach, FL</i>)		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td>2017</td> <td>2017</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	2017	2017
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)					
2017	2017					
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER City of Pompano Beach CRA	b. POINT OF CONTACT NAME Mr. Horacio Danovich, CIP	c. POINT OF CONTACT TELEPHONE NUMBER 954-786-7834				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (<i>include scope, size and cost</i>)						

KEITH was selected to provide professional engineering design and related services to the City of Pompano Beach and the Pompano Beach CRA for roadway improvements along Martin Luther King Jr. Boulevard (aka Hammondville Road) between NW 31st Avenue (Turnpike Ramp) and Powerline Rd (S.R. 845) in accordance with the Phase II "Educational Corridor" improvements.

The roadway improvements include incorporating new sidewalks, dedicated bicycle lanes and roadside swales along both sides of the roadway, roadway milling and resurfacing (with some widening), miscellaneous safety improvements and some lane reconfigurations, new landscape medians and other landscape enhancements, decorative street lighting, utility coordination for relocations/adjustments, overall drainage and roadway improvements. The scope of services for this project includes: Surveying, Utility Locating Subsurface Utility Engineering (SUE), Utility Coordination, Engineering, Inspection, Permitting, and Construction Document preparation.



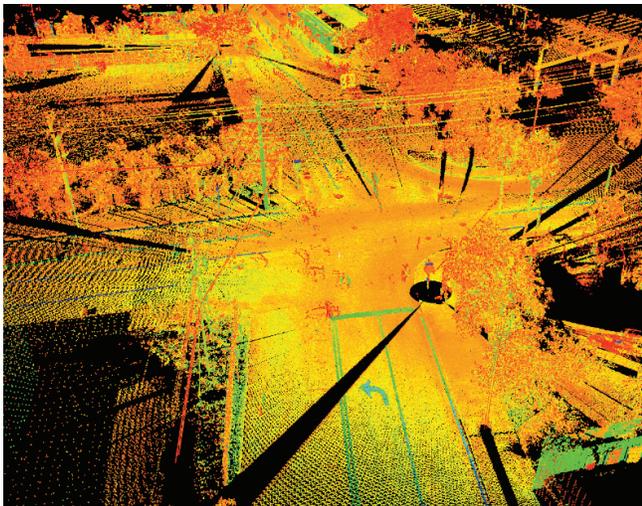
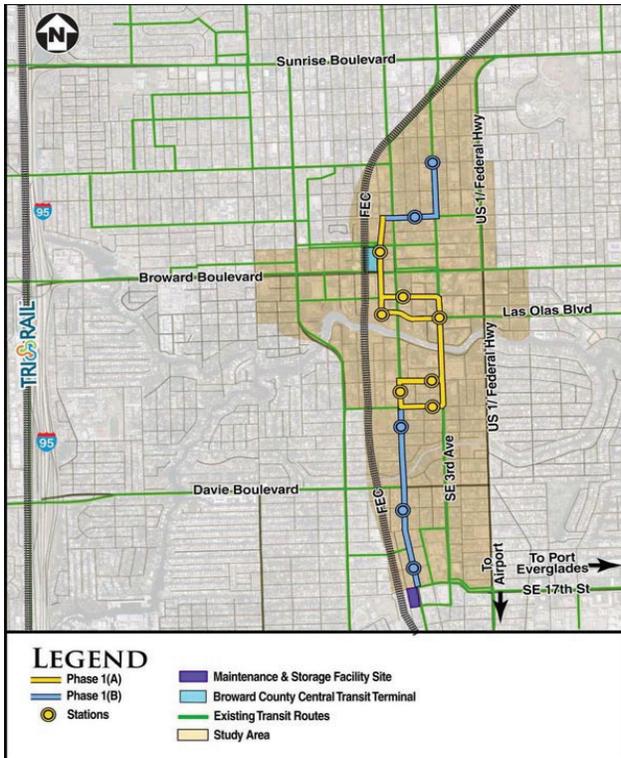
In addition to processing multiple permit and plan approvals through the many jurisdictions having interest in the project, KEITH was instrumental in assisting the City with securing grants to help fund the project and also satisfying the many commitments associated with these. One said funding source was the Florida Department of Transportation (FDOT) contributing through Local Agency Project (LAP) monies for the construction of the sidewalks along Martin Luther King Jr. Boulevard. The roadway corridor is not within FDOT's jurisdiction but since a portion of the funding is from their LAP program the entire project was required to meet FDOT's design standards and construction document review procedures.

125. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	KEITH	Pompano Beach, FL	Engineering, Surveying, Subsurface Utility Engineering, and Permitting

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) The Wave Modern Streetcar (Fort Lauderdale, Florida)		22. YEAR COMPLETED PROFESSIONAL SERVICES: On-going CONSTRUCTION (if applicable): N/A
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER HDR Engineering (Prime Consultant)	b. POINT OF CONTACT NAME Joe Borello	c. POINT OF CONTACT TELEPHONE NUMBER (954) 299-4951
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		

The South Florida Regional Transportation Authority (SFRTA) and the Florida Department of Transportation (FDOT) developed this project. As a Sub-Consultant to HDR Engineering, Inc., KEITH was tasked with providing Surveying and Subsurface Utility Engineering (SUE) services for this modern streetcar in Downtown Fort Lauderdale between Northwest 6th Street and Southeast 17th Street. The system would operate 5 modern streetcars through 2.7 miles in mixed traffic along existing roadways and would utilize transit signal priority.

Surveying services included project control, aerial targets, topography/DTM, aerial clearances, drainage and sanitary details, recovery of property and right-of-way monumentation, boundary surveys, and survey support for the geotechnical operations. SUE services included providing designation, location and mapping of existing subsurface utilities; utility designation of all known tone-able and non-tone able utilities within the apparent right of way of the Phase 1A Streetcar limits. Up to 44 locations (test holes) were utilized to verify radar data and designations.



3D Laser Scan Image of Roadway

In addition to the surveying and SUE, laser scanning was done to obtain the Digital Terrain Model (DTM) of the pavement surface to assist the engineers in developing the proposed track and track bed designs. This laser scanning ground data was incorporated with the subsurface work to allow the designers to design the track and track bed without impacting existing utilities. As a complement to the laser scanning of the ground surface, the design team was able to utilize the existing overhead information for the adjacent powerlines to place the Operational Contact System poles to avoid conflicts with existing FPL, AT&T and Comcast facilities.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME KEITH	(2) FIRM LOCATION (City and State) Pompano Beach, FL	(3) ROLE Surveying, SUE, Laser Scanning

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER
			4 6
21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Pompano Beach Boulevard Streetscape (Pompano Beach, Florida)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2013	2013
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Pompano Beach	Mr. Horacio Danovich, CRA Engineer	954-786-7834	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>The Pompano Beach Boulevard Streetscape project included the redesign of Pompano Beach Boulevard roadways, median and pedestrian pathways adjacent to Pompano Beach, south of the pier to Atlantic Boulevard, including a signature plaza at the end of Atlantic Boulevard, and North to NE 5th Street. Because much of the project was located seaward of the Coastal Construction Control Line, the design required extensive hydrographic and topographic survey in accordance with the requirements of the Florida Department of Transportation Environmental Protection-Division of Beaches and Shores as set forth in Section 62B-33.0081.</p> <p>KEITH was responsible for Civil Engineering Design and Surveying for the development of a unique beach front venue including enhancement of roadway and on-street parking pedestrian streetscape/landscape, drainage improvements, relocation, utility infrastructure along Pompano Beach Blvd and underground of overhead Utilities from Atlantic Boulevard to NE 5th Street.</p> <p>This South Florida project is a recipient of a 2013 Award of Honor by FASLA (Florida ASLA).</p>			
			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	KEITH	Pompano Beach, FL	Civil Engineering, Surveying, Subsurface Utility Engineering

STANDARD FORM 330 (REV. 8/2016)

<p>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i></p>		<p>20. EXAMPLE PROJECT KEY NUMBER</p> <p style="text-align: center;">7</p>						
<p>21. TITLE AND LOCATION <i>(City and State)</i></p> <p><i>Miscellaneous Engineering, Planning and Surveying Services for the City of Parkland (Parkland, Florida)</i></p>		<p>22. YEAR COMPLETED</p> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td style="text-align: center;">On-going</td> <td style="text-align: center;">On-going</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	On-going	On-going		
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>							
On-going	On-going							
<p>23. PROJECT OWNER'S INFORMATION</p>								
<p>a. PROJECT OWNER</p> <p>City of Parkland</p>	<p>b. POINT OF CONTACT NAME</p> <p>Mr. Sowande Johnson, P.E.; City Engineer</p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER</p> <p>(954) 757-4144</p>						
<p>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i></p>								
<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 20px;"> <p>City of Parkland Continuing Professional Engineering, Planning and Surveying Services Contract Contract Awarded 2007 – On-Going</p> <p>KEITH is currently providing general engineering, planning and surveying and mapping services to the municipality on an as needed basis on these on-going continuing services contracts. Some projects provided under these contracts include:</p> <ul style="list-style-type: none"> • Pine Trails Park Wetland Mitigation Area • Municipal Land Use Map Amendment • 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 Sketch • Holmberg Road Sidewalk Improvements • Holmberg Road Roadway Improvements • Citywide Traffic Study • Update City of Parkland Maps • Pine Trails Park Roadway & Utility Improvements • Land Use Map Update & Text Amendment • Lox Road Lighting Photometric Plan </div> </div>								
<p>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</p>								
<p>a.</p>	<table border="1"> <tr> <td>(1) FIRM NAME</td> <td>(2) FIRM LOCATION <i>(City and State)</i></td> <td>(3) ROLE</td> </tr> <tr> <td>KEITH</td> <td>Pompano Beach, FL</td> <td>Engineering, Planning and Surveying</td> </tr> </table>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	KEITH	Pompano Beach, FL	Engineering, Planning and Surveying	
(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE						
KEITH	Pompano Beach, FL	Engineering, Planning and Surveying						

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER	
		8	
21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Federal Highway (US-1) Beautification Project (Delray Beach, Florida)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2012	2015
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Delray Beach	Randal L. Krejcarek, PE., LEED AP	(561) 243-7322	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			

Federal Highway (US-1) Beautification Project, Delray Beach, FL

The City of Delray Beach is in the process of revitalizing the downtown area; The Federal Highway Beautification, Phase I is a portion of this city-wide revitalization. The project includes US-1 (Federal Highway) in Delray Beach from just south of S.E. 10th Street to just north of N.E. 8th Street. Currently, this area contains many blighted and vacant parcels of land. Many of the businesses that exist in this corridor have sub-standard parking. This project provides the design services necessary to decrease the current three-lane configuration of US-1 (Federal Highway) through the downtown area to a two-lane roadway with additional parking, walkways and landscaping.

KEITH served as the Design Surveyor for this project. This project required KEITH to establish new control points throughout the project limits. An extensive search for baseline control, right-of-way monumentation and property corners was conducted. This research aided in recreating the historical baseline of US-1. KEITH also conducted a survey of over 220 drainage structures throughout the corridor. Finished floor elevations were measured on all structures within 25 feet of the right-of-way.

A Topographic Survey was required for the engineering designs. This Topographic Survey collected all surface data within the right-of-way of US-1. This topographic data was then used to create a Digital Terrain Model (DTM) of the entire project area. The DTM was then used by a Geotechnical Boring firm to estimate the surface elevations of their borings. The DTM was also used by the Design Engineers to develop cross sections of the existing roadway. Subsurface utilities were identified by field designation methods and Vacuum Excavation, as necessary for further verification and identification.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	KEITH	Pompano Beach, FL	Surveying and SUE Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER
			9
21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Margate Community Redevelopment Agency (CRA) General Engineering Consulting Services (Margate, Florida)		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2016	On-going
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
Margate CRA	Kim Vasquez, Project Manager	(954) 935-5324	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
 <p>Margate Community Redevelopment Agency (CRA) General Engineering Consulting Services Contract Awarded 2015 – On-Going</p> <p>KEITH is currently providing general engineering, surveying and mapping, planning and landscape architecture services to the CRA on an as needed basis. Some projects provided under this contract include:</p> <ul style="list-style-type: none"> • Winfield Boulevard Traffic Calming and Streetscape Improvements <ul style="list-style-type: none"> ○ Traffic calming measures and streetscape improvements for the corridor of Winfield Boulevard from SR-7 to NW 64th Terrace. Approximately 3,000 LF of local roadway. KEITH was responsible for various tasks including a comprehensive route survey, which will serve as the basis for developing construction documents. Our surveyors prepared a topographic survey to acquire the necessary design survey elements for the development of construction documents along Winfield Boulevard. • Colonial Drive Traffic Calming, Pedestrian Routing and Streetscape Improvements – Phase 1 <ul style="list-style-type: none"> ○ Phase 1 of traffic calming, pedestrian routing and streetscape improvements containing approximately 500 LF of Local Roadway. KEITH's project surveyors were tasked with performing a topographic survey of the location to obtain the required design survey elements for the development and construction documents along Colonial Drive for the limits of the project. The topographic survey served as the base for developing construction documents. 			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	KEITH	Pompano Beach, FL	Civil Engineering, Planning, Surveying, Landscape Architecture

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER
			10
21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
<i>City of Fort Lauderdale Miscellaneous Surveying and Mapping Projects (Fort Lauderdale, Florida)</i>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		2013	N/A
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Fort Lauderdale	Mr. Michael Donaldson, PSM, City Surveyor	(954) 828-5052	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<div style="display: flex; align-items: flex-start;">  <div> <p>City of Fort Lauderdale City of Fort Lauderdale Miscellaneous Surveying and Mapping Projects Contract Awarded 2007 – 2013</p> </div> </div> <p>KEITH provided general surveying and mapping services to the municipality on an as needed basis on this ongoing continuing services contract. Some projects provided under these contracts include:</p> <ul style="list-style-type: none"> • NE 27th Street ADA Parking Lot Topographic Design Surveys • ADA Compliance Design Surveys for Eisenhower Blvd and SE 17th Street, Las Olas Circle, Birch Road, SE 4th Street, SE 16th Avenue and SE 15th Avenue, and NW 4th Andrews Avenue to NW 1st Avenue • Peele Dixie Water Treatment Plant Engineering Design Surveys, Boundary and Topographic Surveys • SE 15th Street Boat Ramp Boundary Surveys • Hortt Elementary School ALTA/ACSM Land Title Survey • Mills Pond Park Boundary Survey • Croissant Park Athletic Field Staking and Final As-Built Sketch for the City's records • River Oaks (Lauderdale Marine Center) Specific Purpose Survey & Sketch and Design • South Middle River Park Boundary Survey • Fort Lauderdale Executive Airport (FXE) Taxiway Golf Relocation FAA Survey Submittal Assistance • 17th Street Causeway Service Road Utility Designation and Mapping • River Oaks Preserve Topographic Survey 			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	KEITH	Pompano Beach, FL	Misc. Surveying Services

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 12)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)										
		1	2	3	4	5	6	7	8	9	10	
Dodie Keith Lazowick, PLS	Principal-in-Charge / QA/QC Officer	X	X	X	X	X	X	X	X	X	X	x
Lee Powers, PSM	Project Manager	X	X	X	X	X	X			X	X	x
Dan Checchia	SUE / Utility Coordination Manager	X	X	X	X	X	X	X		X	X	X
Mark Mitchell	SUE Project Manager	X	X	X	X	X	X		X	X	X	X
Sean Marshall	Project Surveyor / Safety Manager	X	X	X	X	X	X	x				X
Sean Halsey	SUE Project Manager	X		X	X	X	X	X				X
Rebecca Green	Utility Coordinator	X	X	X	X	X	X	X	X			X
Eric Wilhjem, PSM	Senior Project Surveyor			X	X	X	X	X				
Mike Mossey, PSM	Senior Project Surveyor	X			X	X	X					X
Eric Detassis	Survey Technician	X	X		X	X	X					X
Todd Bates, PSM	Project Surveyor	X	X		X	X	X					X
Aracely Andollo-Soto	Utility Coordination Manager	X			X	X						x
Stephen Williams	Client Service Manager				X	X	X			X		x

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Washington Street and SW 72 nd Mobility Improvements	6	Pompano Beach Boulevard Streetscape
2	Old Town Streetscape & Parking Improvements	7	Miscellaneous Engineering, Planning and Surveying Services for the City of Parkland
3	City of Hollywood Boulevard Heights Septic-to-Sewer Conversion	8	US 1 Beautification Project, Delray
4	MLK Jr. Boulevard Streetscape Improvements from Powerline Road to the Florida Turnpike	9	Margate Community Redevelopment Agency (CRA) General Engineering Consulting Services
5	The Wave Modern Streetcar	10	City of Fort Lauderdale Misc. Surveying and Mapping Projects

H. ADDITIONAL INFORMATION

KEITH is a woman-owned, multi-disciplined firm comprised of a qualified team of professionals that will work collaboratively with stakeholders to meet the City's goals, budget and timeframe for this contract. The firm was founded on the principal of achieving success by combining the latest technology with client-oriented business practices and a staff of experienced and talented professionals. With a longstanding history as one of the senior consulting firms in Broward County, KEITH is committed to exceeding the City's expectations for this contract.

