



RFQ #276-11831
ENGINEERING SERVICES - MASTER DRAINAGE/CONCEPTUAL ENVIRONMENTAL RESOURCES PERMIT
OCTOBER 28, 2016 - 2:00 PM

SUBMITTED BY

KEITH
& ASSOCIATES, INC.
consulting engineers

WITH

RS&H



tierra
SOUTH FLORIDA
GEOTECHNICAL ENGINEERING / MATERIAL TESTING / INSPECTION SERVICES

CAM 17-0337
EXHIBIT 4
Page 1 of 67

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RFQ 276-11831
Engineering Services - Master Drainage/Conceptual
Environmental Resources Permit

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KEITH
& ASSOCIATES, INC.
consulting engineers

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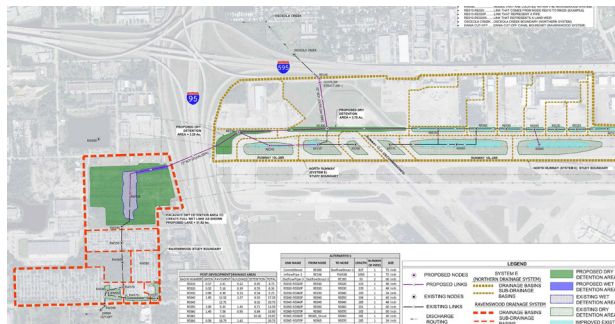
DEAR SELECTION COMMITTEE MEMBERS:

Successful projects begin with the commitment of the most qualified and experienced professionals who understand the project related issues and also understand their clients' needs. KEITH AND ASSOCIATES, INC., is well-suited to meet the City's requirements for Master Drainage/Conceptual Environmental Resources Permit at Fort Lauderdale Executive Airport (FXE), as we have recent experience in working with the SFWMD to facilitate project approvals within aviation facilities, while also having worked the past several years at FXE as a subconsultant. RS&H and Tierra South Florida comprise the balance of our team. They have a long history of successfully working with aviation partners, particularly in South Florida. Through the breadth and depth of our entire team, we offer the City of Ft. Lauderdale the technical expertise, reliability, responsiveness and dedication necessary for the successful completion of this contract.

FIRM OVERVIEW

KEITH AND ASSOCIATES, INC. was incorporated as a Florida corporation in 1998. 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. As a mid-size closely-knit firm, we provide Civil Engineering, Urban and Comprehensive Planning, Surveying and Mapping, Subsurface Utility Engineering (SUE), Landscape Architecture, Construction Management, Geographic Information Systems (GIS) and Building Information Modeling (BIM) Technology services.

KEITH AND ASSOCIATES, INC. 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. Our professional staff is fully trained in Civil 3D, as well as Civil BIM modeling and our survey staff is utilizing the latest 3D laser scanning technology. Our corporate headquarters located in Pompano Beach will service this contract.

FORT LAUDERDALE/HOLLYWOOD INTERNATIONAL
AIRPORT NORTHERN RAVENSWOOD DRAINAGE STUDY

KEITH AND ASSOCIATES, INC. has completed an array of landside and airside projects at aviation facilities and has provided services including drainage design, environmental permitting, water/wastewater engineering, utility coordination, contract administration, airside construction inspections/management, construction management, document control, observations/inspections, schedule and cost controls and contract close-out certifications. Our experienced and qualified inspection staff are trained in providing Construction Engineering and Inspection (CEI) services. Our inspection staff members are CTQP (Construction Technician Qualification Program) certified. From construction managers to technical inspection personnel, our highly efficient team has the capabilities to support public agencies, governmental municipalities and State agencies.

The Key individuals introduced here will be further discussed throughout this response submittal. They will work out of our corporate headquarters located in Pompano Beach.

Dodie Keith-Lazowick, PSM	Principal-in-Charge
James Thiele, PE	Senior Project Manager
Alex Lazowick, PE	Assistant Project Manager
Stephen Williams, PE	QA/QC Manager

2 - EXECUTIVE SUMMARY

KEY ELEMENTS OF THIS SOQ

Our understanding is that the proposed Master Drainage Plan will outline design criteria and structural controls for water management systems for FXE. It will include both an Existing Conditions Component and a Future Conditions Component. The Existing Conditions Component establishes the baseline water quality and flood impact conditions. The Future Conditions purpose is to identify methods to meet or improve baseline conditions as development occurs. The total document will be used to apply for a Conceptual Environmental Resource Permit from BCEPGMD. This will establish the approach and criteria for up to a 20-year planning horizon. BCEPGMD construction permits will still be required for new development and some re-development but the water management approaches, and in some cases the actual facilities, will be pre-established. The water management systems and approaches will also be pre-approved by FAA when the plan is complete. Safety improvements, monetary savings and permitting time reductions are expected benefits.

WE ARE THE TEAM YOU CAN TRUST TO GET THE JOB DONE

We greatly appreciate your consideration of this qualifications package and are excited at the prospect of working with the City of Ft. Lauderdale, and with FXE, while supporting FXE's mission to grow business opportunities within our community. We offer the City of Fort Lauderdale and FXE our team's experience and as a locally based firm, we have a further personal vested interest in the success of these projects for the benefit of Broward County. Our local team has lived here before these projects; we will live here during the projects and will live here long after the projects are completed. We thank you for your consideration.

Sincerely,



Dodie Keith-Lazowick, P.L.S
President
dkeith@keith-associates.com

KEITH
& ASSOCIATES, INC.

3 - FIRM QUALIFICATIONS AND EXPERIENCE

KEITH AND ASSOCIATES, INC. is a Florida corporation whose professional 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 95 professionals with an extensive working knowledge of local and regional projects, with particular emphasis on aviation projects within Broward county. This convergence of experience has resulted in the development of important relationships with key agencies, in addition to a tremendous database of knowledge and information concerning local, past and ongoing projects, which is an invaluable asset we can provide to our clients.

Keith and Associates, Inc.

301 East Atlantic Boulevard
Pompano Beach, FL 33060

(p) 954.788.3400

(f) 954.788.3500

www.keith-associates.com

Contact: James Thiele, P.E.

jthiele@keith-associates.com

KEITH AND ASSOCIATES, INC., is certified as a Disadvantaged Business Enterprise (DBE). The Firm also holds Florida Department of Transportation (FDOT) qualification in several FDOT Work Groups. These include 3.1 Minor 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 and 15. Landscape Architecture.

KEITH AND ASSOCIATES, INC. values sustainable design infrastructure. Where applicable, we utilize building materials and resources that reduce our ecological footprint while at the same time enhance our experience through our surroundings. We are currently providing integrated engineering design components on a number of public facilities to facilitate a designation of a LEED-Certified Building and several employees have LEED designations.

AVIATION EXPERIENCE

We understand an airport encompasses all facets of transportation including public transportation (busses, taxis and shuttles), pedestrian traffic, vehicular parking and roadways in addition to the aviation components. Over the last 18 years, KEITH AND ASSOCIATES, INC. and our supporting consulting team partners have successfully completed the design, permitting, construction and certification of numerous transportation, utility and pavement projects at Broward County airports.

We also understand the many challenges faced with improving and maintaining the transportation, utility infrastructures and the aviation infrastructure at these facilities and have demonstrated our ability to provide quality, functional designs, while maintaining budget parameters and expediting schedule requirements.

KEITH AND ASSOCIATES, INC. has been most effective in our various roles because we have built a truly local team focused on Broward County aviation projects. Our extensive aviation related experience provides us with a real understanding and respect for the numerous stakeholders, consultants, contractors and agencies that must work concurrently, effectively and in harmony for airport improvement projects to culminate in success.

Facility / Project Name	Type
FXE Taxiway Bravo Resurfacing	Airfield
FXE Customs Building	Building
FXE Taxiway C & D Rehabilitation	Airfield
FXE Taxiway Echo	Airfield
FXE Taxiway Charlie	Airfield
FXE Taxiway Intersection Improvements	Airfield
FXE Taxiway Foxtrot Pavement Rehab	Airfield
FLL Runway 13-31 Rehab	Airfield
FLL Utility Atlas Update	Airfield
FLL Runway 9L-27R Correction Action Plan	Airfield
FLLGEC	Airfield
FLL Sky Chef Building	Building
FLL Airfield Mods TW C	Airfield
FLL Horeshoe Area Survey	Airfield
FLL Taxiway C West	Airfield
FLL Reference Benchmarks for Concourses	Airfield
FLL North Perimeter (Bus Lanes)	Airfield
FLL Northern, Westside & Ravenswood Drainage System	Airfield
FLL NE Pond Irrigation Pipeline	Airfield
FLL North Perimeter Road	Airfield
FLL Ft. Lauderdale Public Safety Facility	Building
FLL Utility Atlas Phase II	Airfield
FLL New South Runway (10R-28L)	Airfield
FLL Water Main (WM) and Force Main (FM) Packages	Airfield
FLL Southwest Airlines T1 Concourse A	Building
FLL Maintenance Facility	Building
FLL T4 Gate Replacement	Building
FLL T1 Curbside Canopy	Building
FLL Master Plan Update	Airfield
PMP Master Drainage	Airfield
PMP Sheltair Hangar	Building



3 - FIRM QUALIFICATIONS AND EXPERIENCE

FIRM LICENSES AND CERTIFICATIONS

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 P9800006011.

I further certify that said corporation has paid all fees due this office through December 31, 2016, that its most recent annual report/uniform business report was filed on January 4, 2016, 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 Fourth day of January, 2016



Ken Putnam
Secretary of State

Tracking Number: CC4834396644

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

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

State of Florida

Board of Professional Engineers

Attests that
Keith & Associates, Inc.



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2017
Audit No: 228201703599

CA Lic. No:
7928



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, 2017

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

Adam H. Putnam

ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
VALID OCTOBER 1, 2016 THROUGH SEPTEMBER 30, 2017

DBA: KEITH & ASSOCIATES INC
Business Name: Receipt #: 315-756
Business Type: ENGINEER (ENGINEER)
Owner Name: ROBERT F MCWHERNEY PE
Business Location: 301 E ATLANTIC BLVD
POMPANO BEACH
Business Phone: 954-788-3400
Business Opened: 12/08/1998
State/County/Cert/Reg: PE47506/7928
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals		
		5				
For Vending Business Only						
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT
WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
ROBERT F MCWHERNEY PE
301 E ATLANTIC BLVD
POMPANO BCH, FL 33060

Receipt: #05C-15-00005617
Paid 08/11/2016 30.00

2016 - 2017

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
VALID OCTOBER 1, 2016 THROUGH SEPTEMBER 30, 2017

DBA: KEITH & ASSOCIATES INC
Business Name: Receipt #: 319-3322
Business Type: ALL OTHERS (LAND
Owner Name: ADOLPHINE M LAZOWICK
Business Location: 301 E ATLANTIC BLVD
POMPANO BEACH
Business Phone: 954-788-3400
Business Opened: 12/08/1998
State/County/Cert/Reg: LS4105
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals		
		5				
For Vending Business Only						
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

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WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
ADOLPHINE M LAZOWICK
301 E ATLANTIC BLVD
POMPANO BEACH, FL 33060

Receipt: #05C-15-00005617
Paid 08/11/2016 30.00

2016 - 2017



3 - FIRM QUALIFICATIONS AND EXPERIENCE

SUBCONSULTANT FIRM LICENSES AND CERTIFICATIONS

State of Florida
Department of State

I certify from the records of this office that RS&H, INC. is a corporation organized under the laws of the State of Florida, filed on December 28, 1989, effective December 31, 1989.

The document number of this corporation is L38717.

I further certify that said corporation has paid all fees due this office through December 31, 2016, that its most recent annual report/uniform business report was filed on January 4, 2016, 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 Fourth day of January, 2016





Ken Detjen
Secretary of State

Tracking Number: CC4692137509

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

State of Florida
Board of Professional Engineers
Attests that
RS&H, Inc.





is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2017
Audit No: 228201702275

CA Lic. No: 5620

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
VALID OCTOBER 1, 2016 THROUGH SEPTEMBER 30, 2017

DBA: Business Name: RS & H INC
Owner Name: RS & H INC
Business Location: 3125 W COMMERCIAL BLVD 130 FT LAUDERDALE
Business Phone: 954-474-3005

Receipt #: 315-679
Business Type: ENGINEER (CORP-ENGINEER)
Business Opened: 02/27/2007
State/County/Cert/Reg: 47555
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		11		

Number of Machines:					For Vending Business Only		Vending Type:	
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid		
49.00	0.00	0.00	0.00	0.00	0.00	45.00		

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT
WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
RS & H INC
3125 W COMMERCIAL BLVD 130
FORT LAUDERDALE, FL 33324

Receipt #02C-16-00000012
Paid 10/03/2016 45.00
09/30/2016 Effective Date

2016 - 2017

State of Florida
Department of State

I certify from the records of this office that TIERRA SOUTH FLORIDA, INC. is a corporation organized under the laws of the State of Florida, filed on October 7, 2003, effective October 17, 2003.

The document number of this corporation is P03000110144.

I further certify that said corporation has paid all fees due this office through December 31, 2016, that its most recent annual report/uniform business report was filed on January 4, 2016, 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 Fourth day of January, 2016



Ken Detjen
Secretary of State

Tracking Number: CC7260819022

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

State of Florida
Board of Professional Engineers
Attests that
Tierra South Florida, Inc.





is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2017
Audit No: 228201702527

CA Lic. No: 28073



3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Master Drainage/Conceptual Environmental Resources Permit (Fort Lauderdale, Florida)

2. PUBLIC NOTICE DATE

September 21, 2016

3. SOLICITATION OR PROJECT NUMBER

266-11831

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Ms. Adolphine "Dodie" Keith-Lazowick, PLS, President

5. NAME OF FIRM

Keith and Associates, Inc.

6. TELEPHONE NUMBER

(954) 788-3400

7. FAX NUMBER

(954) 788-3500

8. E-MAIL ADDRESS

dkeith@keith-associates.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.	✓			 <input type="checkbox"/> CHECK IF BRANCH OFFICE	301 East Atlantic Boulevard Pompano Beach, FL 33060	Civil Engineering, Survey, SUE
b.			✓	 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3125 W. Commercial Boulevard, Suite 130 Fort Lauderdale, FL 33309	Civil Engineering
c.			✓	 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Geotechnical Engineering
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

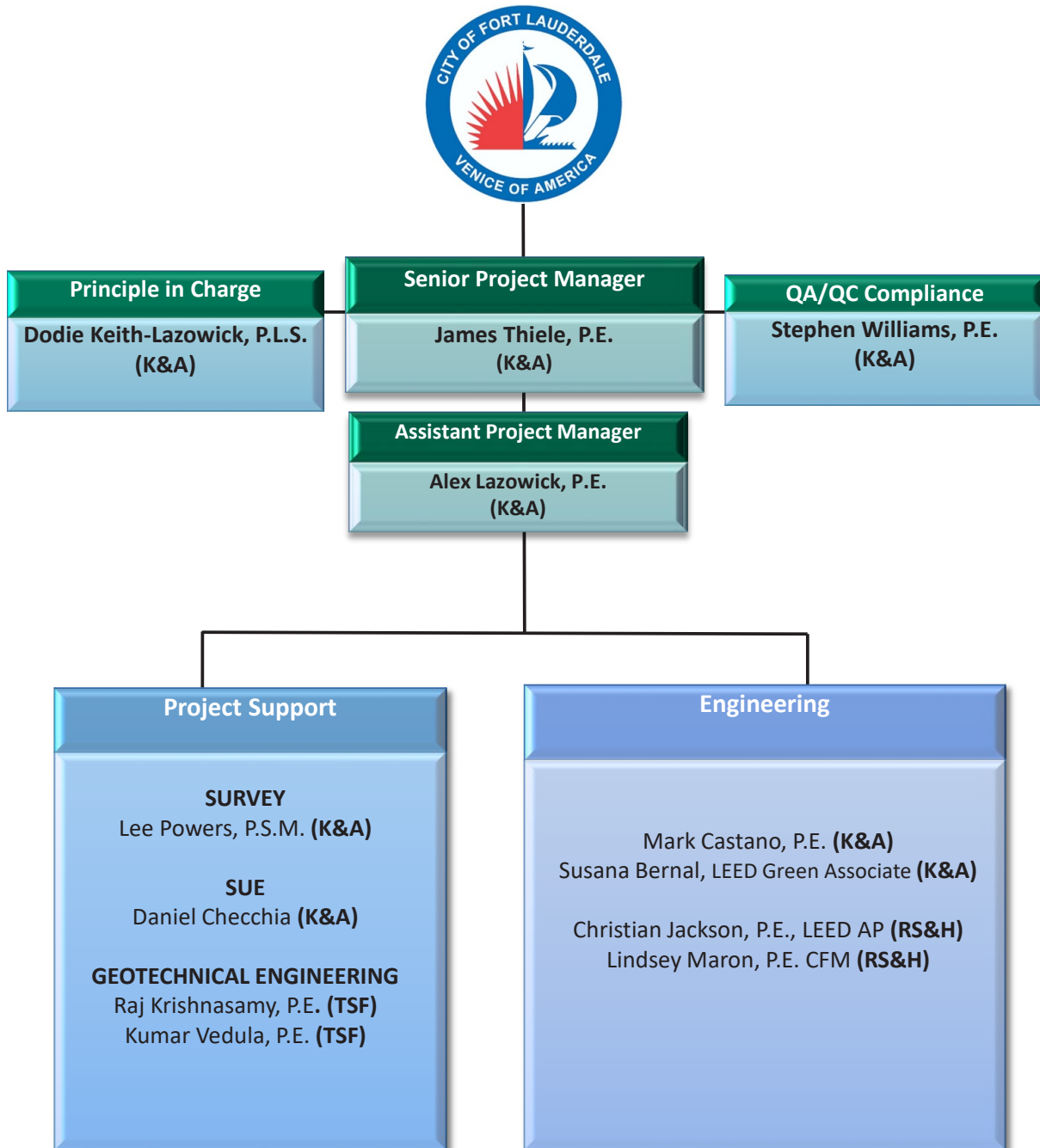


3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

✓ (Attached)



Legend

Keith and Associates (K&A)