The firm's civil engineering, CEI, surveying, planning, landscape architecture and construction management team of experts has extensive past and ongoing experience with both large-scale private and public sector projects. Our staff combines the technical work experience of over 170 professionals, each with an extensive working knowledge of local and regional projects. This convergence of experience has resulted in the development of a tremendous database of knowledge and information concerning local, past and ongoing projects, which is an invaluable asset to any company.

KEITH understands the importance of community involvement and the necessity of working with local, state, and federal agencies in a hands-on cooperative manner to build consensus and receive subsequent approval of highly sensitive projects. This approach represents an underlying philosophy of the firm which results in a quality product, with emphasis on scheduling and cost effectiveness through team oriented management and quality control. The professionals at KEITH continue to take great pride in the success of their undertakings. We look forward to the opportunity to provide you professional services.

FDOT WORK GROUPS 3, 8, 10, 13, 15 - KEITH is certified with the Florida Department of Transportation in

- ▶ 3.1 Minor Highway Design
- ▶ 3.2 Major Highway Design
- ▶ 8.1 Control Surveying
- ▶ 8.2 Design, Right of Way & Construction Surveying
- ▶ 8.4 Right of Way Mapping
- ▶ 10.1 Roadway Construction Engineering Inspection
- ▶ 13.6 Land Planning/Engineering
- ▶ 15.0 Landscape Architecture

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



The firm maintains ten full-time field crews to provide for our clients on an as-needed basis. Our staff is using the latest 3D laser scanning technology. Our entire field staff has received Maintenance of Traffic (M.O.T.) Safety Training currently required by the Florida Department of Transportation for work within public roadways. KEITH is also in full compliance with the current School Board Security Clearance Policies of finger printing and successful background checks in accordance with the State of Florida Jessica Lunsford Act for school access by workforce personnel. We understand the importance of these security requirements and are in 100% compliance for the safety of our staff and the public.

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

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

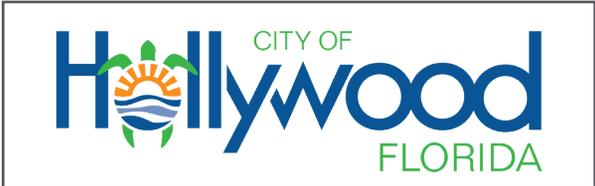
I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE
Alex Lazowick

32. DATE
August 27, 2019

33. NAME AND TITLE
Alex Lazowick, PE, PMP Executive Vice President



**CLIENT SERVICE
MANAGER**

Stephen Williams, PE

**CONTRACT / PROJECT
MANAGER**

Lee Powers, PSM

**QA/QC
MANAGER**

Dodie Keith-Lazowick, PSM

**SUBSURFACE UTILITY
ENGINEERING**

- Daniel Checchia
Vice President of Location Services
- Mark Mitchell
SUE Project Manager
- Sean Halsey
SUE Project Manager
- Aracely Andollo-Soto
Utility Coordination Manager
- Rebecca Green
Utility Coordinator

SURVEY

- Lee Powers, PSM
Director of Surveying & Mapping
- Sean Marshall
Project Surveyor / Safety Manager
- Eric Wilhelm, PSM
Senior Project Surveyor
- Michael Mossey, PSM
Senior Project Surveyor
- Todd Bates, PSM
Project Surveyor
- Eric Detassis
Survey Technician

TAB 5

PROFILE OF

CONSULTANT

 *Engineering Inspired Design.*



FIRM OVERVIEW

KEITH, a local firm, was incorporated in 1998 by one surveyor, Mr. William “Bill” Keith, founded on the principles of his personal commitment to the improvement and well-planned development of Florida communities. Ms. Dodie Keith-Lazowick, PLS succeeds her father as a second-generation Surveyor and President of the firm. She is a lifetime resident of Broward County and former 35-year resident of Parkland, promotes a corporate philosophy that embraces higher quality professional standards for all services provided. Her hands-on approach emphasizes the firm’s commitment to quality, service and exceeding client expectations.



As we look to the future, Dodie’s son Alex Lazowick, PE, PMP, serves as the Executive Vice President and third generation professional at KEITH. Committed to the values his grandfather and mother have installed in the firm, Alex will lead KEITH in consistent hands from growth to evolution advancing and anticipating the needs for the next generation of development.

KEITH has long been recognized as a veteran firm within South Florida and recently been named as a top 20 firm in the state as a woman-owned business. KEITH’s professional and technical staff combines the work experience of over 160 professional and technical members, each with the extensive working knowledge of local and regional projects spanning many decades. As we’ve grown, so has our focus. KEITH now offers a full range services and incorporates the latest technology innovation from each of our five office locations. This contract will be serviced from our headquarters office in Pompano Beach, just a short 18 miles from your City Hall.

OFFICE LOCATIONS

Corporate Office

301 E Atlantic Blvd
Pompano Beach, FL 33060

Miami-Dade County

5805 Blue Lagoon Drive
Suite 218
Miami, FL 33126

Broward County

2312 S Andrews Ave
Fort Lauderdale, FL 33316

Orange County

2948 E Livingston Street
Suite 100
Orlando, FL 32803

Palm Beach County

120 N Federal Hwy
Suite 208
Lake Worth, FL 33460

KEITH has been proudly serving Broward County with the following services for over 21 years:

LOCATION SERVICES (Survey, SUE, Utility Coordination)

- Boundary/Alta Surveys
- Topographic Surveys
- Legal Descriptions
- As-Built/Record Surveys
- Right-of-Way Mapping
- Expert Witness Testimony
- Platting
- Tree Surveys
- Cross-Sections and Profiles
- Control Surveys
- Wetland/Mitigation Surveys
- Construction Surveys
- Engineering Design Surveys
- Drainage Surveys
- Global Positioning Systems (GPS)
- Differential Leveling
- Construction Surveys
- Utility Coordination
- Geographic Information System (GIS)
- Monumentation Of Right-Of-Way
- Digital Terrain Models (DTM)
- Hydrographic/Bathymetric Surveys
- Photometric Control Surveys
- Geophysical Investigations
- Non-Destructive Vacuum Excavation
- 3D Laser Scanning
- Multi-Channel Ground Penetrating Radar (MCGPR)
- 3D Underground Mapping and Concrete Imaging



CIVIL ENGINEERING SERVICES

Site Plans

- Site Investigation and Engineering Due Diligence
- Preliminary Engineering (DRC Site Plan Approval)
- Site Plan Layout Design
- Parking Lot Design
- Signing and Pavement Markings
- Traffic Circulation Analysis
- Turning Movement Analysis
- Demolition Plans
- Value Engineering
- Erosion and Sedimentation Control Plans

Paving/Grading

- Pavement Design and Analysis
- Grading and Drainage Design
- Driveway Connections and Turn Lanes

Stormwater Management/Drainage

- Stormwater Infrastructure Design
- Master Stormwater Modeling
- 5-Year Drainage Certifications

Water Distribution and Sanitary Sewer

- Domestic Water Infrastructure Design
- Wastewater Infrastructure Design
- Pump Stations
- Master Water/Wastewater Modeling

Permitting

Airports/Aviation

- Aviation Geometry Design
- Aviation Pavement Design



TRANSPORTATION ENGINEERING SERVICES

- Roadway Design
- Drainage Design
- Maintenance of Traffic
- Constructibility Review
- Construction Inspection
- Signalization, Signing and Marking Plans
- Parking Lot Designs
- Site Circulation and Roadway Designs
- Traffic Impact Studies
- Intersection Warrant Studies
- Parking and Safety Studies
- Crash Analyses and Diagrams
- Highway Capacity Software (HCS) Analyses
- Trip Generation Reports
- Roadway Compliance Reports
- Land-Use Amendments
- Traffic Control Agreements



PLANNING AND LANDSCAPE ARCHITECTURE SERVICES

- Site Due Diligence and Analysis
- Master Planning, Urban Design and Site Design
- Hardscape, Paving and Fine Grading Design
- Pool/Water and Specialty Feature Design
- Landscape and Irrigation Design
- Pedestrian and Site Lighting/Photometrics
- Platting and Plat Note Amendment
- Rezoning and Land Use Amendment
- Conditional Use Permit
- Right-of-Way Vacation
- Site Plan Approval Processing and Agency Coordination
- Certified Arborist Review and Appraisal



CONSTRUCTION/PROGRAM MANAGEMENT SERVICES

- Bid Evaluation
- Construction Administration and Management
- Consultant/Contractor/Materials Testing Coordination
- Agency Coordination Including MOT
- Project Controls Utilizing the County's Records System for Financial Reporting and Project Record keeping with Strict Adherence to County Policy
- Estimating and Scheduling
- Oversee Daily Job Site Activities with Supervisors, Engineers and Inspections as needed
- Quality Assurance
- Safety and Risk Management
- Oversight of Permitting and Inspections
- Coordinate all Temporary Badges, Visitor Passes, Escort Rated Badges, Badge Renewals, Vehicle Decals, Airside Driver Endorsement and any other Required Security Issues
- Review and Approve all Pay Applications
- Guide with County Contract Delivery Methods such as CM@Risk, Fixed Bid, Unit Price and Design/Build
- Assist with all Environmental Standards, FAA Rules and Regulations and State and Federal DOTs
- Advise on and Comply with all Security Policies
- Contract Close-Out Certifications



THE KEITH LEADERSHIP TEAM



Client Service Manager
Stephen Williams, PE

Vice President of Civil Engineering, KEITH

Mr. Stephen Williams has been engaged in civil and transportation engineering design and construction in South Florida since 1970. Mr. Williams has served as the record engineer for numerous transportation, utility, water management, municipal, aviation, recreation, roadway and land development (governmental, residential, mixed-use and commercial) projects in South Florida. These include projects at Florida’s Turnpike, Miami International and Fort Lauderdale-Hollywood International Airports and multiple projects for the local municipalities, school districts and universities. Projects have included roadway and site engineering design and analysis (paving, grading, drainage, water and sanitary sewer design and construction administration) for both private and governmental clients. He currently serves as the Contract Manager to the Town of Southwest Ranches for KEITH’s Continuing Contract for Professional Engineering Services, as well as a general municipal civil engineering consultant to cities of Parkland, Oakland Park, Miramar, Plantation, Fort Lauderdale, Sunrise, Pompano Beach and Tamarac throughout his career.



QA/QC Officer
Dodie Keith-Lazowick, PLS

President, KEITH

Ms. Dodie Keith-Lazowick, PLS with over 41 years of professional experience, will serve as the Contract/Project Manager for this contract, assuming responsibility for providing sufficient resource allocations and corporate commitment to the Town of Southwest Ranches. She succeeds her father, Bill Keith, as a second-generation professional surveyor, President and Managing Principal of the firm. By continuing the civic philosophy and commitment to professional excellence, the firm has grown to over 130 qualified staff members and services South Florida as a whole from our five centers of operations. Her extensive experience in South Florida has encompassed many phases of planning, design and construction including Civil Engineering, Surveying and Mapping, Comprehensive Land Planning, Landscape Architecture, Subsurface Utility Locations and Utility Coordination, and Construction Management. As a Professional Surveyor and Mapper, she has been responsible for route/right-of-way, boundary, construction, topographic, and geodetic control surveys for transportation projects, electric transmission lines, commercial and residential developments.



Project Manager
Lee Powers, PSM

Director of Surveying & Mapping, KEITH

Mr. Lee Powers has over 14 years of experience in land surveying and mapping in South Florida. He has worked with many local municipalities and government agencies to create and/or modernize their GIS Systems. He has also performed construction, right-of-way, control, ALTA, boundary, as-built and topographic (both acreage and coastal) surveys. He has extensive laser scanning experience with a particular emphasis on architectural modeling, historical preservation and infrastructure monitoring. He is well-versed in the scan-to-model work flow. He coordinates our BIM/VDC staff to ensure a quality and accurate model. Mr. Powers has extensive Project Management experience for large-scale projects and continuing service type contracts for both public and private sector clients. He is knowledgeable in the use of a wide range of state-of-the-art surveying equipment and associated computer technologies. He has extensive experience in field crew supervision, quality control and client relations.

HOW KEITH BENEFITS THE CITY OF HOLLYWOOD

Our staff combines the technical experience of a diverse pool of professionals with an extensive working knowledge of local and regional projects, emphasizing on governmental land development and re-purposing projects. KEITH is well-equipped to provide surveying and mapping services to the CRA for neighborhood lighting and streetscape enhancement. We have successfully completed work on various streetscape, neighborhood and roadway improvement projects, drainage projects, trails, park improvements, municipal building improvements, and traffic and transportation improvement projects. KEITH is also honored to have worked in and for the City of Hollywood for over 5 years, so we are fully aware of the standards and procedures the City expects from each work authorization.

The KEITH Team has the blend of experiences to handle every aspect of the projects' needs from start to finish. KEITH currently employs over 160 full-time staff members of whom 50 are surveying and mapping related personnel. *We will dedicate a minimum of two (2) crews for this contract to work exclusively on this important City contract. These crews will have at least two (2) individuals trained in first aid and one (1) with staff member trained in confined space, trench safety and general job site safety.*

Our current percentage of active survey work compared to all the other services we provide is 40% and we've consistently performed at this level of activity, giving us the ability to adjust our crews based on the demand. Another benefiting factor that most firms do not have are our hybrid crews. Our hybrid crews are cross-trained to have both survey and utility experienced personnel on each crew allowing us to expand crews if necessary. Every crew can perform multiple tasks such as survey, GPS and utilities services. KEITH is also able to provide all the services the City needs in-house, under one roof. Things are done faster and efficiently.

Our total completed projects for last year was over 200 survey and mapping related assignments. Those projects ranged from sketch and legal description surveys, to flood certificates for two major transportation projects such as the I-95 Express Lanes and the Fort Lauderdale-Hollywood International Airport (FLL) South Runway tunnel. Our team utilizes technologies both in the field and in the office to verify accuracy of existing features through our 3D Scanning, Survey and SUE capabilities. We are well equipped with technology and personnel to tackle any small, medium or large survey the town may require.

An example of our efficiency is our standard turnaround time for the following surveying services:

- Sketch and Legal Description Survey for a one-acre property: 7-10 days
- Sketch and Legal Description Survey for one mile of road/Right-of-Way: 10-14 days
- Location Survey: 10-14 days
- Topographic Survey: 10-14 days
- Site Planning Survey: 10-14 days
- Subdivision Survey: 10-14 days
- Construction Survey: Next business day

Our surveying and mapping personnel have previous project experience with the City of Hollywood, having provided surveying and mapping, engineering and landscape architecture / planning services over the past 5 years as both a prime and a subconsultant. Previous assignments completed by our team members and provided on similar consulting services contracts included numerous construction layout, boundary surveys, preparation of sketches and legal descriptions, mapping, AutoCAD drafting, calculations and others like boundary and topographic surveys, horizontal and vertical geodetic control surveys, right-of-way mapping and right of way surveys, parcel and right of way stakeout, digital terrain models (DTM), maintenance mapping, parcel sketches and GIS services.

PAST PERFORMANCE EXPERIENCE

The KEITH Team has a blend of experiences to handle every aspect of the Surveying and Mapping projects needs from start to finish. Some of the team’s collective experience is included below for review and consideration.



Washington Street and SW 72nd Mobility Improvements

Project Location: Hollywood, FL
 Contract Dates: 2018
 Reference: Raul Dominguez Phone: 954-777-4677

Project Description - KEITH was selected by the Florida Department of Transportation for this design project that will add bicycle lanes and pedestrian improvements to each corridor. The KEITH team will provide roadway, drainage, signing and pavement marking, landscaping, survey, SUE, utility coordination, Geotech, and public involvement services to the Department for the project. This is a Broward County Metropolitan Planning Organization (MPO funded project and FDOT District 4 is the client and project facilitator. Our team’s extensive experience coordinating with multiple agencies and stakeholders are key factors for the successful completion of this project.



MLK Jr. Boulevard Streetscape Improvements

Project Location: Pompano Beach, FL
 Completion Date: 2017
 Reference: Horacio Danovich Phone: 954-786-7834

Project Description - KEITH was selected to provide professional engineering design and related services to the City of Pompano Beach and the Pompano Beach CRA for roadway improvements along Martin Luther King Jr. Boulevard (aka Hammondville Road) between NW 31st Avenue (Turnpike Ramp) and Powerline Rd (S.R 845) in accordance with the Phase II “Educational Corridor” improvements. The roadway improvements include incorporating new sidewalks, dedicated bicycle lanes and roadside swales along both sides of the roadway, roadway milling and resurfacing (with some widening), miscellaneous safety improvements and some lane reconfigurations, new landscape medians and other landscape enhancements, decorative street lighting, utility coordination for relocations/adjustments, overall drainage and roadway improvements. The scope of services for this project includes: Surveying, Utility Locating Subsurface Utility Engineering (SUE), Utility Coordination, Engineering, Inspection, Permitting, and Construction Document preparation.



Old Town Streetscape and Parking Improvements

Project Location: Pompano Beach, FL
 Completion Date: 2017
 Reference: Horacio Danovich Phone: 954-786-7834

Project Description - KEITH as the Prime Consultant, assembled a multi-disciplinary team responsible for the overall team management, Engineering, Permitting, Planning, Surveying, Public Consensus and Construction Management for the Old Town Pompano Improvements, approximately 0.6 mile in roadway improvements. The Streetscape and Parking Improvements in Old Town were part of a larger endeavor to improve existing pedestrian connectivity to MLK Boulevard and the new Cultural Center near City Hall. The focal point was the construction of a European-style plaza which established a City Center within the Downtown. The Downtown plaza features a water fountain and a new concept known as “fire water,” where a flame travels up a water column creating a dramatic effect.



City of Hollywood Boulevard Heights Septic-to-Sewer Conversion

Project Location: Hollywood, FL

Contract Dates: 2018 - Ongoing

Reference: Huntley Higgins, PE, PMP

Phone: 305-264-2557

Project Description - KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW 7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street. Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.



City of Pompano Beach CRA Continuous Misc. Surveying Services

Project Location: Pompano Beach, FL

Contract Dates: 2002 - Ongoing

Reference: Horacio Danovich

Phone: 954-786-7834

Project Description - KEITH is currently providing general surveying and mapping services to the City of Pompano Beach on an as-needed basis. Projects under this contract include: MLK Jr. Boulevard Study and Boundary Survey, MLK Jr. Boulevard Planning and Design, FEC Railroad Right-of-Way Study, Municipal Pier Restaurant Redevelopment, MLK Jr. Boulevard Street Vacation Services, Pompano Beach Boulevard Streetscape and Dune Revitalization, East Atlantic Boulevard/Pompano Beach Boulevard Surveys, Old Pompano Area Design Survey, NW CRA Update Boundary Survey to Design Survey, among many others.



FDOT District IV Districtwide Survey Services and Production Support Continuing Contract

Project Location: FDOT District IV

Completion Date: 2010-2015

Reference: Jeff Smith

Phone: 954-757-4144

Project Description - KEITH provided general surveying and mapping services including SE 17th Street / A1A and SE 15th Avenue Intersection , SR 818 Griffin Road and SR 7 US 441 Intersection Improvements, SR 816 Oakland Park Boulevard from East of 31st Avenue to East of I-95, Juanita Avenue Bridge Replacement, I-95 Visual Barrier Wall Martin County, among others.

KEITH – 5 Year Concurrent Project List History

02052.07 Health Center	07282.52 Bishop's Pit - QA Services	07958.23 FLL T2 Bumpouts
02052.14 JKV Additional Parking	07282.53 Lox Road Sidewalk Ext	07963.03 Sheltair Ramp Expansion
02052.20 JKV Master Stormwater Mgmt Plan	07282.56 87th Avenue Sidewalk	07963.04 Pompano Hangers 26 & 27
02105.06 Downtown Davie Student Housing	07282.57 Emergency Signal	08128.02 950 E. McNab
02105.10 Downtown Davie-Driveway Restoration	07282.58 BBB Ranches Subdivision - WM	08130.00 D4 Oakland Park Blvd
03004.07 Parkland Commons Restaurant	07282.60 Ranches Ditch	08155.00 Lynn University
03023.04 Pompano Beach Library	07282.63 Parkside Drive Cross-Walks	08156.00 I-75 Express
04039.06 Sabbia Beach - 730 N. Ocean Blvd.	07282.65 City Hall Building Dept Expansion	08156.01 I-75 Utility Coordination
04046.02 Pompano Commerce Center	07282.66 Parkland City Hall Bldg Exp	08156.02 I-4 Interchange RS&H-FTE
04065.31 3rd Ave	07282.74 Ranches Drainage Survey	08229.00 Wedgewood Cove
04065.45 Highlands Park	07406.01 WTP1A-Floridian Well	08297.00 STOF
04065.46 Dockside Restaurant The Cove	07422.00 Wilton Manors Trailer Park	08310.00 Pinnacle at Tarpon River
04065.50 Ocean Hotel Sidewalk &	07463.04 My Storage Bin	08318.00 Miami Fire Station 14
04065.51 3rd Avenue CEI	07470.15 HBJ Holdings	08343.00 NSU Master Drainage Phase I
04065.54 Hillsboro Blvd. Watermain Upgrade	07470.26 Pompano Commerce Park	08343.01 Academic Village
04065.55 SR A1A Landscaping & Crosswalks	07470.28 Mullet Alley	08343.02 NSU Sports Center II
04065.72 S-Curve Valet Operations Evaluation	07470.46 Downtown Connectivity	08343.04 HCA Emergency Facility Site
04065.75 Hills Blvd Water Main CIP	07470.50 MLK Blvd Improvements	08343.05 HPD Surface Lot Survey
04065.76 Deerfield Beach City Hall	07470.75 Old Pompano Civic Plaza DB	08343.07 NSU-CCR
04074.25 Four Residential Lots	07470.84 Pompano property/Landmark	08343.08 CDs Master Drainage Ph.1 Zone 2
04074.26 Lauderdale Marine Center	07470.93 PB CRA Beach Parking Garage	08343.10 Academic Village Stormwater
04074.28 River Bend East/West Modifications	07470.94 Pompano Parking Garage	08343.16 NSU Cont. Survey & SUE Svcs.
04074.35 1601 SW 20th St - LMC	07500.00 WM/FM Amendment 2	08343.17 Misc Survey & SUE Davie
04116.04 Fairwinds	07500.44 75 test holes 7th and 10th	08343.18 NSU SUE
05005.01 First Presbyterian Church	07569.01 PB Airpark MPU	08343.22 NSU - Student Housing
05025.02 The Wave Phase 1	07600.08 SFRTA Northern Layover Maint. Facility	08348.00 Brickell Citi Center
05025.03 WAVE Streetcar	07600.09 Northern Layover & Maintenance Facility	08348.02 BBVC/Survey Requirements
05031.01 Port Everglades T4	07616.00 Broward County Courthouse	08364.00 Tamarac Mainlands Park
05062.04 Specific Purpose Surveys	07701.05 Port of Miami Tunnel	08400.04 9193 NRWWTTP Disposal System
06034.01 Oakland Preserve	07712.04 SFRTA Boca Raton Tri-Rail	08400.05 Wiles Road
07020.02 MLK Blvd. E Corridor Wtr Main.	07712.05 SFRTA Post Design Services	08400.11 Port Everglades MP
07020.03 Kendall Lake Neighborhood Storm Water	07733.00 7650 Lyons Road	08400.15 Hiatus Rd
07020.04 Gateway Drive	07733.08 Delray Verana	08400.21 Tradewinds Park
07020.10 Fire Station 24 Platting	07733.10 Coral Ridge Towers South	08400.17 GIS for BCAD
07020.11 Fire Station 61 Platting	07759.02 FLL Planning -On-Call	08400.18 WTP 1A Eng during Const
07020.14 Fire Station 52	07759.13 FLL 2014 ALP & AGIS Update	08400.20 Everglades Holiday Park
07020.16 Charlotte Burrie Civic Center	07776.00 Brwd Cnty Traffic Signalization	08400.22 BC Bus Shelter
07020.20 NW 7 Avenue Sidewalk Project	07776.04 FEC Corridor Aerial Work	08400.23 Master Pump Station 456-Lauderhill
07020.24 Pompano Misc. Building Projects	07796.00 BC Traffic Signal	08400.25 BCJC Midrise
07020.70 DB Utility Complex	07807.19 FLL East Perimeter Rd Upgrades	08400.26 Broward County Convention Center
07020.74 SW 9th Avenue	07807.21 FLL West Perimeter Road Upgrades	08400.28 Pembroke Rd CEI
07020.76 Briny Avenue Survey/SUE	07807.22 Rehabilitation of Taxiway New Papa	08400.31 Broward Reuse
07020.79 HUD Loan Assistance	07810.09 SR7 & Seminole Way	08400.32 NRWWTTP Load Center
07020.81 Underground Utilities	07810.15 I-95 Bridge Obscured Areas	08400.33 Northport Molasses Tank Farm
07020.92 SW 36th Ave	07810.26 SR 823 Flamingo Rd	08400.34 Southport Phase IX
07020.97 Lyons Park Neighborhood Improvement	07810.28 SRA1A Monuments	08400.35 BARC Central Facility
07050.24 Tree Island/FIU	07810.32 SR 814 - FDOT D4	08400.39 SW Airlines Modernization of Terminal 1
07050.33 L-8 Reservoir Monitoring Wells	07810.33 I95 WEIGH IN STATION	08400.42 FLL - South Security Enhancements
07064.02 Morrow Equipment Co	07810.36 SR 710 D/B -- Request for Potholes	08400.45 Pembroke Road Lighting & Plan Review
07155.21 Bermuda Riviera	07810.38 SR 70 at Jenkins	08400.49 Port Everglades T4 Ph. II Expansion
07169.02 FLL T4 Gate Replacement	07810.44 Old Dixie Hwy	08400.50 Wiles Road - R1226729P1
07169.03 CPM Maintenance Facility	07810.51 Broward School Zones	08400.54 Wiles Road CEI
07169.05 FLL T4 -FMS	07810.57 Broward School Zone Test Holes	08400.55 Pine Island Road CEI
07202.05 FXE Taxiway Intersection	07810.62 Additional School Zone Surveys	08400.57 BCWWS UAZ 110/111 and 113
07202.06 FLEXA - Taxiway Foxtrot	07810.64 CITS 64 Scope	08400.64 Davie Road Extension
07202.07 FXE Airport - Foxtrot AGIS	07810.66 Perimeter Road east end of FLL	08400.65 Project 9262 Utility locating and GIS
07235.04 Runway 10R-28L Obstruction Survey	07810.80 NE 6th Ave	08400.83 Brwd-Segment III Shore Protection
07235.09 FLL Taxiway C	07872.00 Port of Palm Beach Slip #3	08410.00 Dade County Misc Survey
07235.15 172.61 acre site	07924.00 Construction Observation	08440.00 Coca-Cola Factory
07235.19 North Drainage Basin Study	07958.05 T3 Line in Baggage Screening	08464.00 FGT Pompano CS21.5 -Turnpike
07235.21 Greenbelt Irrigation	07958.06 FLL Canopies	08464.01 Broadstone Oceanside
07235.22 FLL North Perimeter Road	07958.07 T2 Modernization	08467.01 Galleria Mall Expansion
07235.26 Obstruction Survey & Thunderbolt	07958.08 T3 Modernization	08477.00 Broward Health Prof. Arch. Svcs.
07248.01 KOI	07958.09 FLL Full Site Plan Review	08492.00 Ft.Laud Streetscape Improve
07248.03 Envy - 4350 NW 8th CT	07958.11 FLL Phase 1 Landside Signage	08493.06 AAF Bascule Bridge
07282.39 Pine Tree Estates	07958.12 RPR T1,2,3	08493.07 D5 AAF Movable Bridges
07282.51 Quigley Tennis Center	07958.14 T4 Terrazzo Floors RPR	08496.00 Reliant Medical



ADOLPHINE "DODIE" KEITH-LAZOWICK, PSM

President

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

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

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

RELEVANT PROJECT EXPERIENCE

City of Hollywood Boulevard Heights Septic-to-Sewer Conversion, Hollywood, FL: KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood. The surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material, and direction.

City of Deerfield Beach and CRA Miscellaneous Engineering Services Contract, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Deerfield Beach for over 14 years. KEITH is providing on-going continuing services as needed including engineering and surveying and mapping services to the municipality. Ms. Keith-Lazowick serves as the senior staff/elected officials liaison for the firm. Some projects provided under these contracts include: Hillsboro Boulevard beautification and utility improvements, Beach Dune re-nourishment program, Ocean Way improvements, and the Cove Shopping Center drainage & beatification improvement project.

City of Pompano Beach and CRA Miscellaneous Engineering Services Contract, Pompano Beach, FL: KEITH has served as the General Engineering Consultant for the City of Pompano Beach for over 16 years. Ms. Keith-Lazowick is the Contract Manager/Elected Officials Liaison for the firm on an as needed basis. Many of the project assignments have been in the redevelopment of roadways, parking facilities and utility infrastructure design. All services of the firm are utilized including planning, civil engineering, surveying, subsurface utility engineering, and landscape architecture.



Years of Experience
41

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

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

Professional Affiliations
Florida Survey and
Mapping Society (FSMS)

*American Congress on
Surveying and Mapping*

*National Society of
Professional Surveyors*

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

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

City of Parkland Miscellaneous Planning & Engineering Services Contract, Parkland, FL: KEITH has served as the General Planning and Engineering Consultant for the City of Parkland for over 11 years. KEITH is providing on-going continuing services as needed including general planning, engineering and surveying and mapping services to the municipality. Ms. Keith-Lazowick serves as the senior staff/elected officials liaison for the firm. Some projects provided under these contracts include: GIS mapping of municipal street map, zoning maps and land use maps, and miscellaneous topographic and boundary surveys for various municipal design contracts.

FDOT District 4 Miscellaneous Surveying and Mapping Services: Ms. Keith-Lazowick served as Project Coordinator/Manager for this continuing services miscellaneous contract in which she provided FDOT District 4 numerous design surveys, parcel and right of way stake outs, digital terrain models (DTM), geodetic control, control surveys, right-of-way mapping, and right of way (monumentation) surveys, maintenance mapping and parcel sketches. This was a 5-year contract, which provided \$1,500,000 in contract fees.