RS&H (RS&H)

Tierra South Florida (TSF)



3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME A. Dodie Keith-Lazowick, P.L.S.		13. ROLE IN THIS CONTRACT Principal in Charge	
		14. YEARS EXPERIENCE a. TOTAL 40 b. WITH CURRENT FIRM 10	
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Land Surveying, University of Florida, 1982		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor & Mapper, Florida, License No. 4105	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Survey and Mapping Society (F.S.M.S.), Broward County Chapter of F.S.M.S., American Congress on Surveying and Mapping, National Society of Professional Surveyors, Co-editor, "Laws and Regulations Affecting Surveying Practice in Florida," ACSM/ FSPLS Student Chapter, 1982, Co-author, "Total Station Capability," Board Appointed, 2008 Girl Scouts of Broward County's Community Partnership Award			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Professional Consultant Services for Fort Lauderdale-Hollywood International & North Perry Airports, Utilities & Pavement Projects (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES On-going CONSTRUCTION (If applicable) On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Keith-Lazowick is serving as the Contract Manager for 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		
b.	(1) TITLE AND LOCATION (City and State) 10R/28L Runway Expansion Lead Design Team at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Principal Contract Manager, Ms. Keith-Lazowick was responsible for the general oversight and coordination of the preliminary engineering and design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000 foot runway expansion project. Additional responsibilities included the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project. <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Utility Atlas Updated for South Runway Expansion at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Keith-Lazowick served as the Contract Manager for this extensive 550 + acres project consisting of engineering design surveys, establishing geodetic and vertical control, drainage as-builts, subsurface utility engineering and aerial photography survey support. The utility atlas is an ongoing effort compiling years of historic as-built and record drawing information as well as current surface and subsurface utility infrastructure. New information from ongoing construction projects throughout the airport is being added to the atlas and made available to the airport's consultants and sub-consultants to assist in their design needs. <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) South Florida Water Management District (SFWMD) Miscellaneous Surveying (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a subconsultant, Keith and Associates 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. <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Rehabilitation/Resurfacing of Various Taxiways and New Customs Building- Fort Lauderdale Executive Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES On-going CONSTRUCTION (If applicable) On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Since 2008, Ms. Keith-Lazowick has served as the QA/QC officer for topographic surveys used for the Rehabilitation and/or Resurfacing of Taxiways B, C&D, E and F, as well as the new Customs Building. <input checked="" type="checkbox"/> Check if project performed with current firm		

STANDARD FORM 330



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3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME James Thiele, P.E.	13. ROLE IN THIS CONTRACT Senior Project Manager	14. YEARS EXPERIENCE a. TOTAL 37 b. WITH CURRENT FIRM 10	
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, University of Miami, 1978		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, License No. 33256 Professional Engineer, Commonwealth of Pennsylvania, No. 53735	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Northern and Ravenswood Drainage Study at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2015	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 a. With the construction of the new runway and decommissioning of the Westerly runway the County is interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this the overall drainage system of the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. Keith and Associates performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water runoff.		
Airport Expansion Program Water and Sewer Force Main Relocation/Up-grades at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. As With the planning of runway 10R-28L it was necessary to relocate/up-grade the airports transmission water mains and sewer force mains that were in conflict with the new improvements. This included the design, permitting and construction administration of eight (8) separate design packages that totaled over 19,000 ft of new water main and force main transmission lines that serve the airport. It was also necessary to prepare four (4) separate demolition design packages for the removal of the existing lines. Mr. Thiele coordinated these permit applications and the certification packages expeditiously with the agencies and kept BCAD/ PMO informed of the progress of these completions throughout the term of these projects..		
Canopy Projects at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2013	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 c. Following the hurricanes of 2004, the County desired to replace the shade canopies along the terminal walkways for the upper level ticketing/ departure approach for terminals 1, 2 and 3. Keith and Associates prepared design plans for the demolition requirements of this project and civil design aspects of this project. This project includes installation of a canopy at the Economy Parking area. Keith and Associates is also providing a full time resident project inspector for the construction of this project. Through our relationships with Broward County EPGM, we were able to quickly obtain a stormwater permit exemption for this project.		
Master Plan Update at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) On-going
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. The ADPD (Airport Development Plan Definition) is the first part of a two-phase update process for the FLL Master Plan, which addresses the expansion of FLL terminals and ancillary facilities from 2010 - 2020. The ADPD process will provide County decision-makers with a range of potential future scenarios for the full build-out of FLL landside and terminal facilities. Keith and Associates prepared draft Comprehensive Plan Amendments for the Comprehensive Plan of Broward County, City of Fort Lauderdale, City of Hollywood and City of Dania Beach for consistency with Florida State Statutes and the FLL Airport Master Plan. This work has extended to include the modernization of terminals 2 and 3.		
Professional Consultant Services for Fort Lauderdale-Hollywood International & North Perry Airports, Utilities & Pavement Projects (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) On-going
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Thiele is serving as the Senior Project Manager for 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.		

STANDARD FORM 330



3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Alex Lazowick, P.E.	13. ROLE IN THIS CONTRACT Assistant Project Manager	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 6</td> <td>b. WITH CURRENT FIRM 6</td> </tr> </table>		a. TOTAL 6	b. WITH CURRENT FIRM 6
a. TOTAL 6	b. WITH CURRENT FIRM 6				
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, University of North Florida, 2010		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, License No. 78625			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ASCE Member, FES Member, BIM Smart Foundation, Member, BuildingSMART Foundation Member. Certifications: Asphalt Paving Technician Level 1 & 2 (FDOT), Earthwork Construction Inspection, Level 1 (FDOT), Concrete Field Technician, Level 1 (FDOT), Troxler Nuclear Gauge, Final Estimates Level 1 (FDOT), FDOT Workzone Traffic Control Intermediate Level MOT, OSHA 30-Hour					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Northern and Ravenswood Drainage Study at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2015</td> <td>CONSTRUCTION (If applicable) N/A</td> </tr> </table>		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A
PROFESSIONAL SERVICES 2015	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 a. With the construction of the new runway and decommissioning of the Westerly runway the County is interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this the overall drainage system of the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. Keith and Associates performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water run-off.				
(1) TITLE AND LOCATION (City and State) Airport Expansion Program Water and Sewer Force Main Relocation/Up-grades at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2013</td> <td>CONSTRUCTION (If applicable) 2016</td> </tr> </table>		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2016
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2016			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. As with the planning of runway 10R-28L it was necessary to relocate/up-grade the airports transmission water mains and sewer force mains that were in conflict with the new improvements. This included the design, permitting and construction administration of eight (8) separate design packages that totaled over 19,000 ft of new water main and force main transmission lines that serve the airport. It was also necessary to prepare four (4) separate demolition design packages for the removal of the existing lines. Mr. Thiele coordinated these permit applications and the certification packages expeditiously with the agencies and kept BCAD/ PMO informed of the progress of these completions throughout the term of these projects..				
(1) TITLE AND LOCATION (City and State) Canopy Projects at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2013</td> <td>CONSTRUCTION (If applicable) 2015</td> </tr> </table>		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2015
PROFESSIONAL SERVICES 2013	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 c. Following the hurricanes of 2004, the County desired to replace the shade canopies along the terminal walkways for the upper level ticketing/ departure approach for terminals 1, 2 and 3. Keith and Associates prepared design plans for the demolition requirements of this project and civil design aspects of this project. This project includes installation of a canopy at the Economy Parking area. Keith and Associates is also providing a full time resident project inspector for the construction of this project. Through our relationships with Broward County EPGM, we were able to quickly obtain a stormwater permit exemption for this project.				
(1) TITLE AND LOCATION (City and State) Taxiway C West Reconstruction at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2013</td> <td>CONSTRUCTION (If applicable) 2014</td> </tr> </table>		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014			
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. (As a subconsultant to RS&H) This project is a taxiway reconstruction approximately 2,600 feet long, from Taxiway Delta to the west end of 9-Left, which includes asphalt, earthwork, lighting, signage pavement markings, and drainage. Mr. Lazowick provided CEI services checking material and installation observations, determination of quantities, compliance with specifications & coordination with contractor personnel.				
(1) TITLE AND LOCATION (City and State) Annual Civil Repair at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2014</td> <td>CONSTRUCTION (If applicable) 2014</td> </tr> </table>		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014
PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014			
(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 to RS&H) Mr. Lazowick has worked with RS&H on many of these task orders, such as: the Runway Patch, Runway 10L-28R remarking, North Runway Grooving, Runway Hold Marking Relocation, TW B West Approach Plans, ETC. Mr. Lazowick's role and involvement varied from project to project which included: design, plan and specification preparation, coordination, review & CEI.				

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3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen D. Williams, P.E.	13. ROLE IN THIS CONTRACT QA/QC Officer	14. YEARS EXPERIENCE	
		a. TOTAL 39	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., 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	
Various Projects at Fort Lauderdale Executive Airport (FXE), Fort Lauderdale, FL (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	1987	1988
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. Williams served as project engineer and project manager for several projects at FXE. These include: Airport Layout Plan where as Project Engineer he was responsible for preparation of FAA required Airport Layout Plan (ALP), including Property Map, FAR Part 77 Surfaces Map and Airfield Layout Plan. Environmental Assessment and Development of Regional Impact for Runway Extension where as Project Engineer he was responsible for Preparation of Engineering aspects (Drainage, Noise, Airfield geometry) of Environmental Assessment (EA) for 1,000 foot extension of Runway 8/26 to the west. Involved coordination with FAA, City, FBOs and the Public in preparation of document. Site paving and drainage plans for numerous fixed base operations where as Project Manager he Prepared paving, grading and drainage water and sewer plans for Whittington Brothers Aviation, World Jet on three sites on the north side of the Airfield.		
Eastside Engineering Study for Runway 27L Extension at Fort Lauderdale-Hollywood International Airport (FLL) Broward County Aviation Department, Fort Lauderdale, FL (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2005	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Mr. Williams investigated the feasibility of utilizing the Port Everglades Fill material for use in the new Air Carrier Runway embankment. Mr. Williams completed additional projects at FLL and North Perry Airport (HWO) including: Project 80's Expansion: Project Manager - Mr. Williams served to develop the water management program for the Terminal Project as a part of Project 80's expansion. The project entailed routing stormwater through the airfield and terminal area and through the new airport property, which discharged through the FDOT, US-1 drainage system. Mr. Williams also served to assist in the evaluation, Containment Assessment Plan, monitoring, recovery wells, permitting, remediation and construction coordination of fuel discovered in the soil and groundwater at the site of the old fuel depot at FLL, during the Project 80's expansion.(1978-1988) Airport Layout Plan for Fort Lauderdale/Hollywood International Airport (FLL) & North Perry Airport; Project Engineer - Mr. Williams work on the development of the ALP updates for both of Fort Lauderdale/Hollywood International Airport (FLL) & North Perry Airport.(1978-1985)		
Everglades Holiday Park, Fort Lauderdale, FL (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	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 Prime, Keith and Associates is providing comprehensive design, permitting, bid and construction phase services associated with site improvements at Everglades Holiday Park. The improvements include renovation, construction and/or reconstruction of boat docks, boat ramps, parking, ancillary buildings, limited utility infrastructure, other minor park related amenities and improvements. Mr. Williams is the project manager for this contract.		
Galleria Mall Expansion, Fort Lauderdale, FL (Fort Lauderdale, Florida)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	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 Mr. Williams is responsible for the civil engineering design and coordination for the expansion of the property, including approximately over four hundred rental units and parking spaces, hotel and store expansions.		
Port Everglades Southport Phase IX, Fort Lauderdale, Florida (Miami, Florida)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2016	On-going
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project entails the design, permitting and construction contract administration associated with the development of new cargo handling container yards. Mr. Williams is serving as the QA/QC manager, as well as Contract Manager.		

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3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Mark Castano, P.E.		13. ROLE IN THIS CONTRACT Project Engineer	
		14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering, Florida International University, 1997		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) State of Florida Professional Engineer License No. 75644	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Engineering Society (FES), American Society of Civil Engineers (ASCE)			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
10R/28L Runway Expansion Lead Design Team at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2016
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates provided preliminary engineering and design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000 foot runway expansion project. Additional responsibilities included the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Professional Consultant Services for Fort Lauderdale-Hollywood International & North Perry Airports, Utilities & Pavement Projects (Fort Lauderdale, Florida)		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable) On-going
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates is the Prime consultant for 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 task work order contract.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Master Drainage Plan at Pompano Beach Air Park (PMP) (Pompano Beach, Florida)		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates, Inc. served as a Sub-Consultant to Hanson Professional Services, Inc. and was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The project consisted of field reconnaissance, surveys and reviews of all available City information and data affecting drainage and storm drainage infrastructure, preparation of analyses, design reports, feasibility studies and design alternative, recommendations, along with associated project cost estimated for related infrastructure improvements, update of the SWMPPP and recommendations for implementation, monitoring and reporting, meetings and presentations before stakeholder groups, advisory boards and elected officials, preparation of required submittal packages for agency having jurisdiction		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Northern and Ravenswood Drainage Study at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE With the construction of the new runway and decommissioning of the Westerly runway the County is interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this the overall drainage system of the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. Keith and Associates performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water runoff.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Sheltair Hangar and Ramp Expansion Projects at Pompano Beach Air Park (PMP) – Pompano Air Park (Pompano Beach, Florida)		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2015
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Holland SheltAir Aviation Group leases 40.8 acres from the Pompano Beach Air Park, and Keith and Associates was retained by SheltAir to develop and process site plan drawings, perform civil engineering design for water, sewer, paving and drainage improvements, survey, subsurface utility locations, landscape architecture and provide construction phase services for the site improvements to support the addition of office/ hangar buildings approximately 96,100 SF of floor area on 19.6 acres of their leased property. Keith and Associates, as the Engineer of Record for these projects, was responsible for the modification of the Air Park Master Drainage Plan/Permits as required for the development of the proposed improvements as they now exist.		
		<input checked="" type="checkbox"/> Check if project performed with current firm	

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3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)			
12. NAME Susana Bernal, LEED Green Associate		13. ROLE IN THIS CONTRACT Engineering Manager	
		14. YEARS EXPERIENCE a. TOTAL 20 b. WITH CURRENT FIRM 14	
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering, EAFIT University, Columbia 1995		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Columbia No. 0520262447ANT	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Concrete Structural Design EAFIT University, Colombia, 1993, AutoCAD training and Microstation training, MEJIA VILLEGAS S.A. Consulting Engineers, Colombia, 1998, Turner School of Construction Management Certification, LEED Green Associate Certification			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) 10R/28L Runway Expansion Lead Design Team at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2016	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE With the construction of the new runway and decommissioning of the Westerly runway the County is interested in developing an area of the vacated land of the Westerly runway into commercial lease parcels. In order to consider this the overall drainage system of the Northerly runway needed to be evaluated with a proposed connection under I-95 to County owned property on the West side of I-95. Keith and Associates performed hydraulic calculations, considered viable options in construction of such an interconnection and developed a detailed report with cost estimates of the various options to route and manage the existing and proposed storm-water runoff.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Professional Consultant Services for Fort Lauderdale-Hollywood International & North Perry Airports, Utilities & Pavement Projects (Fort Lauderdale, Florida)		(2) YEAR COMPLETED PROFESSIONAL SERVICES On-going CONSTRUCTION (If applicable) On-going	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates is the Prime consultant for 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 task work order contract.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Canopy Projects at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2015	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Following the hurricanes of 2004, the County desired to replace the shade canopies along the terminal walkways for the upper level ticketing/ departure approach for terminals 1, 2 and 3. Keith and Associates prepared design plans for the demolition requirements of this project and civil design aspects of this project. This project includes installation of a canopy at the Economy Parking area. Keith and Associates is also providing a full time resident project inspector for the construction of this project. Through our relationships with Broward County EPGM, we were able to quickly obtain a stormwater permit exemption for this project.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Sheltair Hangar and Ramp Expansion Projects at Pompano Beach Air Park (PMP) – Pompano Air Park (Pompano Beach, Florida)		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2011 CONSTRUCTION (If applicable) 2015	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The ADPD (Airport Development Plan Definition) is the first part of a two-phase update process for the FLL Master Plan, which addresses the expansion of FLL terminals and ancillary facilities from 2010 - 2020. The ADPD process will provide County decision-makers with a range of potential future scenarios for the full build-out of FLL landside and terminal facilities. Keith and Associates prepared draft Comprehensive Plan Amendments for the Comprehensive Plan of Broward County, City of Fort Lauderdale, City of Hollywood and City of Dania Beach for consistency with Florida State Statutes and the FLL Airport Master Plan. This work has extended to include the modernization of terminals 2 and 3.		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Terminal 2 Expansion at Fort Lauderdale/Hollywood International Airport (Fort Lauderdale, Florida)		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) On-going	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates, working as a subconsultant, is responsible for the civil engineering design and permitting of the airside and landside water distribution and sanitary sewer improvements, as well as the paving and drainage improvements that are proposed landside. Our excellent working relationship with the staff at Broward County Water and Wastewater Services (BCWWS) has afforded us the ability to preview our proposed design work with them and obtain a fire flow modeling results from their staff early in the process. Numerous other subconsultants are involved in this project team and we have been coordinating and working closely with many of them in the mutual development of the design and construction drawings.		<input checked="" type="checkbox"/> Check if project performed with current firm	

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3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

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 Surveyor/GIS Specialist	
		14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., Pompano Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Land Surveying & Geomatics Engineering, Purdue University, 2005		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Florida Professional Surveyor & Mapper, #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			
a.	(1) TITLE AND LOCATION (City and State) Broward County Water & Wastewater Services (WWS) GPS/GIS Project (Broward County, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Powers served as the Project Surveyor for this utility location project. Once completed, this project will include sub-meter GPS observations on approximately 17,000 utility locations. This data will be used to populate/update the WWS GIS database.		
b.	(1) TITLE AND LOCATION (City and State) MLK Jr. Boulevard Improvements, Pompano Beach, Florida (Pompano Beach, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Roadway improvements along Martin Luther King Jr. Boulevard (a.k.a. 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.		
c.	(1) TITLE AND LOCATION (City and State) The Wave Modern Streetcar, Fort Lauderdale, Florida (Fort Lauderdale, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES On-going	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates 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 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.	(1) TITLE AND LOCATION (City and State) Fort Lauderdale-Hollywood International Airport Terminals Modernization (1, 2 and 3) Fort Lauderdale, Florida (Fort Lauderdale, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Keith and Associates, Inc. is currently serving as a Sub-Consultant to Gresham Smith and Partners for this Terminal Modernization project. Mr. Powers completed stakeout and as-builts for the repainting of the striping around Terminals 1, 2 & 3.		
e.	(1) TITLE AND LOCATION (City and State) South Florida Water Management District – General Services Contract (Fort Lauderdale, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Completed	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Powers served as the Project Manager and Project Surveyor for this contract. Mr. Powers completed over 35 projects for the District ranging from Blue-Booked Vertical Control (both conventional level and GPS methods) surveys, to county-wide GPS control surveys and large boundary surveys.		