FDOT District 4 State Road 810 / Hillsboro Boulevard, Broward County, FL: KEITH provided the complete right of way and design survey for this roadway improvement and beautification project of approximately 4,800 linear feet of Hillsboro Boulevard (S.R 810) from US1 to the Intracoastal Waterway. Project included complete topographic design survey, easement sketches and description preparation, roadway cross-sections, underground utilities, drainage survey, mast arm signals, safety improvements, utility coordination and a tree survey. Project was led by Deerfield Beach CRA in cooperation with FDOT.

FDOT District 6 Port Miami Tunnel and Access Roadways, Miami Dade County, FL: Ms. Keith-Lazowick was the Senior Project Surveyor for this project which included Control, Design, Right of Way and Construction Surveying. The Port Miami Tunnel Project consists generally of 1.40 Miles including (i) the widening of the MacArthur Causeway Bridge, (ii) tunnel connections between Watson Island and Dodge Island (Port of Miami) and (iii) connections to the Miami roadway system. This project included setting primary horizontal and vertical control, a full topography/DTM survey, locating all surface utilities, trees, a detailed bridge survey, and survey support for geotechnical borings and subsurface utility engineering (SUE) locations. (Subconsultant Contract with Jacobs Engineering).

North Deerfield Beach Re-Nourishment Project, Deerfield Beach, FL: The North Beach Re-Nourishment Project was a FEMA grant funded project located on the east side of Ocean Way from a location 500' north of the Fishing Pier south to SE. 4th Street. The project consisted of dune refurbishment with compatible sand replacement for approximately 2,500 linear of beach. KEITH was the Prime consultant responsible for all the surveying services to facilitate the engineering design and coastal permitting for the Beach Restoration. The survey was in accordance with the requirements of the Florida Department of Environmental Protection-Division of Beaches and Shores as set forth in Section 62B-33.0081. In addition, KEITH was responsible for overseeing and scheduling the design, permitting and installation of sand in accordance with the grant application; preparing quarterly project status reports for the overall project. The timing of the construction was critical as the construction was limited to December through February in order to be completed by turtle nesting season.

Ocean Way Improvements, Deerfield Beach, FL: This was a project involving engineering, permitting, construction administration/inspection and surveying services for a 1-mile portion of Ocean Way in the City of Deerfield Beach CRA. The project objective was to resolve significant drainage issues and provide traffic calming and beautification in the corridor. Services included complete engineering design, construction engineering inspection services, topographic/design surveying and extensive community liaison services. Project improvements entailed extensive streetscape design elements including decorative brick paver sidewalks, gateway entrance features, and paver crosswalks, and included a new underground stormwater system to address flooding issues and a dilapidated existing system. Marine sea turtle compliant lighting concerns, beach restoration and coastal permitting were all encompassed in the scope of services.

Pompano Beach Boulevard Streetscape, Pompano Beach, FL: The Pompano Beach Boulevard Streetscape project included the redesign of Pompano Beach Boulevard roadways, median and pedestrian pathways. The Pompano Beach Boulevard Streetscape project included the redesign of Pompano Beach Boulevard roadways, median and pedestrian pathways. KEITH was responsible for Civil Engineering Design, Inspection and Surveying for the development of this unique beach front venue.



STEPHEN WILLIAMS, SR., PE
 Vice President of Civil Engineering

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



Years of Experience
48

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

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

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

Florida Engineering Society (FES), Member

National Society of Professional Engineers (NSPE)

RELEVANT PROJECT EXPERIENCE

10th Street General Consulting, Deerfield Beach, FL: Mr. Williams coordinated with FDOT’s Metropolitan Planning Organization, the Community Oversight Advisory Team (COAT) Committee and officials from the City of Deerfield Beach Administration department to achieve the City’s objectives for the 10th Street Corridor through the City. The City was interested in addressing the traffic volume issues along the SW 10th Street corridor between Florida’s Turnpike and I-95, which has consistently increased over the past 20 years and is expected to continue to grow, compounding congestion and noise.

Air Base K-8 Conversion, Homestead, FL: KEITH is providing Civil Engineering services for a new classroom building with approximately 23,699 GSF, new walkways, new covered Dining Shelter and various campus-wide miscellaneous renovations. Mr. Williams served as the engineer of record for this project.

Benjamin Franklin K-8 Center, North Miami, FL: KEITH is providing Civil Engineering services for classroom addition and renovations. The campus-wide renovations include a new 9,961 GSF classroom addition, new P.E. shelter, new playgrounds and additional parking and demolition of portables. The associated Civil scope includes site drainage and new water and sewer connections to the proposed classroom addition.

Bikeway Feasibility Study, Tamarac, FL: Mr. Williams served as the Project Manager under this general engineering contract, conducting a feasibility study for possible bikeways in the City. He assessed the existing conditions and identify potential economic benefits for the City that may result from the implementation of a bikeway system. As part of the study, he conducted a community workshop to get citizen input to determine need, possible locations, and potential costs of various locations and pathways.

Boca Raton Tri-rail Site, Boca Raton, FL: Mr. Williams served as the Project Engineer to investigate the impacts (water quality treatment & surface storage) of the proposed Yamato Road Tri-Rail Station Development (YRTSD) on the existing surface water management plan for T-Rex Technology Center at Boca Raton. This investigation looked at the existing site-specific development permits from South Florida Water Management District (SFWMD) and Lake Worth Drainage District (LWDD) for the proposed transit oriented development.

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

City of Oakland Park, NE 38th Street from Dixie Highway to NE 13th Avenue, Oakland Park, FL: Mr. Williams was the Engineer of Record for the design of N.E. 38 Street from Dixie Highway through the intersection of N.E. 13 Avenue. The goal was to enhance the pedestrian movements and vehicular traffic circulation in the area by developing paving, grading, drainage, landscaping and street lighting plans. The roadway cross-section included a sidewalk on the south side of N.E. 38 Street. The sidewalk on the north side of NE 38 Street was supplied by the Oakland Station development on the Oakland Station property in a sidewalk easement. This project connects the city's N.E. 12 Avenue project to their N.E. 38 Street project. Further designed a stormwater management system that includes a pumping station to eliminate frequent flooding of low roadway segments. The roadway reconstruction included upgrading the water and sanitary sewer systems as well as new storm drainage lines.

City of Oakland Park, CRA Urban Design Review, Oakland Park, FL: Mr. Williams served as the Project Manager. Provided an urban design review for CRA.

City of Oakland Park Downtown Master Plan, Oakland Park, FL: As the Client Project Manager, master planning, conceptual stormwater and utility design for a two-acre park in downtown Oakland Park, north of the Dixie Highway and NE 38th Street intersection.

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

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

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

NW 38th Street Drainage Improvements, Oakland Park, FL: Mr. Williams served as the Project Manager. Designed a stormwater management system that includes a pumping station to eliminate frequent flooding of low roadway segments. The roadway reconstruction included upgrading the water and sanitary sewer systems as well as new storm drainage lines.

Veterans Park Shoreline Restoration, Oakland Park, FL: Mr. Williams served as the Project Manager. The team performed a specific purpose topographic land survey of the Lake slope along the west side of Veterans Park located on NE 21st Ave, just south of the C-13 canal in Oakland Park, Florida. Hurricane Wilma caused erosion along the lake slope on the west side of Veterans Park. He performed an Engineering analysis to determine possible lake shore remediation alternatives. The Remediation alternatives included Construction cost and Engineering Design Fees for each identified Remediation alternative.



LEE POWERS, PSM
 Director of Surveying & Mapping

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

RELEVANT PROJECT EXPERIENCE

A1A Overhead Utility Conversion from Hillsboro Inlet to Terra Mar Drive, Pompano Beach, FL: KEITH is providing surveying and subsurface utility engineering during the design and construction process for this major infrastructure improvement meant to improve electric and communication utilities in the area.

Broward College North Campus Continuing Contract for Surveying Services, Coconut Creek, FL: KEITH is providing surveying services as-needed as part of our continuing services contract with Broward College. Responsibilities include collecting and providing various types of survey data to assist with engineering and the overall construction process. To date, we have provided an as-built survey of chill water lines for Eido’s Café & Bookstore located on the north campus, and SUE and mapping services for Building 49.

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

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

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



Years of Experience
 13

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

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

Professional Affiliations
 BIM Smart Foundation Member

Florida Society of Professional Surveyors & Mappers
 American Resort

Certifications
 Transportation Worker Identification Credential (TWIC)

FDOT Maintenance of Traffic

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

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

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

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

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

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

S.E. 8th Court Bridge Replacement, Pompano Beach, FL: Mr. Powers was the Project Surveyor for this design and reconstruction project including right of way and design survey, utility location and bathymetric survey for the replacement of an existing substandard municipal bridge. The specific survey work associated with this project included hydrographic, topographic and design survey associated with the proposed design of the replacement bridge and seawall as well as as-building the required improvements upon completion of construction to provide the necessary final certification documentation to the designer.

The Wave Modern Streetcar Project, Fort Lauderdale, FL: As a subconsultant to HDR Engineering, Inc., KEITH was tasked with providing Surveying and Subsurface Utility Engineering (SUE) services for this modern streetcar in Downtown Fort Lauderdale between Northwest 6th Street and Southeast 17th Street. The system would operate 5 modern streetcars in mixed traffic along existing roadways and would utilize transit signal priority. Mr. Powers is currently serving as Project Surveyor providing project control, aerial targets, topography/DTM, aerial clearances, drainage and sanitary details, recovery of property and right-of-way monumentation, boundary surveys, and survey support for the geotechnical operations.



DANIEL CHECCHIA
 Vice President of Location Services

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



Years of Experience
 21

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

Professional Affiliations
 Founding Board of
 Director-SUE Association

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

*Florida Utility
 Coordination Committee
 (FUCC)*

Certifications
 FDOT Maintenance of
 Traffic

Issues Affecting SUE

*Risk Management and
 Professional Liability in
 SUE*

*Rebuilding America's
 Infrastructure*

*SAFE PIPES Act and
 Related Legislation*

RELEVANT PROJECT EXPERIENCE

Brickell CityCentre, Miami, FL: KEITH provided surveying and subsurface utility engineering (SUE) services associated with the vertical drilling operations for the Brickell CityCentre project located in the City of Miami. KEITH provided layout, as-built and general on-call Surveying and SUE services. Quality Level “B” Designations and Quality Level “A” Locates were performed to help identify existing utilities for the design team. The Survey and SUE information was used to support the construction of the three City block foundations.

Briny Avenue Streetscape Improvements, Pompano Beach, FL: This project involved the reconstruction of East Atlantic Boulevard from A1A to Pompano Beach Boulevard/Briny Avenue including wider sidewalks, revised parking configurations and lanes. KEITH provided professional services for a design survey as well as the designation and location of subsurface utilities along Briny Avenue from the south right-of-way line of Atlantic Boulevard to the south end of Briny Avenue.

Downtown Development Authority - Downtown Transit Circulator, Fort Lauderdale, FL: The Downtown Transit Circulator or “The Wave” is an environmentally friendly public transportation system consisting of a light rail streetcar system that would utilize existing roadway corridors for installation and operation within the Downtown Development Area of Ft. Lauderdale. The services for this phase of the project included public meeting participation, surveying, existing utility data collection, coordination with utilities for potential relocations, assistance in preparation of alignment/typical section alternatives, determination in right-of-way requirements and capital cost estimating.

FDOT District 6 Districtwide Utility Location Services for SR-A1A (Collins Avenue), Miami-Dade County, FL: KEITH is providing utility designation, locating and surveying services for this proposed mast arm task work order on SR-A1A (Collins Avenue) at 79th Street. KEITH is performing ten physical locates, mapping those physical locates, and four scans to identify utilities at the requested locations.

FDOT District 6 Port of Miami Tunnel: The Port of Miami Tunnel Project consists generally of (i) the widening of the MacArthur Causeway Bridge, (ii) tunnel connections between Watson Island and Dodge Island (Port of Miami) and (iii) connections to the Miami roadway system. Mr. Checchia is the project coordinator of all utility related services for the Port of Miami Tunnel Project as a consultant to Bouygues Civil Works Florida. This project includes subsurface utility

engineering (SUE) locations in the area of the proposed tunneling on both the Watson and Dodge Island sides of the tunnel and sweeping the ground penetrating radar for potential unknown subsurface utilities.

Pompano Beach CRA Oceanside Fire Station No. 11, Pompano Beach, FL: As a Project Manager, Mr. Checchia was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

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

City of Hollywood Boulevard Heights Septic-to-Sewer Conversion, Hollywood, FL: KEITH, as a subconsultant to EAC Consulting, is currently providing topographic surveying and subsurface utility engineering (SUE) services to the City of Hollywood for the following roadways: Taft Street from NW7th Terrace to the Turnpike, the alleyway between Taft Street and Roosevelt and N 66th Avenue and 64th Avenue, Moseley Street from N 65th Way to the Turnpike, N 64th Avenue from Moseley Street to Taft Street. Surveys include all surface features, including roadways, driveways, sidewalks, striping, surface utilities, etc. Storm and sanitary structures are carefully being noted with invert elevation, size, material and direction. Elevations are noted at intervals of approximately 100 feet, including intermediate changes in grade. Trees are being located and noted by trunk diameter and common name.

Hallandale Beach Fire Station 7 and Emergency Management Facility, Hallandale Beach, FL: The building program and design for the City's new main fire rescue headquarters and emergency management facility were developed to achieve LEED Silver Certification and include a 25,000 SF, two-story complex with four apparatus bays and living quarters for up to 16 firefighters. In addition to on-duty fire rescue staff, the building will house the City's Fire Prevention Bureau including office space for fire inspectors, plans review and public education. KEITH is providing Civil Engineering, Landscape Architecture and SUE services.

Pompano Beach Downtown Connectivity Plan, Phase 1 & 2, Pompano Beach, FL: KEITH is responsible for performing an area wide study of the Northwest CRA existing infrastructure to create an underground utilities atlas map as well as to analyze the existing roadway infrastructure for suitability, connectivity and circulation. KEITH prepared an assessment of the existing facilities and provided recommendations on suitability of the CRA's proposed land use. (Ph. 2) Based on the approved Connectivity Plan as provided by the Pompano Beach CRA, the proposed improvements are to include pedestrian friendly streetscape with landscape/hardscape beautification features along MLK Blvd and in the Old Pompano Downtown; including special pavement materials, pedestrian lighting and roadway, streetscape furnishings, utility adjustments and drainage and roadway improvements.

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



SEAN MARSHALL
Project Surveyor

Mr. Sean Marshall has over 25 years of diligent and accomplished surveying and mapping performance in the South Florida community. He is proficient in utilizing computer systems and other technological tools to effectively perform survey calculations, property layout, and map preparation of various types of surveys. He has extensive project management experience and is well versed in the field review and safety implementation policies of the firm.



Mr. Marshall serves the critical role of Primary Field Crew Supervisor being responsible for the scheduling and direction of survey crews, and for checking completed fieldwork for proper accuracy to ensure quality control within the survey department. He has been responsible for developing the survey plan to perform Boundary surveys, Topographic surveys, Alta surveys and Construction layouts. Daily duties include primary contact with clients, evaluation of scope and cost elements, preparing bids and proposals, preparation of project plans of survey, and research of legal and survey control sources. He routinely evaluates GPS and conventionally observed data, performs calculations and set up of survey files for drafting functions.

He is extremely knowledgeable of Trimble type GPS equipment, including, 4700 and 5800 receivers, TSC1 v7.5 controllers, TGO v1.62 for Static and RTK processing of GPS observations. His computer skills include AutoCAD 2006 with Land desktop.

RELEVANT PROJECT EXPERIENCE

Broward County North County Neighborhood Improvement Project #13, Pompano Beach, FL: KEITH provided surveying services for the B.C.W.W.S. (Broward County Water and Wastewater Services) North County Neighborhood Improvement (Bid Package #13) as a sub-consultant for Ric-Man Construction. These services included the layout and as-built of the underground utilities (i.e. Drainage, Sewer and Potable Water Mains) and also the layout and as-builts for the reconstruction of the roadways within the project. Approximately 1,650 linear feet of force main, 15,400 linear feet of potable water mains, approximately 76 drainage structures and 15,000 linear feet of roadway.

Broward County, Port Everglades Terminal 18, Fort Lauderdale, FL: (2008 - 2009) Mr. Marshall served as the Project Surveyor and Field Review and Safety Supervisor providing construction surveying services for this new 23-acre terminal development for Broward County's Port Everglades. The site improvement work required included 5 drainage wells, over 1,000 linear feet of exfiltration trench and approximately 1,000 linear feet of drainage pipe, 440 spaces surface parking lot, 1,150 linear feet of water main extension, 576 linear feet of 8" sanitary water sewer extension, resurfacing of existing berth/dock areas, and demolition of Terminal 16 and conversion to a container yard. This expansion project also included modification of the entire westerly parking lot, bus parking/drop off area and reconfiguration of the roadway circulation and entrance gates. The total site area impacted by the improvements includes approximately 23 acres. Prepared and checked all field layouts and as-built to include building construction, roadway and parking areas, water, sewer and drainage layout and as-built surveys. Also worked in security areas dealing with access badging and security controls.

FDOT District 4 State Road 814 (Atlantic Boulevard) from A-1-A to Pompano Beach Boulevard Broward County, FL: As the Survey Technician and Field Review and Safety Supervisor, Mr. Marshall prepared extensive Topographic Design Surveys for this Pompano Beach CRA roadway improvement project, approximately 16,000 linear feet. Project included design and right of way for roadway reconstruction, water, sewer and drainage and trees survey as well as a FDEP

Years of Experience
25

Education
Miami Dade Community
College

Professional Affiliations
Florida Society of
Professional Surveyors &
Mappers

Certifications
FDOT Maintenance of
Traffic

*OSHA (Occupational
Safety & Health
Administration - 10 Hour
Construction course*

*CXST Safety Awareness
badge - On Track Safety
course*

Coastal Topographic Survey required for design and permitting of coastal roadways, pedestrian walkways, beach and dune beautification improvements.

FDOT District 6 Port Miami Tunnel and Access Roadways, Miami-Dade County, FL: Mr. Marshall served as the Survey Technician and Field Review and Safety Supervisor for the Port Miami Tunnel project, 1.4 miles, as a sub-consultant for Jacobs Engineer. This project included setting primary horizontal and vertical control, a full topography/DTM survey, locating all surface utilities, trees, a detailed bridge survey and survey support for geotechnical borings.

Las Olas Corridor Improvement Project, Fort Lauderdale, FL: Mr. Marshall serves as the Project Surveyor, Field Review & Safety Supervisor providing surveying services. These services include the layout and as-built of the underground utilities (i.e. Drainage, Sewer and Potable Water Mains) and also the layout and as-built for the reconstruction of the roadways within the project.

Mainlands Park - Design/Build, Tamarac, FL: The City of Tamarac was deeded the back nine holes of the former Monterey Golf Course to be developed as a park facility. Design elements of the park include a multi-purpose trail along the perimeter of the park and elevations to raise pathways, drinking fountains, shaded benches, fitness stations, a nature kiosk, fishing pier/observation platform, covered picnic tables, restroom facility, trash receptacles, and parking. KEITH provided Preliminary Engineering Plans, Coordination and Processing of Engineering Plans through City, County and State-wide agencies. Water Distribution and Sanitary Sewer Plans, Paving, Grading, Drainage and Earthwork Plans, Stormwater Pollution Prevention Plans, Site Engineering Permitting, Project Meetings and Miscellaneous Coordination and Construction Observation and Certification Services associated with Mainlands Park in Tamarac.

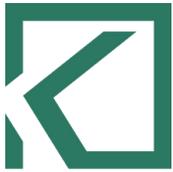
North County Neighborhood Improvement Project #12, Broward County, FL: KEITH provided surveying services for the B.C.W.W.S. (Broward County Water and Wastewater Services) North County Neighborhood Improvement (Bid Package #12) as a sub-consultant for Ric-Man Construction. These services included the layout and as-built of the underground utilities (i.e. Drainage, Sewer, Potable Water Mains and Reclaimed Water Mains) and also the layout and as-builts for the reconstruction of the roadways within the project. Approximately 19,800 linear feet of potable water mains, approximately 28,000 linear feet of reclaimed water mains, 110 drainage structures and 20,000 linear feet of roadway.

Palm Beach County School District - Miscellaneous Survey, Palm Beach County, FL: KEITH performed Boundary and Topographic surveys for our Miscellaneous On-call contract, with the Palm Beach County School District. Project includes preparation of surveys of various school properties in anticipation of the School Board making site improvements.

Port Everglades Terminal 18, Broward County, FL: Mr. Marshall served as the Project Surveyor and Field Review and Safety Supervisor providing construction surveying services for this new 23-acre terminal development for Broward County's Port Everglades. The site improvement work required included 5 drainage wells, over 1,000 linear feet of exfiltration trench and approximately 1,000 linear feet of drainage pipe, 440 spaces surface parking lot, 1,150 linear feet of water main extension, 576 linear feet of 8" sanitary water sewer extension, resurfacing of existing berth/dock areas, and demolition of Terminal 16 and conversion to a container yard. This expansion project also included modification of the entire westerly parking lot, bus parking/drop off area and reconfiguration of the roadway circulation and entrance gates. The total site area impacted by the improvements includes approximately 23 acres. Prepared and checked all field layouts and as-built to include building construction, roadway and parking areas, water, sewer and drainage layout and as-built surveys. Also worked in security areas dealing with access badging and security controls.

Water Supply Wells 28W, 32W and 33W - Boca Raton, FL: Mr. Marshall served as the Project Surveyor in preparation of Topographic Design Surveys for CDM Smith and the City of Boca Raton. Topographic Surveys were performed at three water-supply well sites.

UAZ 207 Lighthouse Point 12" Watermain and 16" Forcemain, Lighthouse Point, FL: As a sub-consultant for Ric-Man Construction, KEITH is providing surveying services for wastewater services within UAZ 207. The scope includes the installation of approximately 4,500 linear feet of 16-inch force main and approximately 4,200 linear feet of 6-inch through 12-inch water main, in addition to 117 linear feed of concrete sidewalk in the City of Lighthouse Point.



KEITH

MICHAEL MOSSEY, PSM

Senior Surveyor & Mapper

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



Years of Experience
40

Education
Maryville College,
Maryville, Tennessee

Professional Registrations
State of Florida
Professional Surveyor &
Mapper #5660

Professional Affiliations
Florida Society of
Professional
Surveyors & Mappers

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

RELEVANT PROJECT EXPERIENCE

A-1-A / S.R. 814 Atlantic Boulevard, Pompano Beach, FL: As Survey Project Manager, Mr. Mossey prepared extensive Topographic Design Surveys for this Pompano Beach CRA roadway improvement project. Project included design and right-of-way survey as well as a FDEP Coastal Topographic Survey required for design and permitting of coastal roadways, pedestrian walkways, and beach and dune beautification improvements. Concept includes reconstruction of roadway, water, sewer and drainage, streetscapes and beatifications.

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

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

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

City of Fort Lauderdale General Services, Fort Lauderdale, FL: As Survey Project Manager, Mr. Mossey prepared extensive Topographic Design Surveys for City of Ft. Lauderdale's Water Works 2011 Program for redevelopment of approximately 20-square miles of infrastructure in the City's utility expansion program. Projects included the Miami Road, Sewer Septic Areas 8, 3 and 4, Wastewater Treatment Plants and the Sistrunk Boulevard project.

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

- NE 27th Street ADA Parking Lot Topographic Design Surveys
- ADA Compliance Design Surveys for Eisenhower Blvd and SE 17th Street, Las Olas Circle, Birch Road, SE 4th Street, SE 16th Avenue and SE 15th Avenue, and NW 4th Andrews Avenue to NW 1st Avenue
- Peele Dixie Water Treatment Plant Engineering Design Surveys, Boundary and

Topographic Surveys

- SE 15th Street Boat Ramp Boundary Surveys
- Hortt Elementary School ALTA/ACSM Land Title Survey
- Mills Pond Park Boundary Survey
- Croissant Park Athletic Field Staking and Final As-Built Sketch for the City's records
- River Oaks (Lauderdale Marine Center) Specific Purpose Survey & Sketch and Design
- South Middle River Park Boundary Survey
- Fort Lauderdale Executive Airport (FXE) Taxiway Golf Relocation FAA Survey Submittal Assistance
- 17th Street Causeway Service Road Utility Designation and Mapping
- River Oaks Preserve Topographic Survey

City of Pompano Beach and CRA General Engineering, Surveying and Mapping Services, Pompano Beach, FL: KEITH is currently providing general engineering, and surveying and mapping services to the municipality and CRA on an as needed basis for all transportation and municipal projects. Mr. Mossey serves as the Senior Project Surveyor.

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

General Engineering/Surveying Services Contract, Pompano Beach, FL: Through our continuing services contract, KEITH has provided surveying and mapping services for multiple parks and public spaces within the City. As Survey Project Manager Mr. Mossey prepared Boundary and Topographic surveys, as well as sketches of description for Pompano Community Park, Highlands Park, Alsdorf Park, Rustic Bridge Park, Founders Park and Lovely Park.

Pompano Beach Boulevard Streetscape, Pompano Beach, FL: Mr. Mossey was responsible for the Coastal Hydrographic and Topographic Surveys for Florida Department of Environmental Protection (FDEP) Permitting for the design and construction of the roadway and pedestrian pathways adjacent to the beachfront. The project was situated seaward of the Coastal Construction Control Line therefore the design required extensive hydrographic and topographic survey in accordance with the requirements of the Florida Department of Environmental Protection-Division of Beaches and Shores as set forth in Section 62B-33.0081.

South Florida Water Management District General Surveying Services: As a Sub-Consultant to Calvin, Giordano & Associates, Inc., KEITH provides on-call general surveying and mapping services and many SFWMD projects including the Laspal Monitoring Station Project (well site - establishing new horizontal and vertical controls), G-16 Boundary Survey (establish 2 miles of horizontal control and map features), C-14 Boundary Survey (establish 4 miles of horizontal control and map features), Cell 2 (establish new horizontal and vertical control at via GPS at 7 remote sensing sites), C-16/G-14 Row Map Recording (Establish 5 miles of horizontal control and map features within the canal right-of-way) and the Hillsboro Canal Project (Complete a topographic survey of approximately 5 miles of canal bank for erosion issues including cross-sections within the waterway).

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

South Deerfield Beach Dune Refurbishment Project, Deerfield Beach, FL: Mr. Mossey was responsible for the Coastal Topographic Surveys for Florida Department of Environmental Protection (FDEP) Permitting to restore the 2000 feet of public beach and dune areas between S.E. 6th Street and S.E. 10th Street along Ocean Way. Turtle Nesting Season and time sensitive FEMA funding mechanisms have forced the necessity of an extremely aggressive project schedule.



MARK MITCHELL
Senior Utility Coordinator

KEITH

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



Years of Experience
20

RELEVANT PROJECT EXPERIENCE

Briny Avenue Streetscape Improvements, Pompano Beach, FL: This project involved the reconstruction of East Atlantic Boulevard from A1A to Pompano Beach Boulevard/Briny Avenue including wider sidewalks, revised parking configurations and lanes. KEITH provided professional services for a design survey as well as the designation and location of subsurface utilities along Briny Avenue from the south right-of-way line of Atlantic Boulevard to the south end of Briny Avenue.

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

FDOT District 6 Districtwide Utility Location Services, Miami Dade County, FL: As a Prime consultant, KEITH is providing underground utility location services, including physical locates and surface designations to FDOT District 6 for contract FM #250723-2-32-03/-04. Through our designating, locating and mapping services, KEITH supports the District's current work program in completing the design and development of construction plans.

Fire Station #11, Pompano Beach, FL: As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

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

HEFT Phase I and II / Florida Turnpike Enterprise / Miami-Dade County, FL: On this design-build project, Mr. Mitchell was providing Design Surveying and Subsurface Utility Engineering services.

Lake Buena Vista, FL: As a subconsultant to the Teco Peoples Gas, Mark Mitchell provided Subsurface Utility Engineering services on S. Apopka Vineland's Road. Mr. Mitchell performed (ASCE Quality Level D-A) Subsurface Utility Engineering services to designate, locate by excavation, survey and map existing surface and subsurface utilities to support the design of construction plans. Services include providing the exact horizontal and vertical locations of existing underground utilities by way of electromagnetic, sonic and other geophysical location techniques including air/vacuum or other non-destructive excavation procedures.

Martin Luther King Jr. Boulevard, Pompano Beach, FL: As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the design engineer on accurately identifying the existing utilities in order to mitigate conflicts with the proposed design.

Miami International Airport Chiller Plant Building, Miami, FL: KEITH provided Quality Level "B" utility designation, Quality Level "A" utility locates and mapping services for this Chiller Plant Building 3099 at MIA for ES Consultants. KEITH designated the above horizontal alignment of any existing known/unknown, toneable and non-toneable utilities using combination of geo physical prospecting equipment and Ground Penetrating Radar. This information was then collected and used by the design team to identify the activities of existing subsurface facilities. The firm was then requested to perform utility verifications of the facilities by using non-destructive/non-intrusive vacuum excavation services. The Utilities we exposed and cataloged to help the design team resolved potential conflicts with proposed design improvements.

Palm Beach International Airport GPR for Utility Clearance, West Palm Beach, FL: KEITH provided Quality Level "B" utility designation identifying eleven locations in the Northwest portion of the airport. The firm designated toneable and non-toneable underground utilities to facilitate their removal and allow for drilling by PSI for execution of their scope. Mr. Mitchell was responsible for executing the designations and field crew supervision.

Pipeline / US Navy / Key West, FL: Mr. Mitchell provided designating (ASCE Quality Level B) and locating (ASCE Quality Level A) Subsurface Utility Engineering services to map the proposed project limits of the installation of a jet fuel line. The project limits included four intersecting streets: Percy Court - West, Percy Court - East, Trumbo Road and an access road east of Trumbo Road. Mr. Mitchell also included an unknown sea wall that would potentially be impacted by the design in the final deliverables.

Pigeon Key Ramp Repair, Monroe County, FL: Mr. Mitchell provided utility location support for the design to keep the Pigeon Key Ramp intact and in its original appearance. Mr. Mitchell's role was to identify the foundation for the ramp columns. This was an FDOT LAP project.

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

SR A1A Conversion, Pompano Beach, FL: As the field supervisor, Mr. Mitchell was tasked with providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services to assist the City of Pompano Beach Project Manager on preparing the design build documents to be released for bid.



SEAN HALSEY, PSM
 SUR Survey/GIS/SUE Analyst (Junior)



As a Utility Project Manager for KEITH Location Services Department, Mr. Halsey is responsible for scheduling and supervising field crews, conducting utility field meetings, utility records research, conflict analysis and determining if additional utility investigation is needed for assigned projects in South Florida. With over 17 years of experience, he has completed projects from beginning phases to final delivery; which included preparing and submitting fee proposals, coordinating with clients, being able to setup projects for field crews and conducting field visits when trouble shooting is required; download and process collected data; performed quality control and finalizew for delivery while keeping clients informed on a daily basis. Mr. Halsey has extensive knowledge in the performance and use of GPR (Mala Geoscience, GSSI, Radio Detection, Nogin, etc.), Electro-Magnetic Induction (Radio Detection, Vivax, Fischer), Magnetometers, Vacuum Excavation Trailer and Portable Systems, Pipeline Inspection, Conductivity Scanning, Multi-testers and Fault Detection experience.