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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 4	
15. FIRM NAME AND LOCATION (City and State) Keith and Associates, Inc., 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			
a.	(1) TITLE AND LOCATION (City and State) Ft. Lauderdale-Hollywood International Airport Phase 1 & 2 Utility Atlas Update for South Runway Expansion of 9R/27L (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport. Under the General Engineering contract of RS&H, all work and deliverables were performed in accordance with Airport Circulars 150/5300-18B General Guidance and Specifications for Aeronautical Surveys.		
b.	(1) TITLE AND LOCATION (City and State) Ft. Lauderdale-Hollywood International Airport Phase Westside Development Utility Certification Project (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as Senior Project Manager, was tasked with providing the providing ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a subconsultant on many projects for the airport. Mr. Checchia directed multiple crews in order to identify existing utilities though designation and location to certify utilities. All this information was mapped and incorporated into the plans.		
c.	(1) TITLE AND LOCATION (City and State) Ft. Lauderdale-Hollywood International Airport 9R/27L Runway Expansion Lead Design Team (Fort Lauderdale, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Checchia, as Senior Project Manager, was tasked with providing the ASCE Standard Quality Level B (Designating) and Quality Level A (Locating) Subsurface Utility Engineering services as a sub-consultant on many projects for the airport. Mr. Checchia was responsible for designating and locating of existing utilities for the design of south runway. Multiple crews performed tasks associated with the identification, verification and delineation of utilities.		
d.	(1) TITLE AND LOCATION (City and State) Miami International Airport Chiller Plant Building, Miami, Florida (Miami, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) On-going	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Keith and Associates 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. K&A 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. K&A 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.		
e.	(1) TITLE AND LOCATION (City and State) Palm Beach International Airport GPR for Utility Clearance, West Palm Beach, FL (Palm Beach, Florida)	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 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 and Associates provided Quality Level "B" utility designation identifying eleven locations in the Northwest portion of the airport. K&A designated toneable and non-toneable underground utilities to facilitate their removal and allow for drilling by PSI for execution of their scope. Mr. Checchia was responsible for project oversight, as well as ensuring deliverables were provided to the client.		



3 - FIRM QUALIFICATIONS AND EXPERIENCE

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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
CHRISTIAN JACKSON PE, LEED AP	SENIOR DRAINAGE ENGINEER/ PROJECT MANAGER	17	11
15. FIRM NAME AND LOCATION (City and State)			
RS&H, Inc. Fort Lauderdale, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
Master of Business Administration, Florida Atlantic University Bachelor of Science in Environmental Engineering, North Carolina State University		Registered Professional Engineer: Florida (No. 61898), 2004 LEED Accredited Professional, 2009 Florida Advanced Work Zone Traffic Control Certification Florida Certified Stormwater Pollution Prevention Inspector	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Mr. Jackson has more than 16 years of experience in drainage design, environmental permitting, and project management. He is the Water Resources Director for RS&H in south Florida and is involved in all aspects of transportation, infrastructure, and aviation projects. Mr. Jackson has extensive experience in planning, Project Development and Environment (PD&E) studies, final design, private-public partnerships, and post-design. Mr. Jackson has gained significant design-build experience over the past years, both as Owner's Representative tasked with preparing Request for Proposals (RFPs) and as Engineer of Record for the Design-Build Firm during both the pre-award and post-award phases.			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	BASIS OF DESIGN STUDY FOR THE NORTHERN AND RAVENSWOOD DRAINAGE SYSTEMS Fort Lauderdale, Florida	2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager. Led Basis of Design Study, including several drainage alternatives for management of stormwater runoff at the airport as needed to address current deficiencies and future planned development. Oversaw development of Drainage Report and Concept Plans, including final presentation to BCAD.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	HOLLYWOOD INTERNATIONAL AIRPORT EXPANSION OF RUNWAY 9R-27L Fort Lauderdale, Florida	2016	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Drainage Engineer and Environmental Permitting Agent. Responsible for developing a Stormwater Master Plan and obtaining South Florida Water Management District (SFWMD) Individual ERP, SFWMD Water Use (Dewatering) Permit, SFWMD Right-of-Way Occupancy Permit, USACE Dredge/Fill Permit, and BCEPGMD Permits. Also, supported development of Design-Build Request for Proposal (environmental and drainage sections) for US-1 Tunnel Structure component.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	PHASED AIRFIELD MODIFICATIONS TO RUNWAY 9L-27R Fort Lauderdale, Florida	2007	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Drainage Engineer and Environmental Permitting Agent. Responsible for developing a stormwater plan and report and obtaining South Florida Water Management District (SFWMD) Standard General Permit Modification, SFWMD Water Use (Dewatering) Permit, and Broward County Environmental Protection and Growth Management Department Permits.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	I-95 EXPRESS LANES PHASE II DESIGN BUILD PROJECT, FDOT Broward County, Florida	2015	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager. Led Design-Build Firm proposal efforts related to drainage and permitting, prepared final drainage design, and led permitting effort for 14-mile interstate widening project and High Occupancy Vehicle to High-Occupancy Toll lane conversion project. Upon award of design-build contract, also served as RS&H (sub-consultant) Project Manager responsible for oversight and coordination of RS&H scope activities including tolls, structures, drainage, environmental permitting, and landscape.		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT (Complete one Section E for each key person.)			
12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
LINDSEY MARON PE, CFM	AVIATION DRAINAGE ENGINEER	6	6
15. FIRM NAME AND LOCATION (City and State)			
RS&H, Inc. Jacksonville, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
Master of Business Administration, Florida Atlantic University Bachelor of Science in Environmental Engineering, North Carolina State University		Registered Professional Engineer: Florida (No. 76973), 2014; Virginia (No. 0402054952), 2015 Certified Floodplain Manager, Association of State Floodplain Managers (No. US-12-06180), 2012 Certified, Plan Reviewer - Level II, (No. 75367), Georgia Soil and Water Conservation Commission, 2015 Certified, OSHA Construction Safety and Health, United States Occupational Safety and Health Administration, 2010	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Ms. Maron is responsible for stormwater management design and water resources activities for RS&H's Aviation Practice. She has six years of experience in aviation drainage design, flood routing/analysis, hydraulic and hydrologic analysis of watersheds, and plans preparation. She has worked on various stormwater and water resources projects throughout the U.S. She is responsible for performing hydraulic and hydrologic modeling for a variety of projects including stormwater collection systems, stormwater management facilities, and environmental permitting. Specialized programs used were ASAD and ICPR/PercPack and additional experience with AutoCAD, ArcGIS, and MicroStation software.			
19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	PARALLEL RUNWAY 6R-24L PROGRAM Fort Lauderdale, Florida	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Drainage Engineer. Project consisted of crossfield taxiway design for connection of existing runway and terminal to future runway and design of site preparation package for future runway. Responsibilities included hydrologic and hydraulic stormwater design and erosion and sediment control design. Also, performed a watershed analysis of entire Airport for existing and future conditions and coordinated with regulatory agencies for environmental resource permit.		
b.	RUNWAY 9-27 RECONSTRUCTION AND RUNWAY 18-36 EXTENSION PROGRAM Tallahassee, Florida	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Drainage Designer. Aided in collection system design, stormwater routing model using ICPR/PercPack and overland flow methodology, field reviews and data collection, preparation of drainage design and environmental permitting documentation for submission to local agencies, plans preparation, quantity tabulations, erosion and sediment control design, and coordination with drainage subconsultant.		
c.	CECIL SPACEPORT TAXIWAY AND APRON Jacksonville, Florida	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Drainage Engineer. Responsibilities included design of dry swale treatment Best Management Practices (BMPs) using a year-long interconnected pond routing simulation of infiltration for annual nutrient loading reduction. Other tasks included Environmental Resource Permitting (ERP) permit package preparation, erosion and sediment control design, plan production, and quantity tabulation.		
d.	GENERAL AVIATION TERMINAL AND APRON, ALBERT J. ELLIS AIRPORT Jacksonville, North Carolina	2015	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Led Design-Build Firm proposal efforts related to drainage and permitting, prepared final drainage design, and led permitting effort for 14-mile interstate widening project and High Occupancy Vehicle to High-Occupancy Toll lane conversion project. Upon award of design-build contract, also served as RS&H (sub-consultant) Project Manager responsible for oversight and coordination of RS&H scope activities including tolls, structures, drainage, environmental permitting, and landscape.		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Raj Krishnasamy, P.E.	13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer	14. YEARS EXPERIENCE a. TOTAL 29 b. WITH CURRENT FIRM 15	
15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC., West Palm Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BS Civil Engineering, Christian Brothers University, 1987 MS Civil Engineering, University of Memphis, 1996		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida No. 53567	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Highway Engineers, Past President, Florida Engineering Society, Past Treasurer Geotechnical Material Engineering Council, Past Chairman			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Taxiway Echo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical exploration, pavement cores and laboratory testing for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors. Field study consisted of Standard Penetration Test (SPT) borings, Borehole Permeability (BHP) tests, field CBR tests - Kessler Method, and pavement cores. Performed limited laboratory testing on selected soil samples, including grain size analysis, organic content, and Modified proctor Tests. Also performed laboratory CBR tests (ASTM D1883). Provided subsurface information, soil profiles, and test results.		
b. (1) TITLE AND LOCATION (City and State) Taxiway Bravo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida	PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical study for the rehabilitation of Taxiway Bravo at Ft. Lauderdale Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation included widening of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Penetration Test (SPT) borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize findings as well as geotechnical recommendations regarding excavations, ground water control and pavement design.		
c. (1) TITLE AND LOCATION (City and State) Taxiway Delta & Charlie Rehabilitation Project - Fort Lauderdale Executive Airport, Broward County, Florida	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical services for the milling and resurfacing of Taxiway Delta & Charlie. Performed Standard Penetration Test (SPT) borings and pavement cores. Provided a geotechnical services report discussing the subsurface conditions found, groundwater conditions at the site, and pavement core test results.		
d. (1) TITLE AND LOCATION (City and State) Western Expansion of Terminal 4 and Connector Bridge to Terminal 3, Fort Lauderdale-Hollywood International Airport, Broward County, Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical engineering study for proposed Western Expansion of Terminal 4 and a connector bridge to Terminal 3. Field work consisted Standard Penetration Test (SPT) borings. Provided a geotechnical report summarizing subsurface conditions and groundwater information. TSF provided geotechnical recommendations regarding foundation design, including evaluating the use of Auger Cast-In-Place (ACIP) piles to support the proposed expansion. Provided ACIP pile design criteria and recommendations, site preparation recommendations, floor slab recommendations, and information regarding trench excavations.		
e. (1) TITLE AND LOCATION (City and State) Expansion of Runway 10R-28L, Fort Lauderdale - Hollywood International Airport, Broward County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical study for the proposed expansion of Runway 9R-27L and associated US-1/FEC railroad structures, high fill embankment, and MSE walls. SPT soil borings and sampling are being performed for US-1/FEC Railroad structures, MSE walls and high embankments. Maximum MSE wall height is expected to be about 65 ft. which is significantly higher than the normal practice in Florida. Performed pile capacity analysis for bridge structures. Provided analysis and recommendations for MSE walls and embankment fill as well as other geotechnical engineering recommendations.		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Kumar Vedula, P.E.	13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer	14. YEARS EXPERIENCE a. TOTAL 20	
		b. WITH CURRENT FIRM 8	
15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC. West Palm Beach, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Engineering, Andhra University, India, 1992 MS Civil Engineering, University of Memphis, 1995		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida No. 54873	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers, Past President <i>Augered Cast-in-Place and Driven Pre-stressed Concrete Pile Field Performance Comparison</i> , Frizzi, R. P., & Vedula, R.V, Published in FHWA Resource Center, 83 rd Annual Transportation Research Board Meeting, Washington D.C., January 2004 <i>Improvement of soft clay using high pressure Jet Grout</i> , Chang, T.S., Vedula, R. V., and Chang, K.P., 4 th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, March 2001			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Expansion of Runway 10R-28L, Fort Lauderdale – Hollywood International Airport, Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior geotechnical engineer for the geotechnical study for the proposed expansion of Runway 9R-27L and associated US-1/FEC railroad structures, high fill embankment, and MSE walls. SPT soil borings and sampling are being performed for US-1/FEC Railroad structures, MSE walls and high embankments. Maximum MSE wall height is expected to be about 65 ft. which is significantly higher than the normal practice in Florida. Performed pile capacity analysis for bridge structures. Provided analysis and recommendations for MSE walls and embankment fill as well as other geotechnical engineering recommendations.		
(1) TITLE AND LOCATION (City and State) T4 West Fuel Hydrant System, Fort Lauderdale – Hollywood International Airport, Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2011	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior geotechnical engineer for the geotechnical engineering study to explore the subsurface conditions at the site to enable an evaluation of acceptable foundation for the construction. Provided a geotechnical report summarizing findings as well as geotechnical recommendations regarding foundation design and soil parameters.		
(1) TITLE AND LOCATION (City and State) Northside Renovations at Fort Lauderdale Jet Center, Fort Lauderdale– Hollywood International Airport, Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2006	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior geotechnical engineer for the geotechnical study for the construction of a hangar and office spaces, new pavement areas and resurfacing of existing pavement. Provided recommendations for site preparation, foundation design, floor slab design, lateral earth pressure, pavement design, and other construction considerations.		
(1) TITLE AND LOCATION (City and State) Taxiway Bravo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2008	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior geotechnical engineer for the geotechnical study for the rehabilitation of Taxiway Bravo at Fort Lauderdale Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation included widening of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Penetration Test (SPT) borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize findings as well as geotechnical recommendations regarding excavations, ground water control and pavement design.		
(1) TITLE AND LOCATION (City and State) Mounting Structures and Travel Lane at Remote Parking, Fort Lauderdale– Hollywood International Airport, Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2009	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior engineer for the geotechnical engineering study to explore the subsurface conditions within or in close proximity to the proposed mounting structures and travel lane. Provided geotechnical engineering report with summary of groundwater and subsurface conditions. Also provided geotechnical recommendations and soil parameters for a drilled shaft foundation design system along with considerations for drilled shaft construction.		

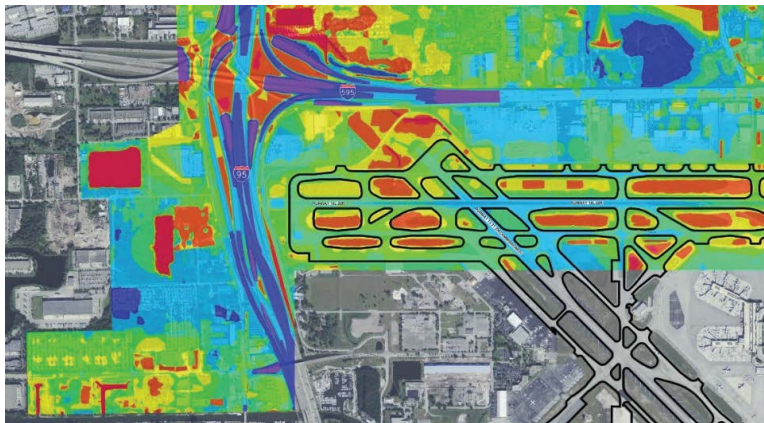
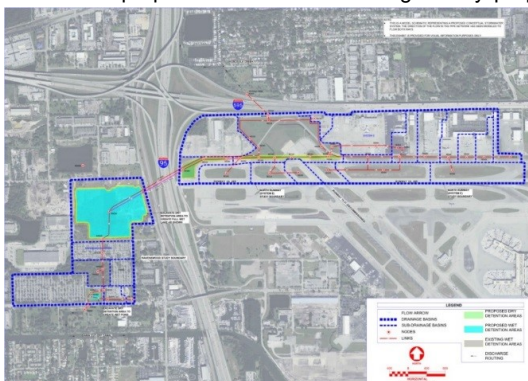


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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 1				
21. TITLE AND LOCATION (City and State) STORMWATER MASTER PLANNING & MAINTENANCE - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL) Fort Lauderdale, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2015</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2015	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2015	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Broward County Aviation Department	b. POINT OF CONTACT NAME Carlos Hernandez, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (954) 359-2255					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<p>Since completing the Stormwater Master Plan for the majority of Fort Lauderdale-Hollywood International Airport (FLL) as part of the FLL South Runway Expansion project in 2013, the RS&H and Keith and Associates Team has been providing the Broward County Aviation Department (BCAD) with engineering and environmental permitting consultant services for drainage and environmental permitting under a General Engineering Contract (GEC). To date, our team continues to coordinate and maintain updates to the Stormwater Master Plan for FLL, including the AdICPR hydrologic & hydraulic models, in order to expedite issuances of new permit and/or license modifications with the South Florida Water Management District (SFWMD) and the Broward County Environmental Protection & Growth Management Department (BCEPGMD). Additional stormwater projects that our team completed under such GEC services include the FLL Basis of Design Study for the Northern and Ravenswood Drainage Systems and the North Perry Airport (HWO) FEMA Floodplain Analysis and Letter of Map Revision (LOMR). The team's LOMR for HWO successfully changed proposed FEMA flood zones to allow developable airport property to remain outside of flood zones.</p> <p>For the Northern and Ravenswood Drainage Study, Keith and Associates and RS&H performed surveying and civil engineering services to prepare an extensive drainage study proposing to combining the North runway (10L-28R) drainage basin (244.25 ac) with the Ravenswood drainage basin (108.16 ac) located on the West side of Interstate-95. With the closure of runway 13-31, Broward County desired to utilize the residual property of that decommissioned runway that borders North Perimeter Road and Interstate-595 for an additional commercial lease parcel. This results in a significant loss in water management facilities for the North Runway 10L/28R as it increases the rainfall run-off in this basin while eliminating existing storm-water management facilities located in the same area as the proposed re-development. The primary challenge in this study was that the majority of the water quality treatment needed to be provided in the Ravenswood basin while the bulk of the discharge needed to route into Osceola Creek from the North runway basin. A previous evaluation had anticipated a pumped connection between these two basins but this study determined it was more practical and cost effective to utilize a 72 inch diameter gravity pipe connection between these basins that will be micro-tunneled under I-95. Numerous iterations with varying lay-out options were considered and all existing conditions, permitting limitations, existing planning and FAA criteria were taken into consideration. Keith and Associates was responsible for setting up and running the ICPR program modeling, evaluating the results of the program run, writing up the draft of the final report and preparation of the project cost estimates.</p>							
							