Years of Experience
 17

Education
 Lewis & Clark College
 Godfrey, IL 1992

Professional Registrations
 FDOT Maintenance of Traffic - Intermediate Level

RELEVANT PROJECT EXPERIENCE

FDOT District 6 District-wide Utility Coordination Services, Miami-Dade County, FL: As a Prime consultant, KEITH is providing utility coordination services to FDOT District 6 for contract FM #250723-3-32-01. The services provided under this task work order contract include initial contact, pre-design, contact, final design contact, utility clear package, utility project file & documents and project status report.

FDOT District 6 District-wide Utility Location Services, Miami-Dade County, FL: As a Prime consultant, KEITH is providing underground utility location services, including physical locates and surface designations to FDOT District 6 for contract FM #250723-2-32-03/-04. Through our designating, locating and mapping services, KEITH supports the District’s current work program in completing the design and development of construction plans.

FDOT District 4 District-wide Survey and Subsurface Utility Engineering Miscellaneous Contract, Broward, Palm Beach, & Miami-Dade Counties, FL: Mr. Halsey worked with KEITH’s SUE team which provided ASCE Standard Quality Level D-A Subsurface Utility Engineering services to designate, locate by excavation, survey and map existing surface and subsurface utilities to support the design of construction plans on a districtwide basis on projects selected by the District office. Services include providing the exact horizontal and vertical locations of existing underground utilities by way of electromagnetic, sonic and other geophysical location techniques including air/vacuum or other non-destructive excavation procedures.

I-95 EXPRESS Phase 3A-1 (FM# 433108-1-4-32-01), Broward County, FL: This project from South of Broward Boulevard to North of Commercial Boulevard, entails the widening roadway and bridges which will impact utility adjustment and installation of Toll Facilities. The Contribution of I-95 Express Lanes within Broward County to permit bridge widening on the mainline, as well as to provide the Design/Build firms with an awareness of permanent conflicts to construction and working conflicts. Mr. Halsey provided review and comments as a function of the TAG Team support to “Concept Designers” major effort to distribute utility design contracts to local cities/county for their reference to provide support of various design teams competing to win this project.

I-95 EXPRESS Phase 3A-2 (FM# 433108-1-5-32-01), Broward County, FL: This project from North of Commercial Boulevard to SW 10th Street, is a contribution of the I-95 Express Lanes within Broward County to enable Design/Build firms to have knowledge of identified conflicts within the project limits that must either be adjusted at the Design/Build firm’s expense or they

Engineering Inspired Design.

SEAN HALSEY

Page 2

must design to avoid impacts. Mr. Halsey participated in the identification of potential impacts and assisted several cities with their understanding of the State's expectation for coordination and relocation.

FDOT District 4 I-75 EXPRESS Project, Broward County, FL: As a sub-consultant to RS&H, KEITH provided Subsurface Utility Engineering (SUE), Survey and Utility Coordination Services as part of the Corridor Design Consultant Team tasked with developing the individual Segments (A-E) Request for Proposals (RFP) packages. Mr. Halsey supervised the coordination between all local utility agencies to develop mitigation strategies for potential utility conflicts with concept and permit plans. KEITH met with the utility agency owners individually, as well as hosting multiple workshops and forums to communicate vital project information. KEITH developed mitigation strategies for the prospective Design/Build Firms paving the way for their design and construction efforts and continues to provide post-design services to facilitate utility coordination.



ERIC WILHJELM, PSM
Project Surveyor

Mr. Wilhjelm has over 28 years of experience in surveying and mapping. Mr. Wilhjelm specializes in roadway projects and has completed numerous Design and Right-of-Way Survey and Mapping projects. He has experience in every phase of a survey and mapping project from the planning of GPS sessions, compiling DTM's and computing historic baselines to completion of right-of-way maps. He has extensive experience with a variety of engineering and surveying-related computer softwares, including MicroStation V8i, SS4, Geopak, Caice and Trimble Business Center. Mr. Wilhjelm has managed Districtwide Surveying and Districtwide Right-of-Way Mapping contracts for District 4 and 6. His project management experience includes staff supervision, quality control and scheduling.

RELEVANT PROJECT EXPERIENCE

FDOT District 4 District-Wide Surveying & Mapping Services (FPID 425037-1-32-01), Broward County, FL: Mr. Wilhjelm served as the project manager and Surveyor of Record on this District Wide Surveying and Mapping Contract. Within this contract, Mr. Wilhjelm completed 73 Task Work Orders within a 3.5 year period. Within the scope of this contract Mr. Wilhjelm completed design surveys for I-95 at SW 10th Street (S.R 869) and S.R 845 (Powerline Road). In addition, this contract has included major R/W Surveys for Interstate 75 in Miami Dade County and the FEC Railroad in Palm Beach, which included calculating the historic baseline of Surveys. He also completed the R/W Control Survey for 14th St Causeway (S.R 844) and the required PNC sheets for various tasks. As with all Districtwide, this contract includes miscellaneous tasks as additional DTM surveys, drainage as-builts, parcel stake-outs, etc.

FDOT District 4 District-Wide Surveying & Mapping Services, Broward County, FL: Mr. Wilhjelm was the lead project surveyor for this district wide contract. This district-wide had over 77 task work orders. The range of tasks included from simple parcel stake-outs to full design surveys. Some of the larger tasks include design surveys for Glades Road, Griffin Road, S.R A1A, 17th St. Causeway and two slip ramps on I-595/I-75. In addition, one of the bigger tasks was to calculate the historic baseline of survey for I-75 from the information surveyed by the District's in-house crews. Also, include finishing two right of way maps started by the District. Control includes both horizontal and vertical control needed for the various tasks. He prepared the planning and adjusting of the GPS, the processing of EFB data or the adjustment of the level runs, basic calculations of parcels to be staked, create and modify DTM, calculate historic baselines and existing right of way. In addition, he created some legal descriptions for drainage easements.

FDOT District 4 I-595 Primary Control (FPID 419715-1-32-01), Broward County, FL: Project Surveyor and Surveyor of Record - FDOT District 4 (Broward County) Mr. Wilhjelm served as a project surveyor on this project to set the primary horizontal and primary secondary control for this 11.5 mile project. Mr. Wilhjelm planned the session and the processing and adjustment of the GPS data for the Primary Horizontal Control. In addition, he adjusted the 14 mile level run to elevate the Primary Vertical Control.

FDOT District 4 Districtwide Miscellaneous Survey Services (FPID 229922-4-32-01), Broward County, FL: Mr. Wilhjelm started this Districtwide contract as project surveyor and later became the project manager and surveyor of record. This district-wide had over 95 task work orders within a 5 year period. The range of tasks included from simple parcel stake-outs to full design surveys. Some of the larger tasks included the full design surveys for S.R 7, S.R 814 (Atlantic Blvd), S.R 869 (SW 10th Street), S.R 820 (Hollywood/Pines Blvd), which includes three separate surveys. Mr. Wilhjelm prepared both horizontal and vertical control needed for the various tasks. He prepared the planning and adjusting of the GPS, the processing of EFB data or the



Years of Experience
28

Education
B.S. Land Surveying and Mapping, University of Florida, Gainesville, FL, 1997

Professional Registrations
Registered Professional Surveyor and Mapper, State of Florida #5872, 1998

adjusting of the level runs, calculated the historic baseline of surveys and existing right of way, created and modified Geopak Tin files.

FDOT District 4 I-75 & Griffin Road Interchange, Broward County, FL: Mr. Wilhjelm was the project surveyor as a sub-consultant to RJ Behar & Company, Inc. This project was for the urbanization of the interchange ramps at Griffin Road (S.R 818) and Interstate 75 (S.R 93). Mr. Wilhjelm planned and adjusted the GPS sessions and adjusted the level run on both Griffin Road and I-75. He was the project surveyor for the DTM of soft areas. This design survey included drainage survey.

FDOT District 2 SR 200 (US 301) CEI Survey Services (FPID 429551-1-62-01), Duval and Nassau Counties, FL : Project Surveyor and Surveyor of Record FDOT District 2 (Duval and Nassau). Mr. Wilhjelm served as the Surveyor of Record for the survey activities related to CEI Services for S.R 200 on a 17 mile long construction project. Mr. Wilhjelm did oversee the recovering and or resetting of the existing horizontal and vertical control before the start of construction as well as the recovery of the baseline of survey. Also, the R/W Monumentation of the right of way line was completed. Mr. Wilhjelm oversaw the updating of the two Right of Way Maps to this project from FDOT 2002 CADD standards to FDOT 2008 CADD standards in preparation of the R/W Monumentation Map.

FDOT District 6 District-wide Additional Highway System R/W Maps, Miami-Dade County, FL: Mr. Wilhjelm started this District wide contract as project surveyor and later became the project manager, completing 25 task work orders. The tasks ranged from stake out of guardrail to full design surveys with DTM's. In addition, it also includes some R/W Mapping. Control includes both horizontal and vertical control needed for the various tasks. He prepared the planning and adjusting of the GPS, the processing of EFB data or the adjusting the level runs, calculated the historic baseline of surveys and existing right of way, created and modified Geopak Tin files.

FDOT District 6 US 27 (SR 25), Broward County, FL: Mr. Wilhjelm served as Project Manager and Surveyor of Record on this 4.83-mile project which ran from the Homestead Extension of the Florida Turnpike to the Broward/Miami-Dade County line. This project was a design survey with a DTM of the asphalt surface and cross-section of the ground shots. The survey task also included the calculations of the historic baseline of survey and historic centerline of construction as along with the existing right of way. Mr. Wilhjelm planned the session and the processing and adjustment of the GPS data to set the primary and secondary control. In addition, he adjusted the 5.0-mile level run. Mr. Wilhjelm processed and adjusted the EFB data for the creation of the topographic files and the Geopak tin file. In addition, he calculated the historic baseline, centerline of construction and existing right of way for this task. He was the signing surveyor on the Project Network Control Sheets.

FDOT District 6 US 27 (SR 25), Broward County, FL: Mr. Wilhjelm served as Project Manager and Surveyor of Record on this 4.83-mile project which ran from the Homestead Extension of the Florida Turnpike to the Broward/Miami-Dade County line. This project was a design survey with a DTM of the asphalt surface and cross-section of the ground shots. The survey task also included the calculations of the historic baseline of survey and historic centerline of construction as along with the existing right of way. Mr. Wilhjelm planned the session and the processing and adjustment of the GPS data to set the primary and secondary control. In addition, he adjusted the 5.0-mile level run. Mr. Wilhjelm processed and adjusted the EFB data for the creation of the topographic files and the Geopak tin file. In addition, he calculated the historic baseline, centerline of construction, and existing right-of-way for this task. He was the signing surveyor on the Project Network Control Sheets.



REBECCA GREEN

Utility Coordinator

Ms. Rebecca Green has developed a comprehensive understanding of the processes involved in utility coordination as well as subsurface utility engineering since starting with KEITH in 2016. She is familiar with FDOT utility procedures in accordance with the Utility Accommodation Manual and has worked to develop relationships with UAOs statewide. Ms. Green is actively furthering her professional studies, pursuing a Bachelor’s degree in construction management.



Years of Experience
3

Education
Associates in Arts (A.A.)
in General Studies, 2015

RELEVANT PROJECT EXPERIENCE

FDOT D6 Districtwide Utility Coordination Services, Miami-Dade County, Florida: As a Prime consultant, KEITH is providing utility coordination services to FDOT District 6 for contract FM #250723-3-32-01. The services provided under this task work order contract include initial contact, pre-design, contact, final design contact, utility clear package, utility project file & documents and project status report.

The Wave, Fort Lauderdale, FL: Ms. Green coordinated with public and private utility agencies to create Utility Work Schedules in order to appropriately relocate/adjust/protect their facilities and to ensure compliance between the utility agency and awarded Design-Build Firm. She has been involved throughout the bidding process from rating proposals to creating the presentation for the Utility Pre-Proposal Meeting.

Northern Layover and Light Maintenance Facility, Riviera Beach, FL: Working closely with the client, Ms. Green fulfilled Client requests for information regarding the public and private utility agencies including the compilation of a list of contacts and identification of potential project conflicts. She coordinated with the involved agencies to determine the exact location and/or depths of their facilities and attended multiple utility meetings with the client. Ms. Green also assisted in the collection and organization of field data gathered by the Subsurface Utility Engineering field crew and properly communicated this data to both the clients and the utility agencies. Ms. Green has assisted in the development of all schedules related to utility relocations and continues to attend progress and coordination meetings.

I-95 and 45th Street, West Palm Beach, FL: Ms. Green coordinated between project parties and introduced each utility agency to the concept plans and project overview. Currently, Ms. Green is drafting a write-up based on the information provided by the utility agencies for the PD&E study to assist in determining the most cost-effective and least impactful roadway design in regard to utilities.

I-95 Express Lanes Phase 3C: Ms. Green has been involved with interpreting Subsurface Utility Engineering and Survey data to create a utility base map on MicroStation representing quality level “B” locates and test hole data. This information has been used to identify utility conflicts. Ms. Green is also involved in the bidding process as a reviewer for the Letters of Interest.

Pembroke Road, Miramar, FL: Ms. Green organized and analyzed data from the Subsurface Utility Engineering field crew to begin creating a verified utilities report following Broward County standards. She worked closely with KEITH’s survey department to ensure the accuracy and quality of reports and client communication moving forward.



ERIC DETASSIS
Survey Technician III

Mr. Detassis has over 18 years of diverse experience in surveying and mapping including 10 years of experience as a Survey Crew Chief on roadways, interstates and transportation facilities. In his current capacity of Survey Technician some of his everyday responsibilities include researching land records, checking field notes, processing field data of both TDS and EFB data collection files, performing control calculations, creating legal descriptions, field crew supervision, and the occasional field work. Additionally, Mr. Detassis is skilled in multiple CAD platforms including MicroStation, CAiCE, AutoCAD and EaglePoint. He is highly proficient in the application and processing of Terrestrial Laser Scanning. Mr. Detassis has hands on experience using all sorts of surveying technologies such the Florida Department of Transportation's Electronic Field Book (EFB) data collection system, Digital Leveling and Global Positioning Systems (G.P.S.). He is also efficient with Leica ScanStation 3-D Laser Scanner, Leica Total Stations & Digital Level, Pacific Crest GPS Radio and Repeater, Trimble GPS, Juniper Data Collection (EFB Software), Topcon Total Stations and Digital Level.

RELEVANT PROJECT EXPERIENCE

FDOT District 4 - SE 3rd Avenue from SE 17th Street to Las Olas, Fort Lauderdale, FL: KEITH is providing Survey, SUE and Landscape Architecture services as a subconsultant to Protean Design Group on this MPO Bike and Pedestrian Project. The project entails adding bike lanes, new ADA ramps and drainage replacement to accommodate street modifications for ADA ramps and pedestrian crosswalks. Mr. Detassis served as the survey technician for all survey data collected. This project included establishing project control, recovering the existing alignment and right-of-way, subdivision and section corner locations, Topographic/DTM and drainage surveys.

FDOT District 4 - NW 19th Street - State Road 7 to State Road 845, Fort Lauderdale, FL: Mr. Detassis is serving as Survey Technician on this 3-mile Bike Lane and Intersection Improvement Project. Survey includes cross sections at 500-foot intervals, DTM at intersections for Mast Arms and Drainage As-Builts. This survey also includes an extensive survey to determine the existing alignment and right-of-way.

FDOT Turnpike - HEFT Widening from NW 106th Street to I-75, Miami-Dade County, FL: As a subconsultant, KEITH is providing surveying, and SUE, including utility coordination services. Survey tasks included Horizontal Control, Vertical Control, right-of-way lines, setting aerial targets, Topography/DTM, cross sections, Drainage survey and Bridge survey.