							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
a.	Keith and Associates, Inc.	Pompano Beach, FL	Engineering				
b.	RS&H, Inc.	Fort Lauderdale, FL	Preliminary Engineering Services				

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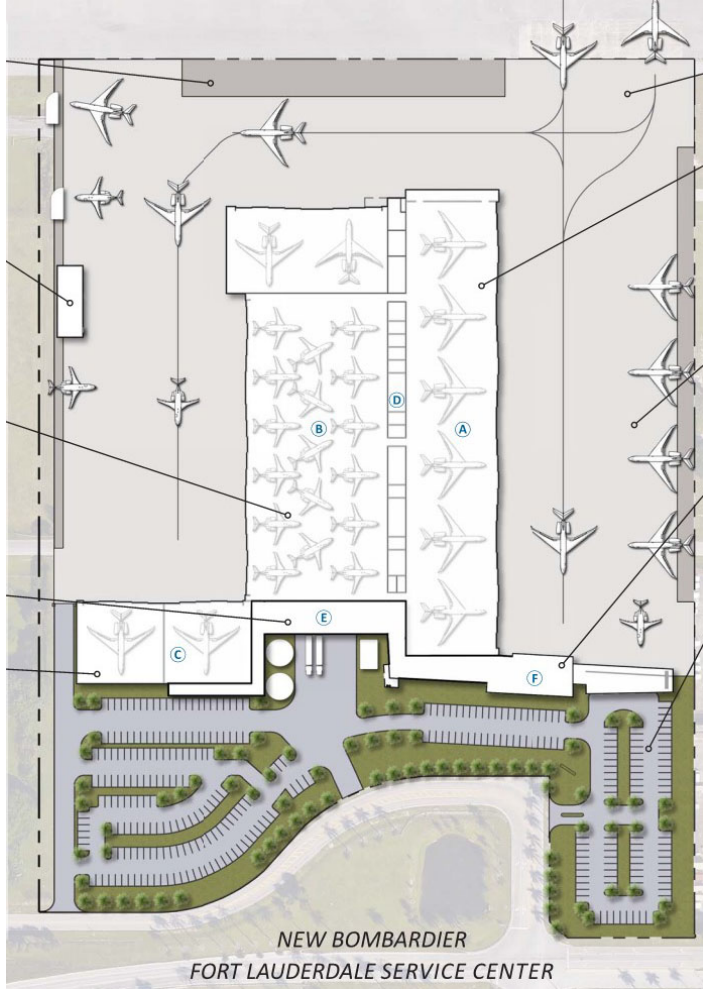
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2																
21. TITLE AND LOCATION (City and State) NEW SOUTH RUNWAY 10R-28L - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL) Fort Lauderdale, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2010</td> <td>2016</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2010	2016												
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)																	
2010	2016																	
23. PROJECT OWNER'S INFORMATION <table border="1"> <tr> <td>a. PROJECT OWNER</td> <td>b. POINT OF CONTACT NAME</td> <td>c. POINT OF CONTACT TELEPHONE NUMBER</td> </tr> <tr> <td>Broward County Aviation Department</td> <td>Trevor Fisher, P.E.</td> <td>(954) 359-6866</td> </tr> </table>			a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	Broward County Aviation Department	Trevor Fisher, P.E.	(954) 359-6866										
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER																
Broward County Aviation Department	Trevor Fisher, P.E.	(954) 359-6866																
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>Keith and Associates, RS&H and Tierra of South Florida were retained on a team of consultants selected by Broward County to provide design, bidding and construction phase services for the Airport Expansion Program (AEP) for the design of a new south Runway 10R-28L and associated taxiways, at Fort Lauderdale-Hollywood International Airport. A major element of the AEP is the expansion of Runway 10R-28L which was designed for an Airplane Design Group (ADG) V and will be 8,000 feet long by 150 feet wide. It will be located along the centerline of (and replace) the current general aviation Runway 10R-28L. The new runway, along with a full-length parallel taxiway to the north, will extend over the existing airport perimeter road, Florida East Coast Railroad and US Highway 1 located east of the Airport. This requires the new Runway 10R-28L and its inner parallel taxiway to be elevated to the east. This will necessitate two Runway/Taxiway Structure(s). The proposed runway alignment, longitudinal and transverse runway grades, and the taxiway extensions will be configured in accordance with the FAA Advisory Circular 150/5300-13 Airport Design to accommodate a Boeing 777-300. The project includes:</p> <div style="display: flex;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> » Demolition of existing airfield pavements and facilities » New 8,000-foot by 150-foot runway » New runway high speed exit taxiways and connector taxiways to the parallel taxiway » New full length parallel taxiway and partial length outer parallel taxiway » New cross-field dual parallel taxiway system to connect to the north Runway 10L-28R and parallel taxiway system » New holding bays for aircraft » Major stormwater drainage and detention systems requiring permitting through the South Florida Water Management District (SFWMD) and Broward County Environmental Permitting Department (BCEPD) </div> </div> <ul style="list-style-type: none"> » Runway and Taxiway lighting and signage system » Approximately 6.5 million cubic yards of earthwork and grading » Temporary and permanent erosion control measures » Multiple utilities relocation and installation of new utilities » New Mechanically Stabilized Earth (MSE) retaining wall system » New security fencing and camera system » New Engineered Material Arresting Systems (EMAS) for both Runway 10R and 28L runway ends » Partial decommissioning of Taxiways D and E and Runway 13-31 » NAVAIDS design and access roads 																		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT <table border="1"> <tr> <th></th> <th>(1) FIRM NAME</th> <th>(2) FIRM LOCATION (City and State)</th> <th>(3) ROLE</th> </tr> <tr> <td>a.</td> <td>Keith and Associates, Inc.</td> <td>Pompano Beach, FL</td> <td>Engineering</td> </tr> <tr> <td>b.</td> <td>RS&H, Inc.</td> <td>Fort Lauderdale, FL</td> <td>Engineering, Planning and Environmental</td> </tr> <tr> <td>c.</td> <td>Tierra South Florida</td> <td>West Palm Beach, FL</td> <td>Geotechnical Engineering</td> </tr> </table>				(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	a.	Keith and Associates, Inc.	Pompano Beach, FL	Engineering	b.	RS&H, Inc.	Fort Lauderdale, FL	Engineering, Planning and Environmental	c.	Tierra South Florida	West Palm Beach, FL	Geotechnical Engineering
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE															
a.	Keith and Associates, Inc.	Pompano Beach, FL	Engineering															
b.	RS&H, Inc.	Fort Lauderdale, FL	Engineering, Planning and Environmental															
c.	Tierra South Florida	West Palm Beach, FL	Geotechnical Engineering															





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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 3				
21. TITLE AND LOCATION (City and State) BOMBARDIER AIRCRAFT SERVICE CENTER - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL) Fort Lauderdale, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>On-going</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	On-going	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
On-going	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Jacobs Engineering Group, Inc.	b. POINT OF CONTACT NAME Dan Richardson, Sr. Project Manager-Global Building	c. POINT OF CONTACT TELEPHONE NUMBER (214) 583-8595					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
 <p style="text-align: center;">NEW BOMBARDIER FORT LAUDERDALE SERVICE CENTER</p>		<p>Keith and Associates is providing professional services associated with the FLL Bombardier Aircraft Service Center, for a approximately 30 acres lease property located on the west side of Fort Lauderdale International Airport, south of Taxiway Charlie and north of Lee Wagner Boulevard.</p> <p>The project consists of approximately 290,000 square feet of hangar, shops and office area, including a parking lot that will provide 250 to 300 parking spaces and an apron and airside connection to Taxiway Charlie to support the operation of the proposed facility.</p> <p>Keith and associates is providing survey, planning and civil engineering services to include the site plan preparation and processing, water, sewer, paving, grading and drainage design to support the proposed facility. As the Engineer of Record for this project, we are responsible for the modification of the Airport's Master Drainage Plan and Permits requiring the revision of the existing drainage sub-basins delineations for the Western System of the "Overall FLL Airport Drainage Basin Map" to include the project's proposed improvements and the modification of the FLL Airport ICPR model based on the proposed sub-basin delineations and site proposed conditions. Additionally, we are designing the airside apron based on FAA requirements for airplanes weighing more than 30,000 lbs with the use of FAARFIELD.</p> <p>Keith and Associates is also responsible for the construction phase services for this project, this will include review of shop drawings and as-builts reward drawings and periodic site inspections in accordance with the applicable permit conditions in order to complete the utilities certification process and close-out of same.</p>					
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
a.	Keith and Associates, Inc.	Pompano Beach, FL	Engineering, Planning, Survey, Construction Administration				
c.	Tierra of South Florida	West Palm Beach, FL	Geotechnical Engineering				

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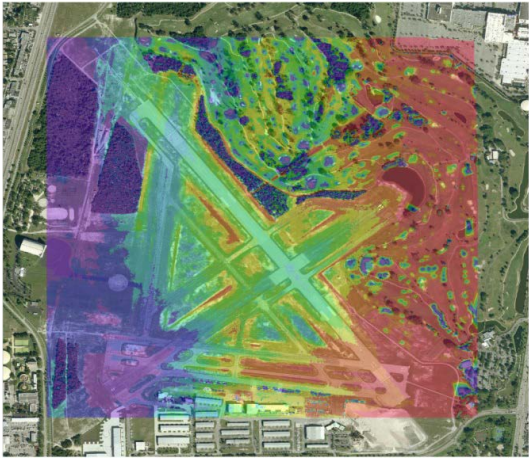
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4						
21. TITLE AND LOCATION (City and State) SHELTAIR HANGAR EXPANSION - POMPANO BEACH AIR PARK (PMP) Pompano Beach, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2011</td> <td>2015</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	2015		
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)							
2011	2015							
23. PROJECT OWNER'S INFORMATION								
a. PROJECT OWNER Holland Sheltair Aviation Group	b. POINT OF CONTACT NAME John Sobol, Vice President/Construction	c. POINT OF CONTACT TELEPHONE NUMBER (954) 771-2210						
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)								
<p>The Holland Sheltair Aviation Group leases 40.8 acres from the Pompano Beach Air Park, and Keith and Associates was retained by SheltAir to develop and process site plan drawings, perform civil engineering design for water, sewer, paving and drainage improvements, survey, subsurface utility locations, landscape architecture and provide construction phase services for the site improvements to support the addition of office/ hanger buildings approximately 96,100 SF of floor area on 19.6 acres of their leased property. Keith and Associates, as the Engineer of Record for these projects, was responsible for the modification of the Air Park Master Drainage Plan/Permits as required for the development of the proposed improvements as they now exist.</p>								
								
<p>These projects afforded us the opportunity to form a relationship with SheltAir and engage with the municipal aviation staff that manages the overall Air Park. As a result Keith and Associates is in negotiations with SheltAir for professional services required future development of their facilities within the FXE.</p>								
								
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT								
a.	<table border="1"> <tr> <td>(1) FIRM NAME</td> <td>(2) FIRM LOCATION (City and State)</td> <td>(3) ROLE</td> </tr> <tr> <td>Keith and Associates, Inc.</td> <td>Pompano Beach, FL</td> <td>Engineering, Landscape Architecture, Survey, Subsurface Utility Engineering, Construction Administration</td> </tr> </table>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	Keith and Associates, Inc.	Pompano Beach, FL	Engineering, Landscape Architecture, Survey, Subsurface Utility Engineering, Construction Administration	
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE						
Keith and Associates, Inc.	Pompano Beach, FL	Engineering, Landscape Architecture, Survey, Subsurface Utility Engineering, Construction Administration						

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21. TITLE AND LOCATION (City and State) MASTER DRAINAGE PLAN - POMPANO BEACH AIR PARK (PMP) Pompano Beach, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2011</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2011	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2011	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER City of Pompano Beach	b. POINT OF CONTACT NAME Steve Rocco, Airport Manager	c. POINT OF CONTACT TELEPHONE NUMBER (954) 786-4135					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<p>The Pompano Beach Air Park is located in the heart of the Gold Coast, and serves the general aviation needs of Broward County. This air transportation facility is owned and operated by the City of Pompano Beach. The airport provides a multitude of general aviation services including: flight training, aircraft rental, air taxi/charter, scenic rides, air ambulance, aerial photography, mapping and surveying, search & rescue, storage hangers, aircraft sales, maintenance, avionics repairs and ramp services (aircraft fueling, tie-downs, catering, etc.).</p>							
<p>Keith and Associates, Inc. served as a Sub-Consultant to Hanson Professional Services, Inc. and was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The project consisted of field reconnaissance, surveys and reviews of all available City information and data affecting drainage and storm drainage infrastructure, preparation of analyses, design reports, feasibility studies and design alternative, recommendations, along with associated project cost estimated for related infrastructure improvements, update of the SWMPPP and recommendations for implementation, monitoring and reporting, meetings and presentations before stakeholder groups, advisory boards and elected officials, preparation of required submittal packages for agency having jurisdiction</p>							
							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
a.	(1) FIRM NAME Keith and Associates, Inc.	(2) FIRM LOCATION (City and State) Pompano Beach, FL	(3) ROLE Survey, Permitting and Data Collection				
c.	Tierra South Florida	West Palm Beach, FL	Geotechnical Engineering				

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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 6				
21. TITLE AND LOCATION (City and State) DRAINAGE MASTER PLAN UPDATE - GEORGE BUSH INTERCONTINENTAL AIRPORT Houston, Texas		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>Ongoing</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
Ongoing	N/A					
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER Houston Airport System	b. POINT OF CONTACT NAME Lorna Clark	c. POINT OF CONTACT TELEPHONE NUMBER (281) 233-1967				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)						
<p>RS&H was retained by Houston Airport System to provide preliminary engineering phase services to update the Drainage Master Plan (DMP) serving the facilities of George Bush Intercontinental Airport (IAH). The DMP included a drainage analysis of the airport's existing conditions, including stormwater best management practices, debris facilities, and erosion. In addition, RS&H evaluated stormwater management facility alternatives to meet needs for future development listed in LEGEND IAH's recent Master Plan update. The analysis included detailed hydrologic and hydraulic modeling of the airport's drainage basins and stormwater infrastructure. Unique challenges included impacts to FEMA floodplains and detention required to mitigate any potential adverse impacts to downstream facilities. The goals of the Drainage Master Plan update were to meet all local, state, and federal regulations for stormwater quality and quantity, while identifying alternatives that minimize the space and cost required for stormwater management facilities, allowing more developable area for the airport. FAA safety standards were also a significant factor in locating and designing proposed stormwater management facilities.</p> <p>Significant coordination was conducted with local permitting agencies such as Harris County Flood Control District and City of Houston. Approval of the DMP was obtained from the agencies, and a permitting procedure was developed to expedite the permitting process for future projects.</p>						
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
b.	RS&H, Inc.	Houston, TX	Preliminary Engineering Services			

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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 7				
21. TITLE AND LOCATION (City and State) SOUTHWEST FLORIDA INTERNATIONAL AIRPORT Fort Myers, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2006</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2006	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2006	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Lee County Port Authority	b. POINT OF CONTACT NAME Mark Fisher, AAE	c. POINT OF CONTACT TELEPHONE NUMBER (239) 590-4600					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<p>The Lee County Port Authority retained RS&H on a team of consultants to assist in the development of Southwest Florida International Airport. Continued growth in commercial service and passenger volumes prompted the need to develop a major expansion program consisting of a parallel taxiway, new midfield terminal and new roadway access.</p> <p>RS&H provided planning and permitting leadership and services to obtain preliminary permitting agencies' approvals with the South Florida Water Management District and US Army Corps of Engineers.</p> <p>RS&H provided management oversight for the development of a mitigation plan for a 7,000-acre tract of land acquired by the Lee County Port Authority for mitigation purposes.</p>							
Other planning services included: » Airport Master Plan Update » Environmental Assessment Documentation Report » Coordination of Airport Master Plan with the Local Comprehensive Plan							
<p>The master plan and environmental assessment addressed and analyzed the future 20-year development of the facility including the planning and construction of a parallel runway, terminal access improvements including a possible direct connection to I-75, the reuse of the former terminal building and land use designations around the facility to include future potential commercial, retail and hotel designations.</p> <p>RS&H worked cooperatively with the Lee County Port Authority and the FDOT I-75 Master Planning team to develop and refine a preferred concept that provided for direct access from the new mid-field terminal to I-75. In addition, RS&H prepared several traffic modeling analysis using the FSUTMS model program for both the initial design of the mid-field complex and a DRI substantial deviation which modeled traffic for the airport for 20 years in the future. This modeling also included a proportionate share analysis and extensive coordination with Lee County DOT and FDOT.</p>							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
b.	(1) FIRM NAME RS&H, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale and Tampa, FL	(3) ROLE Preliminary Engineering Services				

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3 - FIRM QUALIFICATIONS AND EXPERIENCE