FDOT District 4 - Survey: Mr. Detassis served as Survey Crew Chief and then as Survey Technician for the following District 4 projects:

- **I-95 in Indian River County from County Road 512 to Brevard County Line:** Conducted a detailed sectional and subdivision survey through rough scrub brush to recover original monuments for baseline and right-of-way determination. This survey also required an extensive control survey to support the topographic survey and aerial photogrammetry.
- **Juanita Avenue Bridge Replacement, Fort Pierce:** Set new primary and secondary control points as needed to support the survey and construction needs of the project including recovering the baseline of Juanita Avenue, setting primary and secondary control, topography/DTM survey, detailed bridge survey, canal cross sections and other miscellaneous survey support.
- **CR 68/Orange Avenue from Grave Road to Kings Highway:** Set new primary and secondary control points, develop the historical baseline of survey as well as numerous cross sections to support this shoulder re-design project.



Years of Experience
18

Education
B.S. Industrial Engineering, Florida State University, 2000

Certifications
FDOT Maintenance of Traffic

OSHA (Occupational Safety & Health Administration- 10 Hour Construction Course

OSHA Confined Space Entry

- **Kings Highway - St. Lucie County:** This PD&E study of the impact of widening this stretch of roadway required a substantial control survey, as well as a 500-structure drainage survey.
- **District 4 - Miscellaneous Survey Contract:** Conducted numerous survey projects including Blue-Booked Vertical Control (both conventional level and GPS methods) surveys, to county-wide GPS control surveys and large boundary surveys.

DOT District 6 - Survey: Mr. Detassis served as Survey Crew Chief for the following District 6 projects:

- **Port of Miami Tunnel:** Set primary horizontal and vertical control, a full topography/DTM survey, locating all surface utilities, trees, a detailed bridge survey, and survey support for geotechnical borings and subsurface utility engineering (SUE) locations.
- **Florida's Turnpike CEI Northbound Widening from Sunrise Boulevard to Atlantic Boulevard:** Survey support for the CEI Prime Consultant including right-of-way determination, recovery and establishment of project control and roadway cross sections as needed.
- **Florida's Turnpike from Lake Worth Road to Okeechobee Blvd:** Completed a topographic, boundary and drainage survey in support of this widening project.

Federal Highway (US-1) Beautification Project, Delray Beach, FL: Mr. Detassis served as the Survey Technician for this project that includes US-1 (Federal Highway) in Delray Beach from just South of S.E. 10th Street to just North of I.E. 8th Street. This project provides the design services necessary to decrease the current three-lane configuration of US-1 (Federal Highway) through the downtown area to a two-lane roadway with additional parking, walkways and landscaping. This project required the firm to establish new control points throughout the project limits. The team also conducted a survey of over 220 drainage structures throughout the corridor. Floor elevations were measured on all structures within 25 feet of the right-of-way. A Topographic Survey was required for

The Wave Modern Streetcar Project, Ft. Lauderdale, FL: As a subconsultant to HDR Engineering, Inc., KEITH was tasked with providing Surveying and Subsurface Utility Engineering (SUE) services for this modern streetcar in Downtown Fort Lauderdale between Northwest 6th Street and Southeast 17th Street. The system would operate 5 modern streetcars in mixed traffic along existing roadways and would utilize transit signal priority.



ARACELY ANDOLLO-SOTO

Utility Coordination Manager

Ms. Andollo-Soto has 22 years of experience in the area of utility coordination, for both design-build and traditional design-bid-build projects. She has worked predominantly with FDOT Districts 4 and 6, Turnpike Enterprise, MDX and Miami-Dade County. She has extensive experience in permitting through municipal and governmental agencies such as Water & Sewer Departments, Department of Environmental Resources Management, South Florida Water Management District, Florida Department of Environmental Protection, Department of Health and other State and federal agencies. Ms. Andollo-Soto has also managed the construction phase of a project including RFI's, review and processing shop drawings and coordination among clients, contractors and Engineers of Record.

RELEVANT PROJECT EXPERIENCE

FDOT District 4 Districtwide Utility Coordination Production Support, Broward County, FL: This project involved utility coordination for various roadway projects within FDOT District 4. Ms. Andollo-Soto served as the Lead Utility Coordinator, supervising tasks including all phases of negotiation and relocation of electric, telecom/cable, water/sewer and gas/fuel utilities impacted by FDOT projects. She provides these services in accordance with FDOT's standards, policies and procedures; and is familiar with FDOT's utility agreements with vendors and utilities such as: Florida Power & Light Distribution, Transmission and FiberNet; Comcast, AT&T/Bellsouth, Verizon, Level 3 Communications, Qwest Communications, Sprint/Nextel, Broward County Water & Wastewater, Indian River County Utilities, Martin County Utilities, Palm Beach County Utilities, St. Lucie County Utilities, City of Ft. Lauderdale, City of Oakland Park, City of Pompano Beach, City of Port St. Lucie, City of Riviera Beach, City of St. Lucie, City of Sunrise Water & Sewer, City of Tamarac, City of Wilton Manors, City of Vero Beach Water & Sewer, Florida Gas Transmission, Crown Castle, Fiberlight, Hotwire, Windstream, XO Communications and others.

FDOT District 6 Districtwide Utility Coordination Services: For the initial contact in which Ms. Andollo-Soto served as Utility Coordinator. Her responsibilities consist of supervising tasks that have included all phases of negotiation and relocation of electric, telecom/cable, water/sewer and gas/fuel utilities impacted by FDOT projects. She provides these services in accordance with FDOT's standards, policies and procedures; and is familiar with FDOT's utility agreements with vendors such as: Florida Power & Light Distribution, Comcast, AT&T/Bellsouth, Verizon, Miami-Dade Water & Sewer, Level 3 Communications, Qwest Communications, Sprint/Nextel, Florida Keys Aqueduct Authority (FKAA), Florida Keys Cooperative, Florida Gas Transmission, Crown Castle, Fiberlight, Hotwire, Windstream, XO Communications and others.

FDOT District 6 SR-907 (Alton Road) at the Intersections of 5th, 10th and 14th Street, Miami-Dade County, FL: This 3-phase project (a strung project) was part of the overall lead reconstruction project of SR 907 (Alton Road) from 5th Street to Michigan Avenue). This project encompassed drainage improvements (including pump stations and bulkhead outfalls) with relocations for facilities owned by Florida Gas Transmission, TECO Peoples Gas, FP&L (Distribution) and City of Miami Beach. Ms. Andollo-Soto provided Utility Coordination for the District and worked with the aforementioned UAOs, in addition to coordinating with AT&T Florida, Atlantic Broadband and Verizon Business.

FDOT District 6 SR-968 (W Flagler Street) from W 27th Avenue to W 2nd Avenue, Miami-Dade County, FL: This 3-phase project consists of roadway full reconstruction and extensive excavation for lighting, signalization and landscaping with relocations for facilities (including joint-use poles



Years of Experience
22

Education
B.S. Civil Engineering,
Florida International
University, 1998

Associate in Arts, Miami-Dade College, 1993

Professional Certifications
Utility Coordination
Certification, Florida
Utility Coordination
Committee (FUCC) 2014

-FUCC "Utility Coordination Certification - Design" Module

-FUCC "Utility Coordination Certification - Cost Estimating & Billing" Module

-FUCC "Utility Coordination Certification - Coordination" Module

American Public Works "Introduction to Damage Prevention and Safety"

FDOT "Advanced Work Zone Traffic Control"

FDEP "Storm Water, Erosion, & Sedimentation Control Inspector"

Professional Affiliations
APWA, member since 1998
ASCE, member since 1998

and duct banks). Ms. Andollo-Soto is providing Utility Coordination for the District and working with AT&T Florida, Comcast Cable, FP&L, FiberNet, MD-WASD, and TECO Peoples Gas.

FDOT District 6 Utility Coordination Services for SR-A1A (Collins Avenue), Miami-Dade County, FL: KEITH was requested by the contract project manager to provide utility coordination services for FDOT project FM#440169-1-52-01. KEITH is responsible for providing utility coordination services for SR A1A (Collins Ave.) from Fountain St. to 17th St. for signalized intersection lighting (lighting retrofits at signalized intersections) to clear this project for utility certification.

FDOT District 6 Utility Coordination Services for US-27/SR-25 Okeechobee Road, Okeechobee, FL: KEITH was retained by the department to provide utility coordination services for the proposed reconstruction of US27/SR25 Okeechobee Road from East of NW 116 Way to East of NW 87th Avenue. KEITH is tasked with completing utility coordination efforts for the design project FPID#423251-4-52-01, US27, Hialeah Gardens/Medley. KEITH's services include utility coordination services in compliance with the contract standards as well as submitting final deliverables to the Department in the approved format.

FDOT District 6 SR-5 (Overseas Highway) from Jerome Avenue to Whale Harbor Channel, Florida: This 3-phase project encompassed milling, resurfacing and drainage. Ms. Andollo-Soto provided Utility Coordination for the District and worked with AT&T Florida, Comcast Cable, Florida Keys Electric Cooperative Association and Florida Keys Aqueduct Authority.

FDOT District 6 SR-5 (Overseas Highway) from Whale Harbor Channel to Smuggler's Cove Entrance, Florida: This 3-phase project encompassed milling, resurfacing, drainage improvements and landscaping. Ms. Andollo-Soto provided Utility Coordination for the District and worked with AT&T Florida, Comcast Cable, Florida Keys Electric Cooperative Association and Florida Keys Aqueduct Authority.

FDOT District 6 SR-7 (NW 7th Avenue) from NW 8th Street to NW 78th Street: This 3-phase project encompasses full reconstruction with relocations for facilities, joint-use poles and duct banks owned by AT&T Florida, FP&L Distribution, FP&L FiberNet and TECO Peoples Gas. Ms. Andollo-Soto is providing Utility Coordination for the District and working with the UAOs.

FDOT District 6 SR-823 (W. 4th Avenue) from W. 46th Street to W. 84th Street: This 3-phase project encompassed full reconstruction and extensive excavation (for lighting, signalization and drainage) with relocations for facilities (including joint-use poles and duct banks) owned by FP&L, City of Hialeah, Miami-Dade WASD, AT&T Florida (BellSouth) and Florida City Gas. Ms. Andollo-Soto provided Utility Coordination for the District including UWHC Agreements and worked with the aforementioned UAOs, in addition to coordinating with FP&L and its joint-pole users.

FDOT District 6 SR-968 (SW 1st Street) from Flagler St. to SW 5th Avenue: This 3-phase project consists of roadway full reconstruction and extensive excavation (for lighting and signalization) and landscaping. Ms. Andollo-Soto is providing Utility Coordination for the District and working with AT&T Florida; Comcast Cable; FP&L; FiberNet; Miami-Dade WASD; and TECO Peoples Gas.

FDOT District 6 SR-968 (W Flagler Street) from W 27th Avenue to W 2nd Avenue: This 3-phase project consists of roadway full reconstruction and extensive excavation for lighting, signalization and landscaping with relocations for facilities (including joint-use poles and duct banks). Ms. Andollo-Soto is providing Utility Coordination for the District and working with AT&T Florida; Comcast Cable; FP&L; FiberNet; MD-WASD; and TECO Peoples Gas.

LITIGATION

In 2016, KEITH was involved in a material case (No. 14-14525(12)) as a third-party defendant in a dispute between a client of ours and a neighboring property owner. The case was settled and all parties involved have received resolution. KEITH has not been involved in any other litigation over the past 5 years.

THE KEITH TEAM

KEITH is currently providing Engineering, Planning and Surveying services on over 75 on-call contracts with varies municipalities and governments. Our staff is completely familiar with the nuances of servicing these contracts, understanding the unique characteristics of each community and curates a team to get the job done in a timely and cost-effective manner. Out of these contracts, eleven are with municipalities within Broward County. These contracts most similar to the type and size of projects to be performed under this RFP.

- City of Hollywood
- City of Parkland
- City of Fort Lauderdale
- City of Pompano Beach
- City of Deerfield Beach
- City of Coral Springs
- City of Margate
- City of Coconut Creek
- City of Pembroke Pines
- Town of Davie

KEITH is committed to providing prompt professional services on all survey and mapping projects of varying magnitude and complexity. All services provided will be performed and delivered in strict conformance with the City’s standards. This knowledge allows for quick and effortless reviews by City personnel. We have developed and implemented a formal Quality Control and Quality Assurance program that has proven to be effective on previous municipal surveying and mapping consulting contracts. The success of our projects has been a result of our leadership’s unwavering commitment to high standards of practice and our commitment to uncompromising professional ethics.



KEITH uses proactive management principles to develop innovative project solutions and procedures allowing us to work efficiently and effectively. Adolphine “Dodie” Keith-Lazowick, PSM serving as the Principal in Charge and the Quality Assurance Program Oversight, will ensure that our team performs within all contract requirements including scope, schedule, budget, and quality. She will assure that proper corporate resources are available to meet the contractual needs of every work order.

SINGLE POINT OF CONTACT

Our firm understands the importance of a timely completion of these survey requests. This will be accomplished by having a single point-of-contact, Mr. Lee Powers, PSM, to simply reduce miscommunication and work as an extension for the City. Lee Powers, PSM serving as the Contract / Project Manager, will ensure that our team performs in strict conformance with all work order requirements. He provides a proactive personalized project management approach centered around communication. We believe a key component to the success of any contract is proper and open lines of communication between the internal members of the overall project team.



Work efforts should appear trouble-free as the team provides seamless surveying and mapping services to the City on every assignment. Of equal importance is the communication between the KEITH Project Manager and the City's Project Manager. These relationships allow the team to anticipate and resolve potential project pitfalls and assure schedule compliance is maintained.

Mr. Powers' Project Management approach includes stewardship, oversight, leadership and technical support, and promotion of continuous quality control and improvement measures. Another key to a successful project management program is the acceptance of responsibility and accountability by the project / contract staff, and support from the client's management staff. The combination of seasoned Surveyors and Mappers throughout our team, all having an established working history together on numerous projects, provides for an acceptance and accountability of ownership to employ true project management philosophies and proactive initiatives to diminish unforeseen potential project issues and/or concerns.

The KEITH Team's roots stem from Broward County where our founder, Mr. Bill Keith was raised. The KEITH team has called Broward County home throughout our twenty-one year history. Our staff combines the technical experience of a diverse pool of professionals with an extensive working knowledge of local and regional projects, emphasizing governmental land development and re-purposing projects. This convergence of experience has resulted in the development of important relationships with key agencies. In addition, we have a tremendous database of knowledge and information regarding local past and ongoing projects; an invaluable asset for our clients.

KEITH, a Florida Corporation, has worked on thousands of surveying projects in Broward County over the last two (2) decades. The Team has worked through a complexity of schedules, budgets and programs to ensure the success of these projects is maintained. The KEITH Team has the blend of experiences to handle every aspect of the projects' needs from start to finish. Some of the Teams collective experience is included below for review and consideration.

We understand the scope of the consulting services required for this contract include, but are not limited to:

- Be able to provide a minimum of one (1) survey crew to work exclusively on CRA project.
- Be able to assign at least one Professional Surveyor and Mapper to supervise each group of no greater than five (5) field crews.
- Be able to provide crew competent in topographic surveys, construction layout and as-built surveys. On occasion, limited hydrographic work may be required. The consultant shall be responsible for

providing the necessary personnel, equipment and expertise to perform this task. Hydrographic survey personnel need not be full-time employees of the consultant but their utilization must be approved by the CRA, prior to any work being done on this project.