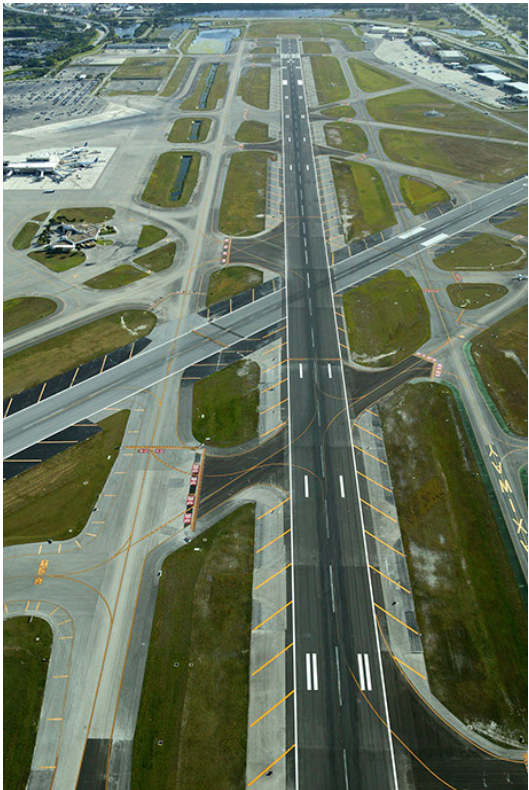
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete on Section F for each project.)</i>			20. EXAMPLE PROJECT KEY NUMBER 8				
21. TITLE AND LOCATION (City and State) AIRPORT WIDE STORMWATER MASTER PLAN AND WETLANDS IMPACTS CONCEPTUAL PERMITTING - TAMPA INTERNATIONAL AIRPORT <i>Tampa, Florida</i>		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2006</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2006	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2006	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Hillsborough County Aviation Authority (HCAA)	b. POINT OF CONTACT NAME Jeffrey Siddle, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (813) 870-7810					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<div style="display: flex;"> <div style="flex: 1;"> <p>RS&H was retained as part of the General Consultant assignment to provide an airport wide Stormwater Master Plan and wetlands permitting. This project consisted of a full modification to the Tampa International Airport's Environmental Resource Permit (ERP) including the development of a comprehensive Airport Stormwater and Wetland Impacts Master Plan. The need for this permit document and associated conceptual permit modification was based primarily on the recommendation in the airport's master plan update for the completion of the first phase of a new north terminal by 2015. To meet the goals of the master plan update, major improvements to the existing stormwater infrastructure along with impacts to existing wetlands were required. The stormwater improvements consisted of a high level of fully coordinated airport and stormwater conceptual design to facilitate the drainage for all the proposed projects. Stormwater modeling of existing, interim and ultimate conditions was generated using Interconnected Channel and Pond Routing (ICPR) software.</p> <p>Significant permitting agency coordination was conducted throughout the process with the Southwest Florida Water Management District, Hillsborough County Environmental Protection Agency and the US Army Corps of Engineers to streamline the permit approval process</p> </div> <div style="flex: 1;"> </div> </div>							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
b.	(1) FIRM NAME RS&H, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE General Consultant, Architectural, Engineering, Planning and Environmental Services				



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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 (City and State) RUNWAY 10L-28R REHABILITATION – PALM BEACH INTERNATIONAL AIRPORT <i>Palm Beach County, Florida</i>		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2013</td> <td>N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2013	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2013	N/A						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER CH2M Hill, Inc.		b. POINT OF CONTACT NAME Mr. Dan C. Tompkins, P.E.					
		c. POINT OF CONTACT TELEPHONE NUMBER (561) 904-7510					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<p>Performed a geotechnical engineering study for the project, which included:</p> <ul style="list-style-type: none"> • Milling and overlay full length of Runway 10L-28R and 14-32 Intersection, • Milling and overlay of taxiway connectors and shoulders (as necessary) • Fillet widening and shoulder pavement at Taxiway C5 • Drainage improvement associated with the Storm Water Management Master Plan. <p>Field work performed included Standard Penetration Test (SPT) borings, pavement cores, Double Ring Infiltration Tests (DRIT), Bore Hole Permeability (BHP) tests, and California Bearing Ratio (CBR) tests. TSF provided a geotechnical report discussing the subsurface conditions found, groundwater conditions at the site, and test results. Completed on time and within budget in 2012.</p> <p>TSF also provided quality assurance material testing (QAMT) and inspection services for the project which included:</p> <ul style="list-style-type: none"> • Runway 10L-28R pavement rehabilitation • Runway 10L-28R and runway 14-32 intersection pavement rehabilitation • Taxiway C and L end connectors pavement rehabilitation within runway safety area (RSA) • Taxiway connectors and pavement rehabilitation within the RSA • Taxiway C5 fillet widening and shoulder pavement construction • Taxiway 10L-28R delamination areas repairs, grooving and final pavement • Runway and taxiway lightening system upgrades and electrical improvements <p>Services included inspection of asphalt plant supplier, density tests, LBR test, inspection and asphalt testing (during initial test section and production), miscellaneous concrete tests, witnessing of asphalt core drilling and delivery to plant, and issuance of daily reports in FAA format. Project required working night and weekend shifts. Completed on time in 2013 and the rehabilitation was completed \$345,000 under the overall project budget.</p>							
							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
c.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering, Construction Material Testing and Inspection Services				

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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 (City and State) TAXIWAY BRAVO REHABILITATION PROJECT - FORT LAUDERDALE EXECUTIVE AIRPORT (FXE) Fort Lauderdale, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>2008</td> <td>2012</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	2008	2012
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
2008	2012						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Kimley-Horn & Associates, Inc.	b. POINT OF CONTACT NAME David Bardt, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 845-0665					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							
<p>Performed a geotechnical study for the rehabilitation of Taxiway Bravo at Fort Lauderdale Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation included widening of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Penetration Test (SPT) borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize findings as well as geotechnical recommendations regarding excavations, ground water control and pavement design.</p> <p>During construction, provided material testing and inspection services for the taxiway rehabilitation. Performed laboratory testing including LBRs, Proctors, and concrete breaks. Provided earthwork and concrete inspections during subgrade and base construction. During asphalt pavement rehabilitation (milling and resurfacing), provided field asphalt inspectors to observe placement of test strip, tack placement, and surface and leveling courses. TSF inspectors were also in charge of tracking all tonnage, waste quantities, tack and prime quantities, and based on those numbers the inspectors verified pay applications. Also provided all asphalt plant inspections prior to and during all asphalt field activities.</p> <p>The project was completed on time and within budget.</p>							
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
c.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering, Construction Material Testing and Inspection Services				

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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 13)	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
Adolphine "Dodie" Keith-Lazowick, PMS	Principal in Charge	X	X	X	X	X					
James Thiele, PE	Senior Project Manager	X	X	X	X						
Alex Lazowick, PE	Assistant Project Manager	X	X	X	X						
Stephen Williams, PE	QA/AC Manager			X							
Mark Castano, PE	Project Engineer	X	X		X	X					
Susana Bernal, LEED AP	Engineering Manager	X	X	X	X	X					
Lee Powers, PSM	Project Surveyor & GIS Specialist		X	X	X						
Daniel Checchia	SUE Manager		X	X	X						
Christian Jackson, PE	Civil Engineering	X	X								
Lindsey Maron, PE, CFM	Civil Engineering		X				X	X	X		
Raj Krishnasamy, PE	Geotechnical Engineering		X	X		X				X	X
Kumar Vedula, PE	Geotechnical Engineering		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	STORMWATER MASTER PLANNING & MAINTENANCE - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL)	6	DRAINAGE MASTER PLAN UPDATE - GEORGE BUSH INTERCONTINENTAL AIRPORT
2	NEW SOUTH RUNWAY 10R-28L - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL)	7	SOUTHWEST FLORIDA INTERNATIONAL AIRPORT
3	BOMBARDIER AIRCRAFT SERVICE CENTER - FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT (FLL)	8	AIRPORT WIDE STORMWATER MASTER PLAN AND WETLANDS IMPACTS CONCEPTUAL PERMITTING - TAMPA INTERNATIONAL AIRPORT
4	SHELTAIR HANAGER EXPANSION - POMPANO BEACH AIR PARK (PMP)	9	RUNWAY 10L-28R REHABILITATION - PALM BEACH INTERNATIONAL AIRPORT (PBI)
5	MASTER DRAINAGE PLAN - POMPANO BEACH AIR PARK (PMP)	10	TAXIWAY BRAVO REHABILITATION PROJECT - FORT LAUDERDALE EXECUTIVE AIRPORT (FXE)

3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

H. ADDITIONAL INFORMATION

With a longstanding history as one of the veteran civil engineering and consulting firms located in the County, KEITH AND ASSOCIATES, INC. is committed to exceeding the City's expectations for this contract. We have assembled a team of consultants that have worked together on many engineering project assignments and who provide relevant experience performing the exact type of work required under this RFP.

Over the last 18 years, KEITH AND ASSOCIATES and our supporting consulting team partners have successfully completed the design, permitting, construction and certifications of numerous projects at local airports. We understand the many challenges faced with improving and maintaining the transportation, utility infrastructures and along with the aviation infrastructure at these facilities and have demonstrated our ability to provide quality, functional designs, while maintaining budget parameters and expediting schedule requirements.



KEITH AND ASSOCIATES, INC. has been most effective in our various roles because we have built a truly local team focused on Broward County aviation projects. Our extensive aviation related experience provides us with a real understanding and respect for the numerous stakeholders, consultants, contractors and agencies that must work concurrently, effectively and in harmony for airport improvement projects to culminate in success.

The KEITH AND ASSOCIATES, INC. team has experienced, technically skilled individuals who are readily available to provide the City of Fort Lauderdale with the services necessary to successfully develop and acquire a master drainage permit for FXE. We have assembled the appropriate team members for each specific task areas and have the ability to provide additional professionals for any unique tasks that may arise. Our intimate knowledge of the City of Fort Lauderdale, coupled with our technical expertise, ensures that our approach and methodology will result in accurate documents and designs. The combination of our firm's local presence, experienced personnel, institutional experience and our reputation for quality and timely project completion as well as a proactive project approach, provides for a strong competent project team.

Our subconsultant team was selected with emphasis placed on professional consultants recognized as leaders in their field and experienced in servicing aviation contracts. Moreover, we have included **RS&H** and **Tierra South Florida** because we have a proven record of having worked together successfully on projects such as the South Runway Expansion at Fort Lauderdale-Hollywood International Airport, Ravenswood Drainage Study at FLL, Taxiway Charlie West at FLL, Taxiway Charlie East at FLL, High Speed Taxiway at FLL and Bombardier at FLL. Our staff has been working together for several years, thereby cultivating relationships that allow for ease of communication and efficient allocation of responsibilities.



RS&H offers a deep bench of aviation specialists in all areas of design. In many industry circles, RS&H is considered the "go-to" airfield design firm, and is ranked by ENR magazine as the 8th largest aviation design firm in the United States. With its headquarters in Florida and a majority of its 170-plus associates dedicated to the Aviation Practice, RS&H is an integral part of the airport community in the State of Florida. RS&H has successfully completed several aviation projects for our 27 Florida airport clients and furthermore has completed the same type of project as this one right here in Broward County at FLL.



Tierra South Florida is a full service consulting geotechnical and construction materials testing engineering firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. TSF's professional team has been working together since 2000 and is committed to providing quality, responsive service establishing a reputation for sound approaches and professional competence in a wide range of technically demanding areas. TSF is an FDOT unlimited prequalified consultant to provide geotechnical services 9.1, 9.2, 9.3, 9.4.1, 9.4.2, 9.5 & 10.3. Their staff currently includes principal engineers and technicians certified through nation and state programs with over 28 years of experience in geotechnical, construction, laboratory and field materials testing and inspection services. Their in-house testing laboratory is AASHTO and ASTM certified by CMEC and validated by the FDOT.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

October 25, 2016

33. NAME AND TITLE


Eliot Lazowick, Executive Vice President

STANDARD FORM 330




3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

ARCHITECT – ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (if any) 266-11831	
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 and Associates, Inc.				3. YEAR ESTABLISHED 1998		4. DUNS NUMBER N/A
2b. STREET 301 East Atlantic Boulevard				5. OWNERSHIP		
2c. CITY Pompano Beach				2d. STATE FL		2e. ZIP CODE 33060
6a. POINT OF CONTACT NAME AND TITLE Adolphine "Dodie" Keith-Lazowick, PLS, President				a. TYPE Corporation		
6b. TELEPHONE NUMBER 954-788-3400				b. SMALL BUSINESS STATUS DBE		
6c. E-MAIL ADDRESS dkeith@keith-associates.com				7. NAME OF FIRM (if block 2a is a branch office) N/A		
8a. FORMER FIRM NAME(S) (if any) N/A				8b. YR. ESTABLISHED N/A		8c. DUNS NUMBER N/A
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE 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	9		A06	Airports; Terminals and Hangars	6
08	CADD Technician	6	1	B02	Bridges	2
12	Civil Engineer, PE	7	1	C07	Coastal Engineering	2
15	Construction Inspector	7		C10	Commercial Building (Low Rise)	5
16	Construction Manager	2		C11	Community Facilities	6
29	G.I.S. Specialist	2		C15	Construction Management	6
38	Land Surveyor, PLS	5	1	C16	Construction Surveying	4
39	Landscape Architect, RLA	2		E02	Educational Facilities	4
47	Planner: Urban/Regional	2		F02	Field Houses; Gyms; Stadiums	3
48	Project Manager	6		G04	G.I.S. Services; Development, Analysis	2
53	Scheduler	1		H07	Highways, Streets, Airfield Paving	4
	Landscape Designer	3		H09	Hospitals & Medical Facilities	3
	Project Surveyor	3		I06	Irrigation; Drainage	3
	Survey Field Crew	22	3	L03	Landscape Architecture	5
	Subsurface Utility Engineer	2		P05	Planning (Community, Regional ...)	3
	Subsurface Utility Field Crew	6		R03	Railroad; Rapid Transit	3
	Utility Coordinator	3		R04	Recreation Facilities (Parks, Marinas, etc)	4
	VDC/BIM	1	1	S10	Surveying; Platting; Mapping; Flood Study	3
				S13	Storm Water handling & Facilities	3
				T04	Topographic Surveying & Mapping	4
				W03	Water Supply; Treatment & Distribution	2
				Z01	Zoning; Land Use Studies	2
Total		89	7			
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			
b. Non-Federal Work	8		2. \$100,000 to less than \$250,000			
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			
			6. \$2 million to less than \$5 million			
			7. \$5 million to less than \$10 million			
			8. \$10 million to less than \$25 million			
			9. \$25 million to less than \$50 million			
			10. \$50 million or greater			
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						
a. SIGNATURE 					b. DATE 10/25/16	
c. NAME AND TITLE Eliot Lazowick, Executive Vice President						



STANDARD FORM 330

<p align="center">12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.</p>	
<p>a. SIGNATURE</p> 	<p>DATE</p> <p align="center">10/17/16</p>
<p>c. NAME AND TITLE</p> <p>John Walz, PE – Vice President, Aviation</p>	

3 - FIRM QUALIFICATIONS AND EXPERIENCE

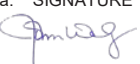
STANDARD FORM 330

ARCHITECT – ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER <i>(If any)</i>	
PART II – GENERAL QUALIFICATIONS					
<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>					
2a. FIRM (OR BRANCH OFFICE) NAME RS&H, Inc.			3. YEAR ESTABLISHED 1990		DUNS NUMBER 613387281
2b. STREET 10748 Deerwood Park Boulevard, South			5. OWNERSHIP		
2c. CITY Jacksonville					
2d. STATE FL			a. TYPE Corporation		
2e. ZIP CODE 32256			b. SMALL BUSINESS STATUS No		
6a. POINT OF CONTACT NAME AND TITLE John Carrigan, PE, LEED AP, Aviation Structural Engineer			7. NAME OF FIRM <i>(If block 2a is a branch office)</i> RS&H, Inc.		
6b. TELEPHONE NUMBER 954.236.7396		6c. E-MAIL ADDRESS John.Carrigan@rsandh.com			
8a. FORMER FIRM NAME(S) <i>(If any)</i> Reynolds, Smith and Hills, Inc.			8b. YR. ESTABLISHED 1990		8c. DUNS NUMBER Unchanged

9. EMPLOYEES BY DISCIPLINE			
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM (2) BRANCH	
02	Administrative	101	60
06	Architect	88	33
16	Construction Manager	23	4
07	Biologist	0	0
08	CADD Technician	31	13
12	Civil Engineer	176	30
15	Construction Inspector	130	4
21	Electrical Engineer	21	15
24	Environmental Scientist	19	6
25	Fire Protection Engineer	3	2
29	Geographic Information System	2	0
37	Interior Designer	9	5
39	Landscape Architect	3	2
42	Mechanical Engineer	41	17
47	Planners: Urban/Regional	42	10
56	Specifications Writer	36	32
57	Structural Engineer	69	27
58	Technician/Analyst	26	17
60	Transportation Engineer	86	16
62	Water Resources Engineer	24	8
	Other Employees	16	7
Total		946	308

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Profile Code	b. Experience	c. Revenue Index Number <i>(see below)</i>
	Design-Build	6
	Engineering Consultations and Reports	6
A05	Airports; Navajds; Airport Lighting; Aircraft	6
A06	Airports; Terminals; & Hangers; Freight	8
B02	Bridges	4
C10	Commercial Building; (low rise); Shopping	4
C13	Computer Facilities; Computer Service	6
C15	Construction Management	4
E02	Educational Facilities; Classrooms	6
E07	Energy Conservation; New Energy Sources	6
H07	Highways; Streets; Airfield Paving; Parking	8
I01	Industrial Buildings; Manufacturing Plants	4
I05	Interior Design; Space Planning	5
L01	Laboratories; Medical Research Facilities	5
O01	Office Building; Industrial Parks	6
P05	Planning (Community; Regional; Areawide &	7
P06	Planning (Site, Installation and Project)	4
T03	Traffic & Transportation Engineering	6
	Architectural Consultation/Surveys	4
	Land Subdivision and Development	5
	Management	8
	Financial Establishments (Banks)	6

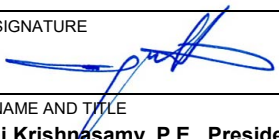
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	7	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than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

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
a. SIGNATURE 	DATE 10/17/16
c. NAME AND TITLE John Walz, PE – Vice President, Aviation	



3 - FIRM QUALIFICATIONS AND EXPERIENCE

STANDARD FORM 330

ARCHITECT ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any)		
PART II - GENERAL QUALIFICATIONS						
(If a firm has branch offices, complete for each specific branch office seeking work.)						
2a. FIRM (OR BRANCH OFFICE) NAME TIERRA SOUTH FLORIDA, INC.				3. YEAR ESTABLISHED 2003	4. DUNS NUMBER 829296222	
2b. STREET 2765 Vista Parkway, Suite 10				5. OWNERSHIP		
2c. CITY West Palm Beach		2d. STATE FL	2e. ZIP CODE 33411	a. TYPE Corporation		
6a. POINT OF CONTACT NAME AND TITLE Raj Krishnasamy, P.E., President/Principal Engineer				b. SMALL BUSINESS STATUS FDOT UCP DBE Florida Statewide OSD MBE		
6b. TELEPHONE NUMBER (561) 687-8536		6c. E-MAIL ADDRESS Raj@TierraSF.com		7. NAME OF FIRM (If block 2a is a branch office) N/A		
8a. FORMER FIRM NAME(S) (If any) N/A				8b. YR. ESTABLISHED N/A	8c. DUNS NUMBER N/A	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE 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			
2	Administrative	6	6	S05	Soils and Geologic Studies; Foundations	6
8	CADD Technician	2	2	T02	Testing and Inspection Services	6
27	Foundation/Geotechnical Eng	5	5			
58	Technician/Analyst	30	30			
58	Technician/Inspector	6	6			
Total		49	49			
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	6	1. Less than \$100,000.		6. \$2 million to less than \$5 million		
b. Non-Federal Work	6	2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million		
c. Total Work	6	3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million		10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						
a. SIGNATURE 				b. DATE October 21, 2016		
c. NAME AND TITLE Raj Krishnasamy, P.E., President/Principal Engineer						



STANDARD FORM 330

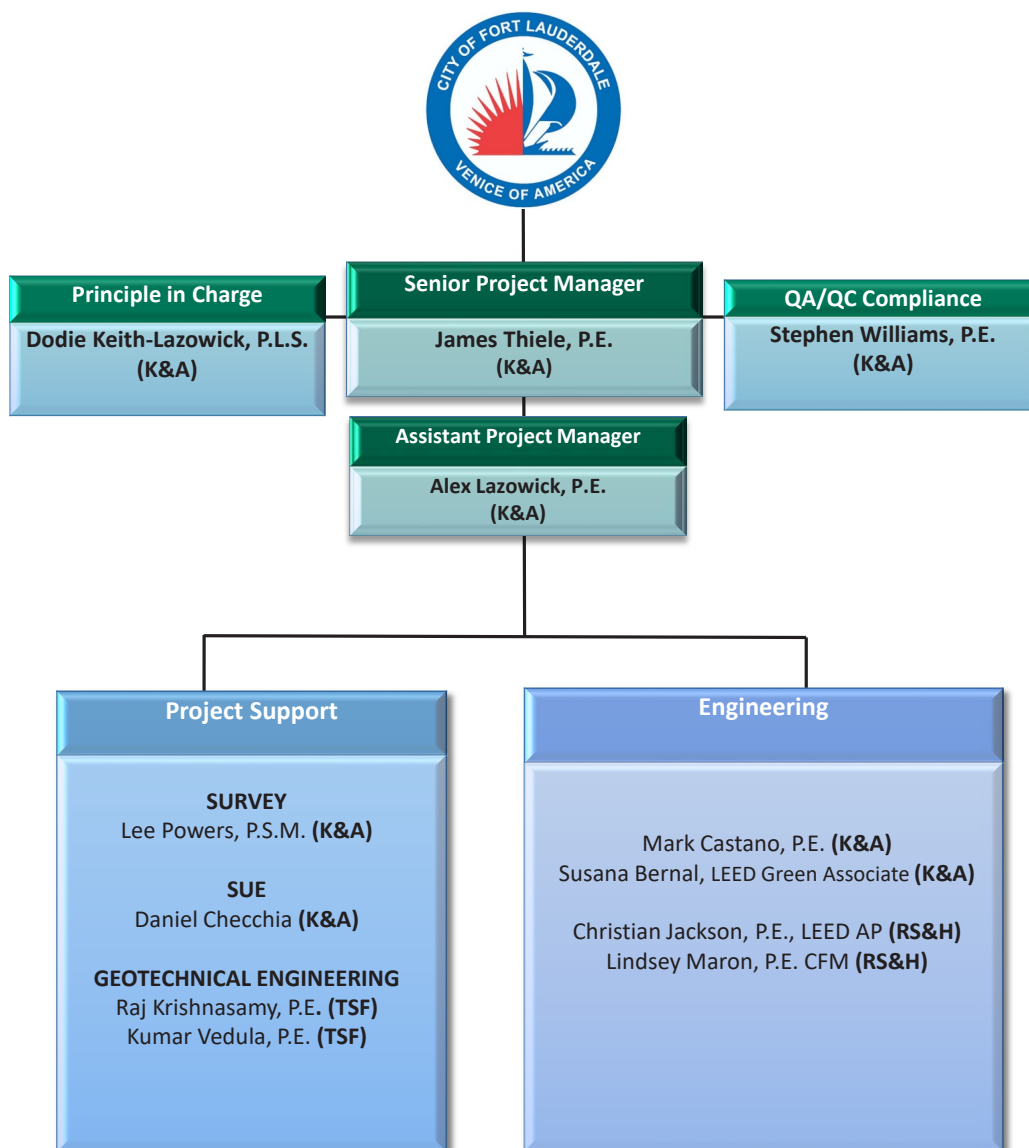


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4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

Our subconsultant team was selected with emphasis placed on professional consultants recognized as leaders in their field and experienced in servicing aviation contracts. Moreover, we have included **RS&H** and **Tierra South Florida** because we have a proven record of having worked together successfully on projects such as the South Runway Expansion at Fort Lauderdale-Hollywood International Airport, Ravenswood Drainage Study at FLL, Taxiway Charlie West at FLL, Taxiway Charlie at FLL, High Speed Taxiway at FLL and Bombardier at FLL. Our staff has been working together for several years, thereby cultivating relationships that allow for ease of communication and efficient allocation of responsibilities.

ORGANIZATIONAL CHART



Legend

Keith and Associates (K&A)
RS&H (RS&H)
Tierra South Florida (TSF)



4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

KEY TEAM MEMBERS' ROLES (FOR RESUMES, PLEASE REFER TO SF 330)



DODIE KEITH-LAZOWICK, P.L.S.

will serve as the Principal-in-charge responsibility for the overall leadership of the Team, ensuring sufficient resource allocations and the corporate commitment to guarantee responsive service and a work product that meets the highest professional standards. Ms. Keith-Lazowick has personally served as the Principal-in-Charge and Co-Project Manager for all of the Firm's airport

engineering services contracts to date. FXE is our airport too and the success of these projects are a matter of pride to KEITH AND ASSOCIATES and our team. It has always been Ms. Keith-Lazowick's personal goal to maintain the integrity of KEITH AND ASSOCIATES, as was established by its founder, Bill Keith, who engaged his life and reputation to working in and for Broward County.



ALEX LAZOWICK, P.E. will serve as the Assistant Project Manager. As one of Keith and Associates' Lead Aviation Engineers, he will ensure the timely success of this project. His six years of aviation experience includes project management, drainage design, flood analysis, hydrologic modeling, environmental permitting and construction

administration services. His responsibilities will range from project coordination, drainage modeling and plans preparation. Further Mr. Lazowick has in-depth experience with the FAA's Series 150 Advisory Circulars and permitting through SFWMD. and BCEPGMD.



MARK CASTANO, P.E. has more than 19 years of experience in Civil Engineering projects throughout South Florida. His qualifications include planning, engineering design, permitting, construction administration and project management for a variety of Civil Engineering projects. His experience includes designing

and managing a wide variety of public and private land development (residential, commercial, institutional and industrial) projects. He has extensive technical knowledge in water distribution systems, stormwater management systems, sanitary sewer systems including sewer lift stations, gravity sewers and force mains, roadway design throughout Miami-Dade, Broward, and Palm Beach counties.



JAMES THIELE, P.E. will serve as the Senior Project Manager and Engineer-of-Record for the Team. Mr. Thiele has over 37 years of experience managing and performing, planning, design and construction administration of civil engineering, transportation, utility and aviation improvement projects. Over the last three (3) years, he has served in the

role of Senior Project Manager for all of KEITH AND ASSOCIATES's ongoing airport engineering services including airfield and landside paving, transportation and utility projects at FLL. Mr. Thiele has an excellent record of establishing project budgets/schedules and maintaining those budgets/schedules throughout construction. With his particular attention to details, he has provided quality workmanship, including clear design solutions that allow for expedited agency permitting and result in minimal contractor change orders that generally pertain to unforeseen existing conditions.



STEPHEN WILLIAMS, P.E. will serve as the QA/QC Manager. He 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, water management, municipal, aviation, recreation, roadway,

and land development (residential, mixed-use and commercial) projects in South Florida. These include notable projects at Florida's Turnpike, Miami International and Fort Lauderdale Hollywood International Airports. Projects have included roadway and site engineering design and analysis (paving, grading, drainage, water, sanitary sewer design and construction administration). He is a native of Fort Lauderdale and currently serves on the Fort Lauderdale Unsafe Structures Board.



SUSANA BERNAL, LEED GREEN ASSOCIATE

has more than 20 years of experience includes civil engineering design, project administration, preparation of qualification packages and bid evaluations for all types of public and institutional areas including all aspects of site planning,

grading and drainage, roadways, sanitary sewer collection, water distribution system design, structures, hydroelectricity, water distribution systems, substations, and construction supervision services. Further she has in-depth experience in the use computer-aided drafting and design (CADD) programs including Microstation and AutoCAD Civil 3D. She has been the Project Engineer for a variety of projects at FLL.

4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

KEY TEAM MEMBERS' ROLES (FOR RESUMES, PLEASE REFER TO SF 330)



LEE POWERS, P.S.M. will serve as Project Surveyor. Mr. Powers has over eleven years of experience in land surveying and mapping in South Florida. Since 2009, he has served as a Project Surveyor and GIS Specialist with Keith and Associates. He has extensive Project Management experience for large-scale projects and continuing service type contracts. He is knowledgeable in the use of a wide range of state-of-the-art surveying and mapping equipment and associated computer technologies. He has extensive experience in field crew supervision, quality control and client relations. He has completed projects at FLL, MIA and PBI.



DANIEL CHECCHIA has over 19 years of experience in transportation engineering, surveying, civil design and construction related fields, the last eight years of which have been focused on Utility Coordination and Subsurface Utility Engineering. His duties are to oversee the day-to-day operations of all Subsurface Utility Engineering and Coordination projects for our firm. He is responsible for assisting clients with utility research, identification, data management and coordination. He has completed projects at FLL, FXE, MIA and PBI.



CHRISTIAN JACKSON, P.E. will lead RS&H's efforts on this contract. He is a Senior Drainage Engineer/Project Manager for RS&H's Transportation-Infrastructure Practice and is responsible for project management, drainage design, and environmental permitting for transportation, infrastructure, and aviation projects. He has more than 17 years of experience in drainage design, environmental permitting, and project management. He is the Water Resources Director for RS&H in south Florida and is involved in all aspects of transportation, infrastructure, and aviation projects. Mr. Jackson has extensive experience in planning, Project Development and Environment (PD&E) studies, final design, private-public partnerships, and post-design.



LINDSEY MARON, P.E., CFM is an Aviation Drainage Engineer with RS&H. She is responsible for stormwater management design and water resources activities for RS&H's Aviation Practice. She has six years of experience in aviation drainage design, flood routing/analysis, hydraulic and hydrologic analysis of watersheds, and plans preparation. She is responsible for performing hydraulic and hydrologic modeling for a variety of projects including stormwater collection systems, stormwater management facilities, and environmental permitting.



RAJ KRISHNASAMY, P.E. oversees the geotechnical engineering, construction materials testing, and inspection services operations for **Tierra South Florida**. He has worked on over 140 aviation projects throughout the state and is the Lead Geotechnical Engineer on numerous aviation continuing contracts including: "Professional Consultant Services for Fort Lauderdale-Hollywood International Airport and North Perry Airport, Building Projects", "Palm Beach County Department of Airports General Consultant Services", and the City of Fort Lauderdale's "Aviation Consulting Services, General Engineering" amongst others.



KUMAR VEDULA, P.E. serves as Principal Geotechnical Engineer for **Tierra South Florida**. He has over 20 years of experience providing engineering services for a wide variety of geotechnical projects involving foundation design, slope stability analysis, WEAP analysis and interpreting PDA reports, excavation support, and construction inspection. His extensive experience includes foundation inspections (shallow and deep foundations), soil modification (dynamic compaction, stone columns), preloading, excavations, backfilling, and post construction monitoring.

The strength of an organization can be measured by the character of its staff. Our dynamic team includes professionals that share a belief in technical excellence, innovation, integrity and customer service.

4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

PROJECT MANAGER PROFILE



“

My commitment to the City of Fort Lauderdale and to the staff at FXE is to work as a trusted partner, as an extension of your staff and to provide 110% to always live-up to your expectations. ”

Mr. **James Thiele, P.E.** will serve as the general Project Manager and main point of contact for the City. Keith and Associates commits Mr. Thiele for the entire duration of the assignment and understands the importance of his personal commitment to the contract's success. He is responsible for coordinating and managing all sub-consultant partners, as well as Keith and Associates staff assigned to the project. He will ensure that all tasks are completed in a timely and effective manner, that proper communication and coordination are maintained and that all project activities are accurately documented. He will be involved in every aspect of each assignment from design start-up through project closeout to ensure the highest quality project in the most responsive and timely manner.

Mr. Thiele has over 37 years of experience managing and performing, planning, design and construction administration of civil engineering, transportation, utility and aviation improvement projects. His work knowledge includes civil related engineering design, planning, permitting, design, construction inspections and construction management. Over the last 4 years, he has served in the role of Senior Project Manager for all of the Firm's ongoing airport engineering services including airfield and landside paving, transportation and utility projects. Recent projects he has overseen include:

NSU West Basin Master Stormwater Basin Study
Hallandale Fire Station - Stormwater Plan and Calculations
Tamarac Fire Station - Stormwater Plan and Calculations
MLK Blvd. Educational Corridor (City of Pompano Beach) Street Improvements - Stormwater Plan and Calculations
Quigley Park Tennis Center (City of Parkland) - Stormwater Plan and Calculations
City of Parkland Major Plan Reviews for City

Following are just some examples of Mr. Thiele's project management approach which includes stewardship, oversight, leadership, technical support and promotion of continuous quality control and improvement measures. He understands that public agency project oversight requires accountability that must be documented throughout the project and practiced by each of the team members. The key to a successful project management program is the acceptance of responsibility and accountability by the project/contract staff, and support from the client's management staff.

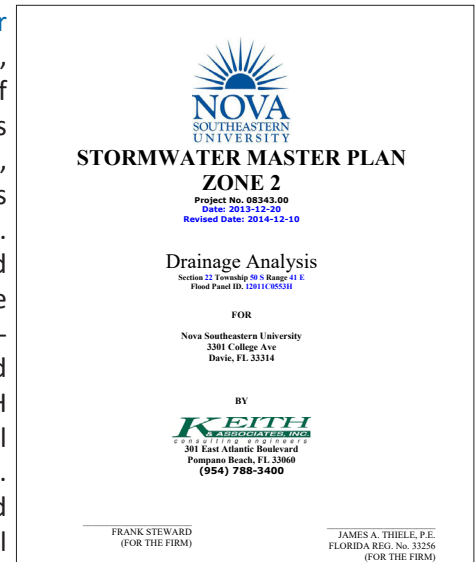
Mr. Thiele's strengths include his responsiveness to the client, his ability to direct and coordinate team members, his ability to manage projects within schedule and budget, his ability to think outside the box and his desire to tackle challenging tasks

4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

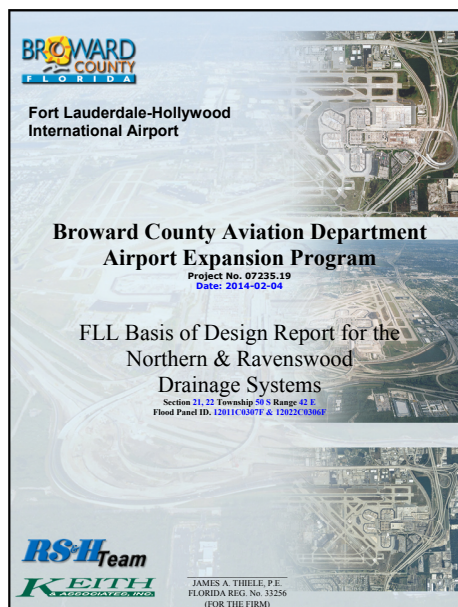
PROJECT MANAGER PROFILE

Mr. Thiele has an excellent record of establishing project budgets and schedules, as well as with maintaining those budgets and schedules throughout construction. With his particular attention to details, he has provided clear design solutions with quality control and assurance that allow for expedited agency permitting that result in minimal contractor change orders.

An example of his leadership and proactive management is the [Master Stormwater Management Plan at Nova Southeastern University](#). KEITH AND ASSOCIATES, INC. researched multiple phases of historical design of the central 70+ acres of storm-water management planning and permitting. The challenging aspect of this study, in combining the historical phases into a single Stormwater Master Plan, was the stakeholder's need to maintain flexibility for future site improvements and renovations. Over 25 planning iterations were considered in the modeling. Mr. Thiele conceptualized a 36 inch RCP conveyance pipeline that was positioned through the North/South limits of the project to accommodate the future site improvements and renovations. This allowed for the flexibility to re-distribute run-off flows in the future when storm-water management parcels may be relocated within the study area to allow for new site improvements and renovations. KEITH AND ASSOCIATES, INC. coordinated findings with University stakeholders, Central Broward Water Control District and South Florida Water Management District. Conceptual permits for this Master Storm-water Management Plan were issued by South Florida Water Management District and Central Broward Water Control District.