- Survey needs to accurately depict rights of ways.
- Elevation cross sections of 50 foot stationed intervals (10 feet spacing on pavement) need to be provided when topographic work is ordered. Right-of-way cross sections, need to include: Back of sidewalk, type and top of curb, gutter line, edge of pavement, centerline/median and intersection centerline.
- Elevations must be accurate to 1/100 of a foot at all building entrances, driveways, sidewalk, top or curb, edge of pavement, and low points and 1/10 of a foot at natural ground.
- All existing improvements should be located and identified on the survey (unless exclusively specified in the project scope) and includes but is not limited to: Buildings, manholes, pipe inverts, utility poles, utility boxes, fire hydrants, traffic signs, underground and overhead utilities, trees, fences, hedges, existing pavement markings and signal equipment.
- Perform all survey work utilizing total stations capable of measuring angles to within 5 seconds of arc and collecting data electronically in a format compatible with appropriate surveying software.
- Copies of the data collection files, field notes and other pertinent survey files may be requested by the CRA for any and all projects.
- Eagle Point surveying software is recommended for use with the projects assigned under the terms of this proposal but is not required if an alternative software can create a similar output. The surveying software must produce all electronic survey files utilizing the CRA field codes and block definitions. The current field code libraries and block definitions will be provided with each assignment.
- Produce all work in AutoCAD 2011 or a more recent version, compliant with the CRA CAD standards in force at the time of issuance of the task order.
- Have sufficient support staff, technicians, clerks, word processors etc, to effectively process and deliver the work product.
- Be accountable for all quality control associated with work done for the CRA under the terms of this agreement.
- Keep current all required insurance coverage sufficient to cover the projected liability of all projects assigned to the consultant. The potential liability exposure will be determined for each project at the time of its assignment.
- Be able to meet the agreed-on deadline for this project assigned in any one calendar year. Any changes to the scope of work after a project is assigned will provide an opportunity to revisit the delivery schedule and revise it as needed.
- Have access to and the expertise to operate GPS equipment to provide geographical or State Plane coordinate locations of control points or features as required.

SCHEDULE CONTROL

While all work authorizations must be executed in a timely fashion, it is critically important they are also performed responsively, in accordance with the City's schedule and budget objectives. Time is of the essence in preparing surveys. The depth of staff on this team of personnel, both in number and experience, allows us to satisfy these work authorization assignments for the City on this contract without sacrificing quality and responsiveness.

Our ability to work with City of Hollywood's staff will result in projects being completed on time and within budget.



We have found great success utilizing our detailed approach provided on previous pages that has led to effectively identifying schedule challenges and quickly defining solutions. Our approach, coupled with our experience and knowledge, details how KEITH can maintain and potentially recover schedule, to expedite assignments.

As your Consultant, the KEITH Team will:

- Prepare a realistic and achievable project schedule, which reflects the project's constraints. The schedule will be complete, allow room for flexibility, and focus on what is important to the City in order to deliver on commitments at key milestones.
- Develop accurate and complete project scopes that will be reviewed, as required.
- Monitor progress periodically as required and eliminate any "scope creep". This requires preventing foreseeable challenges, mitigating these challenges from unforeseen sources, and reversing or recovering from challenges that may arise from unforeseen circumstances.
- Establish a process to review and properly assign responsibility to recover any schedule pitfalls. Establish a mechanism for prompt resolution and payment (i.e., including alternative dispute resolution procedures).
- Arrange for task-oriented meetings as required to review the work and schedule to increase efficiency (i.e., by enhancing productivity, optimizing schedule overlaps, reducing work, etc.).

HOW KEITH BENEFITS THE CITY OF HOLLYWOOD

Our staff combines the technical experience of a diverse pool of professionals with an extensive working knowledge of local and regional projects, emphasizing on governmental land development and re-purposing projects. KEITH is well-equipped to prepare surveys for Phase IV Streetscape and A1A project within the Beach CRA district from Hollywood Boulevard to Hallandale Beach Boulevard between the intracoastal waterway and the ocean. We have successfully completed work on wide range of assignments such as design surveys, construction layouts, boundary surveys, preparation of sketches and legal descriptions, mapping, AutoCad drafting, calculations and other related surveying and mapping projects. The KEITH Team has the blend of experienced professionals to handle every aspect of the contracts needs from start to finish.

METHODOLOGY AND RATIONALE FOR THE PROPOSED APPROACH

The KEITH Team has placed a strong emphasis on quality surveying and mapping practices and procedures. Technology has provided today's Surveyors and Mappers with tremendous tools that have greatly minimized the difficulties of measurement accuracy and precision; however, the art and legal principles of surveying and mapping remain unchanged today. Our knowledge of the South Florida community and our subsequent database of infrastructure surveys ensure that our surveying and mapping approach and methodology will result in accurate and defensible, boundary surveys and right-of-way determinations, together with awareness of applicable title issues and/or problems.

The first step in any assignment is to discuss the scope and schedule of the project with the City's Project Manager. Although the scope has been briefly identified in the RFQ, KEITH will take the opportunity to ensure there's a clear understanding of the City's needs for this assignment. The Project Manager will develop a Survey Management Plan (SMP) for the project to include the project-specific quality control plan, tracking schedule and budget.

Once an SMP has been established for the project, the City Project Manager and the KEITH Team will ensure that our Project Manager adheres to the details. Additionally, we will provide a discovery of scope to see how we could potentially reduce schedule and/or cost to complete these assignments.

Based upon our initial inspection of the project areas, some examples of how we can improve service to the City for these assignments is as follows:

- Defining tasks to be performed and delivered
- Special instructions
- Assessment of Safety / MOT concerns
- Research / develop work plan & constraints
- Define equipment and method of collecting data

PROJECT CONTROL RESEARCH

The Project Surveyors will research suitable NGS control points and any Certified Corner Records that are available in or near the project areas. This research will be accomplished using the LABINS database in coordination with KEITH's in-house GIS control database. This GIS database drastically increases the productivity of searching for control points by use of expanded search criteria.

SCOPE AND UNITS ESTIMATES

After acquiring an understanding of the services needed to complete the assigned project, as well as an understanding of the sequence of tasks to be accomplished we can perform an informed development of the scope of services, schedule and project fee.

MOBILE LIDAR

In addition to our standard surveying services, KEITH also offers in-house Mobile LiDAR. Mobile LiDAR is revolutionizing the way that roadways and other corridors are surveyed. It is faster, more detailed and has less impact on the public than any other surveying method. With Mobile LiDAR, we are able to collect a million data points per second while driving a vehicle under normal traffic conditions with no impact on other vehicles and pedestrians. Having a local, in-house Mobile LiDAR capability gives KEITH unrivaled responsiveness and flexibility to meet your needs.



NEGOTIATIONS

The scope of services, schedule, and fee is submitted to the City's Project Manager and negotiations are conducted to establish a fair and competitive cost. KEITH prides itself on providing reasonable fee's and work plans to work within the budgets the City establishes.

WRITTEN AUTHORIZATION

No work is performed without written authorization to proceed from the City. Upon notice to proceed, Mr. Powers, PSM, will be responsible for all research, staff assignments, and execution of the authorized work effort, while continuously coordinating with the Ms. Dodie Keith-Lazowick, PLS, the Quality Control Surveyor, working with the team to ensure high standards are maintained throughout the project duration.

PROJECT KICK-OFF MEETING

Every work order begins with a mandatory kick-off meeting with all key members. These key office and field personnel are updated with the scope of services, schedules, specific work assignments, roles and responsibilities of staff members and project concerns.



SAFETY

Critical importance is the safety of the public, the landowners and the survey field personnel. Our work programs emphasize the safety elements concerning all three. The key to an effective Field Survey Safety Program is continuous supervision and education. Mr. Powers along, with our Field Review and Safety Supervisor Mr. Sean Marshall will oversee all field activities for these assignments. These Team members provide decades of field experience and institutional knowledge. Our field staff has received both the MOT Safety Training currently required by the Florida Department of Transportation, OSHA general industry and construction safety, as well as Red Cross First Aid training and certification.

In order to direct the public through a roadway work area, full compliance with the current FDOT Roadway and Traffic Design Standards (600 Series), Survey Safety Handbook and current MOT DOT Topic No. 625-010-010 is required for every project. This includes Title 29, Code of Federal Regulations, Parts 1910 and 1976, and Occupational Safety and Health Regulations. All KEITH personnel are familiar and required to comply with these standards and procedures.

All our field personnel have received MOT safety training currently required by the FDOT for work within public roadways. Specialty crews have additional certifications for O.S.H.A. Confined Space Entry requirements for general industry and construction, CSX Contractors Safety & Roadway Worker Protection Certification and general job site safety certifications. Additionally, our office and field personnel have Security Identification Display Area (SIDA) badges for access to Department of Homeland Security/TSA Airside Operations Areas at International Airports and Transportation Worker Identification Credential (TWIC) badges for high security areas within deep-water seaports.

DELIVERABLES/FORMAT

All work will be performed in accordance with Florida Standards of Practice for Surveyors and Mappers, 5J-17.052, Florida Administrative Code, pursuant to Chapter 472.027, Florida Statutes and the specific City required standards and procedures. At the completion of the work, all files are transferred to the City with an itemized transmittal letter and CD (or electronic file submission) with all the surveying and mapping information. A Surveyors Report will accompany all deliverables, summarizing the scope and effort to complete the scope, note the Horizontal and Vertical datums and will be signed and sealed by the Surveyor, along with an electronic copy of the report placed in the electronic information (file) supplied to the City.

QUALITY ASSURANCE/QUALITY CONTROL

A major aspect of the Project Management and the quality commitment to these assignments is the independent peer review as part of our contract Quality Control/Quality Assurance program. Quality is obtained by successfully providing proper project approach, constant project supervision and communication, complete project documentation, active senior management and a final formal quality review prior to submission to the City.

Quality Control reviews are performed at many levels by key staff throughout the project timeline, including daily field reviews, weekly project status reviews, milestone reviews, and closures/data/calculations reviews. The KEITH Team has a detailed QA/QC plan that is both practical and effective and is implemented on every

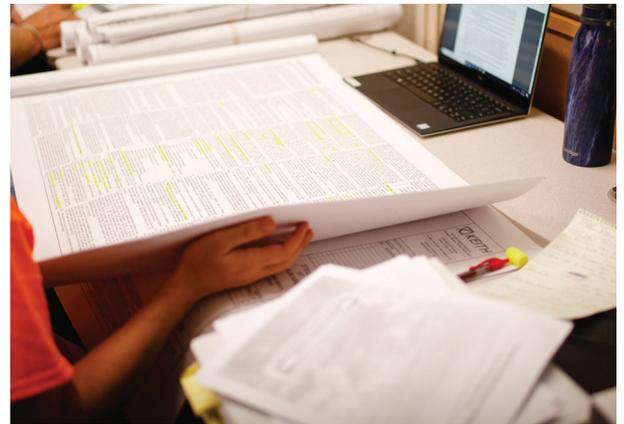
assignment to assure the City receives the quality work they desire. Ms. Keith-Lazowick, PLS as Principal-in-Charge and Quality Assurance Program Oversight for the firm, has the ultimate responsibility for the Team.

We will utilize our Quality Assurance/Quality Control Plan consisting of the following four (4) key principles:

1. **Proper Project Approach:** Quality is achieved through adequate planning, coordination, supervision, and technical direction, The Project Manager will discuss with the City the project's scope of work, type of survey needed and the type of applicable standards that need to be met above MTS (standards of practice) per Chapter 5J-17.052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
2. **Constant Project Supervision and Communication:** Quality is achieved by conveying the scope and special instructions to the office and field staff together with daily checking and reviewing of their work effort and progress.
3. **Active Senior Management:** Quality is assured by the Senior Management maintaining schedules and providing the proper technical directions to the team assigned. They also provide the independent reviews of the processes, procedures, and project documentation to result in the deliverable required.
4. **Formal Quality Reviews:** Quality of the deliverables and the procedures is verified by the designated QA/ QC Manager. A final check of the deliverables is performed by the Project Manager and the QC Professional Surveyor and Mapper on every project prior to submission to the City.

WORKLOAD MANAGEMENT

KEITH manages its long and short-term workload through a policy of proactive management, resources and informaton sharing. Our diverse staff wear many hats; we have committed to the time and energy required to meet the schedule requirements for these assignments. The schedule will be maintained by Senior management oversight and weekly interaction, this guarantees our team will deliver the projects successfully.



Given our current and projected workloads, KEITH can and will provide the personnel and resources to exceed the expectations of the City for these assignments.

WE KNOW AGENCY STAFF, STANDARDS AND PROCEDURES

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

Ms. Keith-Lazowick, PLS, as Owner and President of the Firm and being a Professional Surveyor and Mapper, assures the our clients receive the best responsiveness and commitment to Surveying and Mapping they deserve. We are a firm founded by surveyors and owned and operated by a surveyor to this day. Ms. Keith-Lazowick's years of experience and her particular emphasis on governmental multi-tasked contracts, as well as her familiarity with adapting to specific client standards, will provide the necessary leadership for this contract.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/14/2019

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 Frank H. Furman, Inc. 1314 East Atlantic Blvd. P. O. Box 1927 Pompano Beach FL 33061		CONTACT NAME: Josette Toussaint PHONE (A/C, No, Ext): (954) 943-5050 FAX (A/C, No): (954) 942-6310 E-MAIL ADDRESS: josette@furmaninsurance.com															
INSURED Keith & Associates Inc 301 E Atlantic Boulevard Pompano Beach FL 33060		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Charter Oak Fire Ins Co (tl)</td> <td>25615</td> </tr> <tr> <td>INSURER B: Travelers Indemnity Co of America</td> <td>25666</td> </tr> <tr> <td>INSURER C: Travelers Property Casualty Co of America</td> <td>25674</td> </tr> <tr> <td>INSURER D: AXIS Insurance Company</td> <td>37273</td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Charter Oak Fire Ins Co (tl)	25615	INSURER B: Travelers Indemnity Co of America	25666	INSURER C: Travelers Property Casualty Co of America	25674	INSURER D: AXIS Insurance Company	37273	INSURER E:		INSURER F:	
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COVERAGES CERTIFICATE NUMBER: 19-20 MASTER REVISION NUMBER:

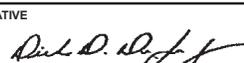
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE 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 SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		660 1J2155564	02/19/2019	02/19/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/PROP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
B	<input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY		810 3L462444	02/19/2019	02/19/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED: RETENTION \$		CUP 0J961409	02/19/2019	02/19/2020	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	UB 0K053961	02/19/2019	02/19/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liability		DP002191-03-2019	03/13/2019	03/13/2020	Each 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)
Sample

CERTIFICATE HOLDER

CANCELLATION

SAMPLE SAMPLE	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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ACORD 25 (2016/03)

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**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, 2019, that its most recent annual report/uniform business report was filed on February 5, 2019, and that its status is active.

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

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



Rainald R. Abernethy
Secretary of State

Tracking Number: 7798248538CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Fillings/CertificateOfStatus/CertificateAuthentication>

KEITH: Florida Article of Incorporation



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

KEITH & ASSOCIATES, INC.
301 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FL 33060

LICENSE NUMBER: CA7928
EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.
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KEITH: Professional Engineer



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

License No.: **LS4105**
Expiration Date: February 28, 2021

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

ADOLPHINE MARIE LAZOWICK
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

Dodie Keith-Lazowick, PSM



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

License No.: **LB6860**
Expiration Date: February 28, 2021

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

KEITH AND ASSOCIATES INC
301 EAST ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

KEITH: Professional Surveyor and Mapper



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

License No.: **LS5872**
Expiration Date: February 28, 2021

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

ERIC EDMUND WILHELM
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

Eric Wilhelm, PSM



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

License No.: **LS6805**
Expiration Date: February 28, 2021

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

LEE POWERS
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060-6643

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

Lee Powers, PSM

7/14/2019 Gift Giver's Guide

**FIND A BUSINESS OR INDIVIDUAL
License / Complaint Lookup**
AS MAINTAINED BY THE DIVISION OF CONSUMER SERVICES

License Type	License#	Issued	Expires	Status
Surveyor and Mapper	LS7165	02/09/18	02/28/21	Active
Surveyor of Record For	LB8157	07/13/16	02/28/21	Active

Complaints 0
[Print](#)

Todd Bates, PSM



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

License No.: **LS5660**
Expiration Date: February 28, 2021

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

MICHAEL MARK MOSSEY
11311 NW 37 ST.
SUNRISE, FL 33323

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

Michael Mossey, PSM



KEITH

Engineering Inspired Design.