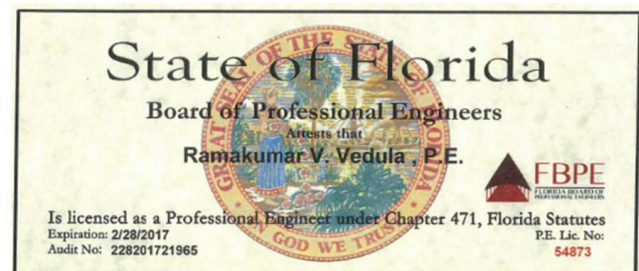
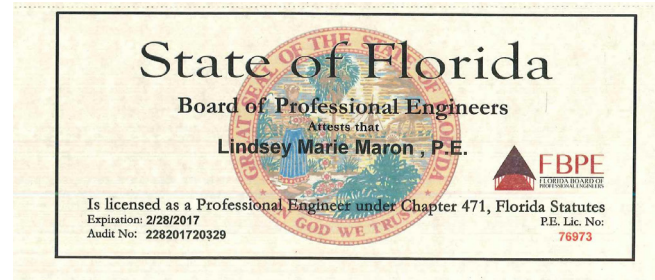
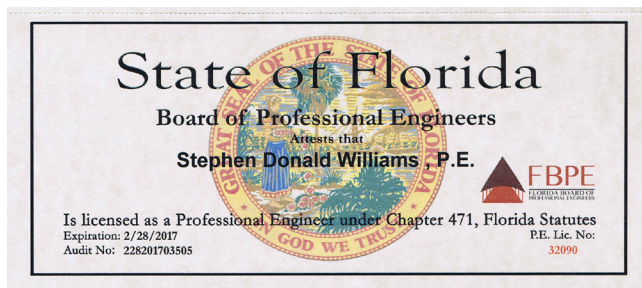
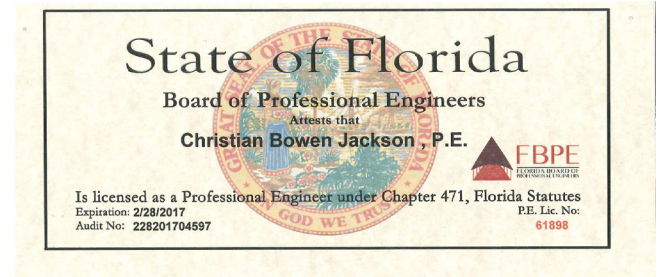
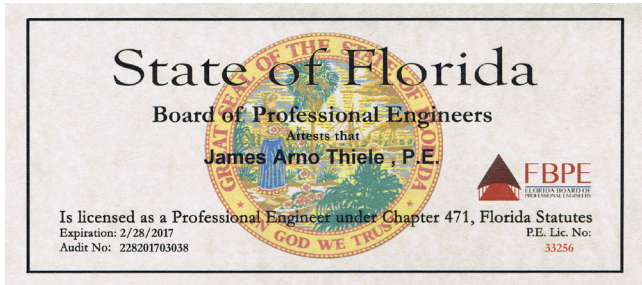
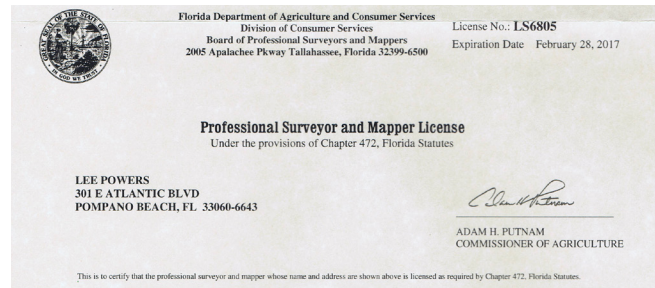
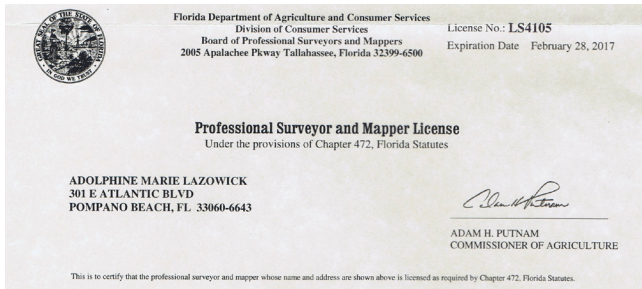
Previous incremental designs and permitting of this area were performed using spreadsheets and the SFWMD "Cascade" program. Combining these designs by nodal representations allowed KEITH AND ASSOCIATES, INC. the opportunity to evaluate sub-areas of higher run-off (dense development to available water management facilities ratio) using the "iCPR" program. Required routing conduits are then able to be designed for Design/Development and Construction Drawings for permitting. The modeling addressed water quality, storm-water attenuation and management systems that comply with the CBWCD, U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Florida Department of Transportation, Town of Davie and SFWMD criteria. Challenges in this design included accurately determining current conditions from previous redevelopment projects. Detailed site investigations were necessary. Planned land swaps that expanded and reduced the boundary as well as a public canal relocation were taken into consideration. There also existed a general deficit in storm-water storage facilities when KEITH AND ASSOCIATES, INC. commenced work on the study area.



A noteworthy project is the [FLL Northern and Ravenswood Master Drainage Systems Study](#) recently completed by Keith and Associates. Previous consultants had provided an engineering recommendation that encompassed an elaborate pumping system design to convey drainage runoff under Interstate 95 to the Ravenswood Basin. Keith and Associates, as a subconsultant to RS&H, was brought on to perform a new drainage study of the +/- 352 Acres to determine if an alternative more cost effective solution could be determined. Through additional survey ground trothing, engineering calculations and evaluation, Mr. Thiele determined there would be adequate stormwater conveyance by means of a simple gravity system, thereby substantially reducing the cost of the proposed drainage solutions for BCAD by dismissing the more costly pumping system. This reduction in anticipated comparable cost provided a savings differential estimated at \$6.5 million from the initial study and recommendation.

4 - ORGANIZATIONAL PROFILE & PROJECT TEAM

TEAM MEMBERS LICENSES

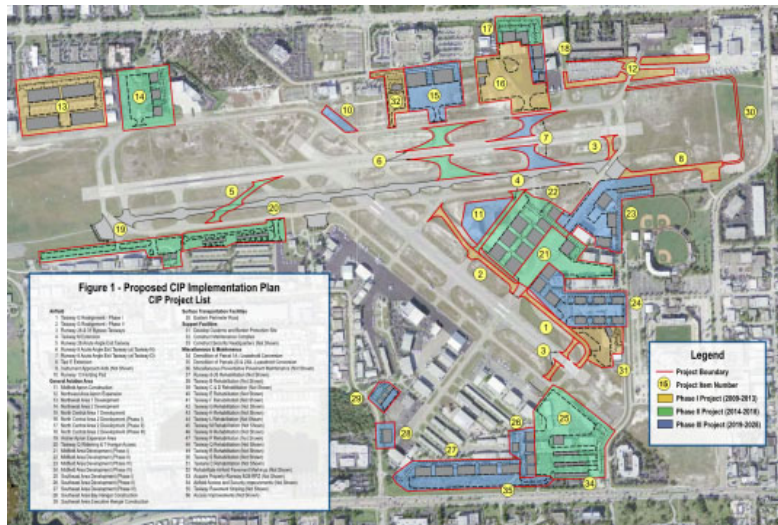


5 - APPROACH TO SCOPE OF WORK



**FORT LAUDERDALE
EXECUTIVE AIRPORT**

is a general aviation airport owned and operated by the City of Fort Lauderdale (City). FXE ranks as one of the busiest general aviation airports in the country with more than 165,000 annual operations. It is the busiest general aviation facility for U.S. Customs passenger and aircraft clearings. As shown in the 2009 *Strategic Business Plan & Master Plan Update*, the number of operations is expected to continue to increase relating in the need for additional FBOs, taxiways, landside facilities and other improvements to handle the additional capacity. Planning and development of these projects at FXE are conditioned on adequate stormwater management. This includes water quality and flood protection requirements more or less typical to all projects in the area. Additional provisions unique to the airport environment are needed to avoid or mitigate wildlife attractants and other safety hazards. The added safety provisions often dictate atypical water quality and flood protection solutions. Solutions of this type will be used to obtain Environmental Resource Permits (ERP) from the South Florida Water Management District (SFWMD); local approvals from Broward County Environmental Protection Department (BCEPGMD); the City of Fort Lauderdale; and approvals from the Federal Aviation Administration (FAA).



This Master Drainage Plan will outline design criteria and structural controls for water management systems for FXE. It will include both an Existing Conditions Component and a Future Conditions Component. The Existing Conditions Component establishes the baseline water quality and flood impact conditions. The Future Conditions purpose is to identify methods to meet or improve baseline conditions as development occurs. The total document will be used to apply for a Conceptual Environmental Resource Permit from BCEPGMD. This will establish the approach and criteria for up to a 20-year planning horizon. BCEPGMD construction permits will still be required for new development and some re-development but the water management approaches, and in some cases the actual facilities, will be pre-established. The water management systems and approaches will also be pre-approved by FAA when the plan is complete. Safety improvements, monetary savings and permitting time reductions are expected benefits.

OUR TEAM

The KEITH AND ASSOCIATES, INC. team has experienced, technically skilled individuals who are readily available to provide the City of Fort Lauderdale with the services necessary to successfully develop and acquire a master drainage permit for FXE. We have assembled the appropriate team members for each specific task areas and have the ability to provide additional professionals for any unique tasks that may arise. Our intimate knowledge of the City of Fort Lauderdale, coupled with our technical expertise, ensures that our approach and methodology will result in accurate documents and designs. The combination of our firm's local presence, experienced personnel, institutional experience and our reputation for quality and timely project completion as well as a proactive project approach, provides for a strong competent project team.

We have selected RS&H as our key sub-consultant. The KEITH AND ASSOCIATES, INC. and RS&H team have established a successful aviation partnership dating back to the early 2000's. We have seamlessly worked together for many years as responsible stewards of our clients' budgets and schedule commitments, while consistently providing the most efficient engineering designs.

5 - APPROACH TO SCOPE OF WORK

Keith and Associates, Inc. and RS&H have worked on numerous Fort Lauderdale Executive Airport (FXE) projects. This work has included Engineering, Surveying and Subsurface Utility Engineering services. We have also worked on numerous other projects together throughout Fort Lauderdale including on our current General Engineering Consultant contract for Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO). As a result of our extensive experience, we are thoroughly familiar with the permitting of all local and state agencies involved in acquiring the desired master drainage permit.



No team can match our years of carefully fostered management practices, coupled with the passion, commitment and strong work ethic of the Keith and Associates and RS&H staff

PROJECT MANAGEMENT

KEITH AND ASSOCIATES, INC. understands it is imperative to have senior staff members overseeing the planning, major design, permitting and construction components of all projects. This corporate philosophy results in an extremely efficient and responsive project management approach, as well as superior project designs prepared on time and within budget. As one of the veteran Broward-based engineering firms, we have provided Engineering Services as a prime consultant for numerous governmental agencies for decades. Mr. Bill Keith, followed by Ms. Dodie Keith-Lazowick, have spent their entire careers right here in Broward County, providing high quality projects time and again for our clients.



Keith and Associates' approach to this contract includes quality responsiveness and skilled management combined with the technical ability and level of experience that will provide superior service to FXE. We are extremely proud of our accomplishments as a Local, Mid-Size Business in Broward County and truly believe our commitment and dedication to the success and progress of our County makes us the best choice for this contract.

5 - APPROACH TO SCOPE OF WORK

The Keith and Associates Team will implement a rigorous communication protocol among all project participants. The basis of our management approach will focus on managing communication between our team and FXE, as follows:

- ▶ Provide a Single Point of Contact - Senior Project Manager, Mr. James Thiele, P.E., experienced with Fort Lauderdale, Broward County, SFWME and FAA personnel, policies and procedures
- ▶ Stress early planning and scheduling
- ▶ Identify affected stakeholders and provide clear lines of communication to all, as required
- ▶ Understand the objectives of the project and assure that all project stakeholders have the same level of commitment and expectation in understanding the scope of work
- ▶ Schedule periodic progress meetings
- ▶ Establish strong, ongoing working relationships with the FXE staff

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

We will establish clear lines of communication and review procedures among team members to ensure the continuous and timely flow of work in the planning and design phases. We will work closely with staff from FXE's Capital Improvement Program, Maintenance, Operations and Planning departments to ensure that the project's scope and objectives are well understood.

ENGINEERING APPROACH

Our approach to every project begins with a "No Excuses" methodology. We bring a unique combination of top quality consultants with years of in-depth aviation experience under the leadership of KEITH AND ASSOCIATES, a firm you know you can trust with your most important projects. Our approach to develop this master drainage permit will be very similar to the master drainage permits we helped develop at Fort Lauderdale-Hollywood International Airport (FLL) and the Pompano Beach Airport (PMP).

Our approach to develop this master drainage permit will be very similar to the master drainage permits we helped develop at Fort Lauderdale-Hollywood International Airport (FLL) and the Pompano Beach Airport (PMP).

The master drainage permit will provide guidance for modernizing the existing systems, while maintaining a high level of service, as well as set clear guidelines for future development

Our first step would be to analyze all existing data already obtained by FXE. Reviewing the 2012 Master Drainage Plan and Study, FXE already has a significant amount of data collected which could be reused, representing a cost savings. In addition to reviewing the drainage data, the entire drainage system will be inspected to ensure the current system is operating at its peak efficacy and documented correctly. After the review of the record documents, our Team will identify the survey and geotechnical needs for the master drainage permit.

The 2012 Master Drainage Plan and Study currently shows 60 Sub-Basins at FXE. These previously defined 60 sub-basins would be reviewed and updated with their current total area, existing impervious, basing low point, average ground surface elevation, typical pavement or structure elevation and the storage volume available. Our team would constantly be looking for ways to better define FXE's master drainage system.

5 - APPROACH TO SCOPE OF WORK

After the existing site information is recorded we would then work with the FXE staff and all other stake holders to review the ALP/Master Plan. This is a critical step to ensure all future develop is shown within the master drainage permit. A schedule of prioritized capital improvement projects would also be developed to ensure FXE's stormwater system meets the increasing performance and regulatory demands as the airport grows.

With the future developments planned out the master drainage model can now be set up. Several different programs can be used to model the airfield but we feel EPA's Stormwater Management Model (SWMM) or Interconnected Channel and Pond Routing Model (ICPR) are the two best options. Several alternative solutions will be devolved to allow FXE to make a clear and educated decision on their final solution.

PERMITTING PROCESS

KEITH AND ASSOCIATES, INC. will prepare and process all permitting/approval applications to the various governmental and quasi-governmental agencies including but not limited to the City of Fort Lauderdale, Broward County Environmental Protection and Growth Management Department (BCEPGMD) and South Florida Water Management District (SFWMD).

Throughout the entire project our approach includes continuous coordination with FXE staff, the City of Fort Lauderdale, BCEPGMD, as well as SFWMD personnel

In addition to having a very close relationship with all jurisdictional agencies, **KEITH AND ASSOCIATES, INC.** has also been successful in processing permit approvals, expediting permit approvals, processing construction permit certifications and operational recertifications for several projects in which alternative underground storage systems were the only feasible option available for a particular project.



Broward County Environmental Protection and Growth Management Department - Environmental Licensing and Building Permitting Division – Environmental Engineering and Licensing Section:

- ▶ Carlos R. Adorisio, PE – Engineering Unit Supervisor
- ▶ Jose Portillo - Engineer II, Surface Water Management Licensing Section Reviewer
- ▶ Johana Narvaez, Engineer II - Surface Water Management Licensing Reviewer
- ▶ Danyl A. Noel, E.I., Engineer I - Surface Water Management Licensing Reviewer
- ▶ Garth Hinkle, PE – Wastewater Management Licensing Section Manager
- ▶ Yvel Rocher, PE – Wastewater Management Licensing Section Reviewer
- ▶ Andrea Gibbs, NRS - Wastewater Management Licensing Section Reviewer

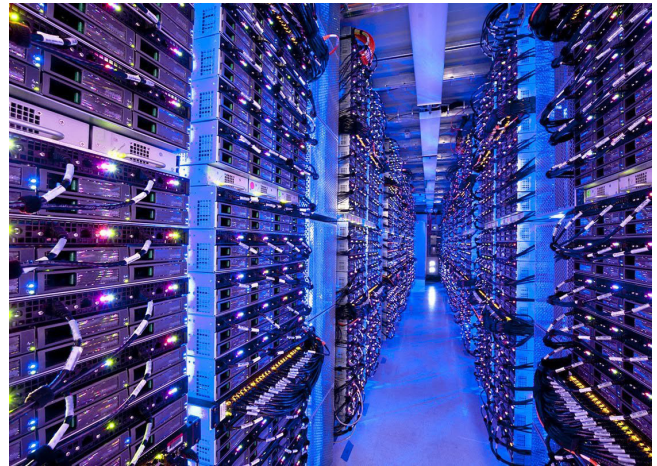
5 - APPROACH TO SCOPE OF WORK

South Florida Water Management District (SFWMD):

- ▶ Robert Hopper, Lead Environmental Analyst, Environmental Resource Permitting Bureau
- ▶ Anita Bain, Bureau chief, Environmental Resource Permitting Bureau
- ▶ Carlos DeRojas, Surface Water Supervisor, Environmental Regulation
- ▶ Simon Sunderland, Section Leader, Lower East Coast Permitting and Compliance
- ▶ Dan Boyar, Right-of-Way Permitting

CUTTING EDGE RESOURCES

Anyone who has created and run a large SWMM or ICRP model knows the time it takes to get your results. Even with some of the best desktop computers, we've seen models take several hours to run and complete. This hampers productivity and the ability to quickly and efficiently update the drainage model. To solve this issue, KEITH AND ASSOCIATES, INC. has purchased space on a Microsoft Super Cloud Computer. This Super Computer can be scaled up and down for our every needs. If we wanted to run 5 ICRP alternatives simultaneously while writing the drainage report, the computer would run seamlessly. The Microsoft Super Cloud Computer runs behind one of the most secure firewalls to ensure data security. KEITH AND ASSOCIATES, INC. is always exploring new technologies to ensure we are providing the best service and design to our clients.



MICROSOFT SUPER CLOUD COMPUTER

QUALITY ASSURANCE/QUALITY CONTROL

A major aspect of the Project Management and the quality commitment to this contract is 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 involvement 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, CADD compliance of 95% or better and closures/data/calculations reviews. The Keith and Associates Team continually monitors its QA/QC plan and makes adjustments as lessons learned are implemented into the Plan. Mr. Williams bears the ultimate responsibility for the Team complying with 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 it deserves.

SCHEDULE/BUDGET RESPONSIVENESS

While all work elements must be executed in a quality fashion, they also must be performed responsively, in accordance with the City's schedule and budget objectives. The depth of staff, both in number and experience, will permit us to continue to satisfy our project commitments for the City, without sacrificing quality and responsiveness. Potential delays and cost overruns are contained and minimized through routine weekly department meetings aimed at maximizing project scheduling effectiveness. Senior management oversight and weekly interaction ensures that the delivery, budget and project communication maintain the utmost priority within the Firm. Communication is the key to identifying and resolving project pitfalls quickly, while maintaining schedules and budgets. We have found great success utilizing an approach that has led to effectively identifying problems and quickly defining solutions.

5 - APPROACH TO SCOPE OF WORK

WORKLOAD MANAGEMENT

Commitment to the City of Fort Lauderdale

KEITH AND ASSOCIATES, INC. puts great emphasis on the efficient management of all our contracts. As one of your local businesses, that has had the great fortune to continue to grow over the last 18 years, we carefully monitor our workloads to assure our staffing capabilities and resources match or exceed what is needed for each assignment we pursue. With the upcoming close-out of a number of significant contracts/projects for the firm, the proposed staff and resources are available to start work on one or more of the assignments identified in the solicitation immediately.

Management of Concurrent Workflows

KEITH AND ASSOCIATES, INC. manages its long and short-term workload fluctuations through a policy of proactive senior management and resource/personnel sharing. Our diverse staff has perfected the ability to multi-task on numerous projects, properly prioritizing work efforts and continually communicating with the senior leadership of the firm. Through proper training and years of experience, our staff has perfected the organizational skills and demeanors to handle multiple projects concurrently, while maintaining schedules and quality deliverables. Delays are contained and minimized through routine weekly department/project meetings aimed at maximizing project scheduling effectiveness. These meetings include our subconsultant partners to ensure efficient and adequate use of personnel across the entire team.

Our staff routinely operates on extended and modified work schedules allowing for expedited project executions and absorption of unforeseen schedule challenges. We carefully monitor our staff's hours which allows us to properly plan for additional staffing requirements. In some circumstances, we have actually passed on contracts if we felt they would unduly burden our staff to perform in a timely efficient manner.

This senior management oversight and weekly interaction ensures that the delivery and project communication remain with the utmost priority within the firm.

Current Workload

Given our current and projected workloads for the staff proposed herein, KEITH AND ASSOCIATES, INC. and its Subconsultants can and will provide the personnel and resources required to service Fort Lauderdale and FXE for this contract. Ms. Dodie Keith-Lazowick, as the client resource officer, will personally ensure that adequate office and field personnel are available, as needed, for this important contract and for the City of Fort Lauderdale.

WE KNOW HOW TO WORK WITH YOU

To reiterate, the KEITH AND ASSOCIATES Team has performed and managed a multitude of stormwater analyst contracts for airports, local municipalities and public agencies within Southeast Florida. Our experience has resulted in a thorough knowledge and practice of the standards and how to apply them with a practical and common sense approach to solving civil engineering, surveying and mapping, planning and landscape architecture challenges. We believe that building relationships is what it takes to truly understand the concerns of the client and to address those concerns in a professional manner that is personal to the them. We take pride in building long-lasting relationships and acting as a fully competent extension of our clients' staff.

SAFETY

Accidents do not happen without cause. The identification, isolation and control of these causes are underlying principles of all accident prevention techniques. Education and training are an ongoing and daily process within the Keith and Associates team structure. Through adequate instruction, personnel gain useful knowledge and develop safe work habits. Our Field Review and Safety Supervisor, Mr. Sean Marshall, holds weekly "tool box" safety meetings in accord with O.S.H.A. specifications.

5 - APPROACH TO SCOPE OF WORK

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

All of our field personnel have received Maintenance of Traffic (M.O.T.) 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 and CSX Rail Corridor Access. Keith and Associates 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. If you need us there, we can go there.



DRUG FREE WORKPLACE PROGRAM

KEITH AND ASSOCIATES, INC. maintains a proactive drug-free workplace program. We inform employees about the dangers of drug abuse in the workplace, the company's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, as well as the penalties that may be imposed upon employees for drug abuse violations. We make a good faith effort to continue to maintain a drug-free workplace through implementation of this program.

COMMITMENT TO SUCCESS▶

The KEITH AND ASSOCIATES Team is a representation of the combined experience, strengths and capabilities of three (3) professional firms who have all been providing services to FXE and have worked in Fort Lauderdale for decades. This combination provides FXE with a diverse team, led by a firm that is truly Broward based and well known in the community.

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

Understanding the proposed scope and schedule of this Master Drainage Permit Project is the fundamental to the success of the project and **the KEITH AND ASSOCIATES Team knows what it takes** to meet the expected goals and objectives of FXE and all the associated stakeholders. Our Team has proven that we can meet the challenges and deliver FXE projects successfully. As we have already proven, ***we are fully committed to being a true partner with FXE, always keeping the City's interests at heart, while delivering projects on time and within budget.***



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6 - REFERENCES

Positive feedback from clients, owners and stakeholders is truly the best way to gauge a firm's performance. KEITH AND ASSOCIATES, INC., strives to deliver the best solutions and service, while being a trusted partner.

South Runway Expansion at Fort Lauderdale - Hollywood International Airport



KEITH AND ASSOCIATES, INC. is providing professional design services for the Expansion of Runway 10R/28L, as ENGINEER OF RECORD for Utility and Roadway

Designs, as a subconsultant partner with PBS&J/Atkins. Keith and Associates is responsible for the complete relocation and upgrade of the existing water distribution and sanitary sewer force main utilities surrounding the runway improvements as well as coordination with all utility stakeholders. We were initially tasked to prepare a Project Definition Document (PDD) Validation Report, Design Criteria Package, Utility Corridor Report and a Preliminary Engineering Report and assisted in the development of the Earthwork Management Plan to coordinate the import and placement of 6.5 million cubic yards of fill during construction. These evaluations included providing engineer's estimate of probable construction costs for use in a Life Cycle Cost Analysis Report of these utility systems.

Broward County Aviation Department
Marc Gambрил, Director, Capital Improvement Projects
Division, Aviation Department
4101 Ravenswood Road
Fort Lauderdale, FL 33312
(954) 359-2343

mgambrill@broward.org

Contract: 2011 – 2015

Cost: \$791 Million (estimated)

Pompano Beach Air Park Master Drainage Plan

As a Sub-Consultant, KEITH AND ASSOCIATES, INC. was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The project consisted of field reconnaissance, surveys and reviews of all available City information and data affecting drainage and storm drainage infrastructure, preparation of analyses, design reports, feasibility studies and design alternative, recommendations, along with associated project cost estimated for related infrastructure improvements, update of the SWMPPP and recommendations for implementation, monitoring and reporting,

meetings and presentations before stakeholder groups, advisory boards and elected officials, preparation of required submittal packages for agency having jurisdiction.

Pompano Beach Air Park

Steven P. Rocco, Air-
port Manager
1001 NE 10th Street
Pompano Beach, FL
33060

(954) 786-4193

steve.rocco@copbfl.com

Contract: 2010 – 2012

Cost: \$1 Million (Estimated)



Port Everglades Southport Phase IX-B Container Yard Stormwater Report

This project entails the design, permitting and construction contract administration associated with the development of new cargo handling container yards. These container yards are integral to the expansion of Port Everglades' Southport



Turning Notch, which is currently under development. 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 acre total of Parcels A, B and C. The Project also includes the construction of an additional 1.2 Ac. dry retention area, which will connect to the existing western dry retention areas with dual 42" reinforced concrete pipes west of the FEC-ICTF lease parcel. These 42" connections are in lieu of the connections to the western retention areas that are in the existing conceptual permit. The proposed project will drain to the enlarged western stormwater retention areas and discharge offsite through the existing Southport discharge structures and the proposed Control Structure 6AC.

Matthew Harold, P.E.

Project Manager IV

Seaport Engineering & Construction Division

1850 Eller Drive

Fort Lauderdale, FL 33316

Tel: 954-468-0157 - mharold@broward.org

Contract: 2016



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7 - MINORITY (MBE) PARTICIPATION

Keith and Associates is committed to supporting the City of Fort Lauderdale in its efforts to promote small and disadvantaged businesses. As a certified DBE firm, Keith and Associates, Inc. understands the importance of working with certified minority business enterprise firms to ensure equal opportunity. As such, we understand the importance of and are dedicated to supporting diversity within our industry. Keith and Associates is proud to have achieved a **99.98%** CBE attainment for Broward County projects in which we have served as the Prime.

When possible and available, we look to include companies certified as minority, women and service-disabled veteran business enterprises. We maintain a list of qualified, certified firms and look for opportunities to invite these firms to participate. For this important contract, we have included Tierra South Florida on our team. We have previously worked with Tierra South Florida and look forward to utilizing our past experiences to positively impact this contract.



State of Florida
*Minority, Women &
Service-Disabled Veteran*
Business Certification

Tierra South Florida, Inc.

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

November 30, 2015 to November 30, 2017


Torey Alston, Executive Director

Florida Department of Management Services
Office of Supplier Diversity

Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399-0950 • 850.487.0915 • www.osd.dms.state.fl.us

Florida UCP DBE Directory

Number of Records Returned: 1
Selection Criteria:
Vendor: KEITH AND ASSOCIATES INC

Vendor Name: KEITH AND ASSOCIATES INC
DBE Certification: CERTIFIED
DBA:
Business Description: SURVEYING SUE LANDSCAPE ARCHITECTURE PLANNING CIVIL ENGINEERING
Mailing Address: 301 EAST ATLANTIC BLVD
POMPANO, FL 33060-
Contact Name: DODIE KEITH LAZOWICK
Email: MAIL@KEITH-ASSOCIATES.COM
Phone: (954) 788-3400 Fax: (954) 788-3500
Statewide Availability: Y

Certified NAICS
541320 Landscape Architectural Services
541330 Engineering Services
541340 Drafting Services
541350 Building Inspection Services
541370 Surveying and Mapping (except Geophysical) Services
541611 Administrative Management and General Management Consulting Services
561990 All Other Support Services

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Page: 1



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8 - SUBCONSULTANT

We believe there is ample opportunity to include a number of subconsultant partners for this contract, while maintaining an overall seamless management approach to the contract. Following years of recent experience at local airports, the subconsultant partners presented herein have been carefully selected for their in-depth experience, reliability, proactive management and familiarity with the City of Fort Lauderdale. We are continuing the long relationships we have shared with major firms such as RS&H and Tierra South Florida. By combining the senior leadership resources of KEITH AND ASSOCIATES, INC. and our exceptional partners, KEITH AND ASSOCIATES, INC. provides the City of Fort Lauderdale and FXE a project team and approach that include continual value engineering, enhanced quality control processes, the ability to accelerate schedules, reduce costs and minimize risks.



RS&H, Inc.
3125 W. Commercial Boulevard, Suite 130
Fort Lauderdale, FL 33324

PROVIDING THE FOLLOWING SERVICES: Engineering

RS&H has a worldwide reputation as a leading aviation consultant reflects its dedication to designing the best solutions for its clients. With offices located in Broward County for more than 42 years, RS&H has successfully met all challenges regardless of the size, location, or nature of a project, from incorporating the unique character of a community into the design of a terminal, to satisfying the engineering and environmental requirements for a runway improvement, to addressing the future through detailed planning and visioning.

With a tradition that spans 75 years, RS&H has built a reputation as a client-centered facilities and infrastructure consulting firm whose practice structure offers value-added solutions to clients throughout the country. RS&H is organized into five client-focused practices, centered around our Aviation Practice. RS&H offers a deep bench of aviation specialists in all areas of design. In many industry circles, RS&H is considered the “go-to” airfield design firm, and is ranked by ENR magazine as the 8th largest aviation design firm in the United States. With its headquarters in Florida and a majority of its 170-plus associates dedicated to the Aviation Practice, RS&H is an integral part of the airport community in the State of Florida. RS&H has successfully completed several aviation projects for our 27 Florida airport clients and furthermore has completed the same type of project as this one right here in Broward County at FLL.



RS&H's engineering culture provides clients with the confidence to move forward on all types of airport improvement projects. RS&H is a leader in the aviation industry, having participated in the preparation of several industry-leading documents and guidelines, and in leadership positions for numerous aviation industry associations. The K&A Team will provide FXE the benefits of this industry involvement, because RS&H staff will bring the latest industry knowledge and lessons learned to all assignments. For example, the Florida Airport Council recently requested RS&H's **Southeast Airfield Discipline Leader, Mr. Brad Wente**, present his knowledge of the updates to Advisory Circular 150/5300-13A Change 1 to better educate the Florida aviation community. Our industry involvement helps us identify trends in the industry, which we not only disseminate to RS&H staff, but more importantly, bring to the K&A Team.

8 - SUBCONSULTANT

FAA

The successful completion of this project hinges on the selected team's familiarity with applicable Airport, local, state and federal safety and construction rules, requirements, regulations, standards, codes and advisory material. RS&H consists of leaders who are not just familiar with the regulations, but are leaders in the field who actually help define the industry standards on which the regulations are based. The combined knowledge and resources of the team ensures each member of the team will have the access to the latest airport construction, operational, safety, and security rules, standards, and requirements – whether it is the latest changes to TSA or FAA regulations, advisory material or local situations.

A unique feature of the RS&H Team is that not only does the staff make themselves familiar with the documents, but they also participate in the document development process. For example, RS&H staff participated on the TSA's Airport Security Design Guidelines Working Group that updated the FAA's Airport Security Planning, Design and Construction Guidelines document. RS&H authored FAA Advisory Circular 150/5070-6B, Airport Master Plans for the FAA. RS&H also helped review a draft version of FAA Order 1050.1F (Environmental Impacts: Policies and Procedures) and RS&H submitted comments to the FAA. In addition, RS&H was contracted by the US Department of Transportation to prepare a handbook to administer the Small Community Air Service Development Program. It is this commitment to active participation during the development of regulations and standards that gives RS&H more than just a familiarity with the applicable requirements.

**RS&H ASSOCIATES
PARTICIPATED ON
A TASK FORCE TO
REVIEW AND PROVIDE
COMMENTS ON THE
DRAFT FAA ADVISORY
CIRCULAR 150/5300-
13A AIRPORT DESIGN**

As evidence of the team's expertise, the FAA recognized RS&H's efforts for conforming to federal design standards while looking out for the fiscal interests of the sponsor by identifying methods to save more than \$5 million in construction costs for a drainage project at the Richmond International Airport. This adherence to standards and budgetary concerns of our clients is a fundamental element of the RS&H Team philosophy that will pay dividends to King County International Airport.

EXPERIENCE HIGHLIGHTS

List of Representative Projects

- Southwest Florida International Airport Planning and Permitting
- Fort Lauderdale International Airport Stormwater Master Plan and Maintenance
- Tampa International Airport Stormwater Master Plan and Wetlands Permitting
- George Bush Intercontinental Airport Drainage Master Plan Update
- Albany Southwest Georgia Regional Airport Update to Existing Stormwater Pollution Prevention Plan
- Alpena County Regional Airport Drainage Improvements
- Bad Axe Huron County Memorial Airport Wetlands Delineation
- Boise Airport Taxiway B Extension Water Utility Relocation
- Brunswick Golden Isles Airport Airfield Drainage
- Burbank Bob Hope Airport Hydrodynamic Separators
- Daytona Beach International Airport Taxiway N Reconstruction
- Detroit Metropolitan Wayne County Airport Stormwater Pollution Prevention Plan
- Eugene Airport/Mahlon Sweet Field Stormwater Pollution Control Plan
- Eugene Airport/Mahlon Sweet Field Sanitary Sewer Extension
- Fernandina Beach Municipal Airport Updates to Stormwater Pollution Prevention Plan
- Houston George Bush Intercontinental Airport Drainage Master Plan
- Houston Ellington Drainage Master Plan

8 - SUBCONSULTANTS



Tierra South Florida
2765 Vista Parkway, Suite 10
West Palm Beach, FL 33411

PROVIDING THE FOLLOWING SERVICES: Geotechnical Engineering

Tierra South Florida, Inc. (TSF) is a full service consulting geotechnical and construction materials testing engineering firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. TSF's professional team has been working together since 2000 and is committed to providing quality, responsive service establishing a reputation for sound approaches and professional competence in a wide range of technically demanding areas. Their services also include threshold/special inspection and roofing inspection services. TSF is a certified Disadvantaged Business Enterprise (DBE) with the Florida Department of Transportation. TSF is also a certified Minority Business Enterprise (MBE) with the State of Florida's Office of Supplier Diversity. TSF's main office is located in West Palm Beach, Florida with branch offices in Hialeah Gardens and Altamonte Springs, Florida.

Geotechnical Engineering

TSF can provide a complete range of geotechnical engineering services. Their organization helps define the construction and long-term performance risks associated with subsurface conditions. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. TSF's geotechnical services include:

- Laboratory testing and analysis
- Subsurface exploration
- Site preparation recommendations
- Soil reinforcement
- Expert witness testimony
- Peer review
- Pavement evaluations and design
- Deep and shallow foundation analysis/design
- Slope stability analysis
- Corridor studies
- Value engineering
- Unknown Foundation Studies

Resources

TSF is unique in the vast array of resources we provide our clients. Within Florida, we have:

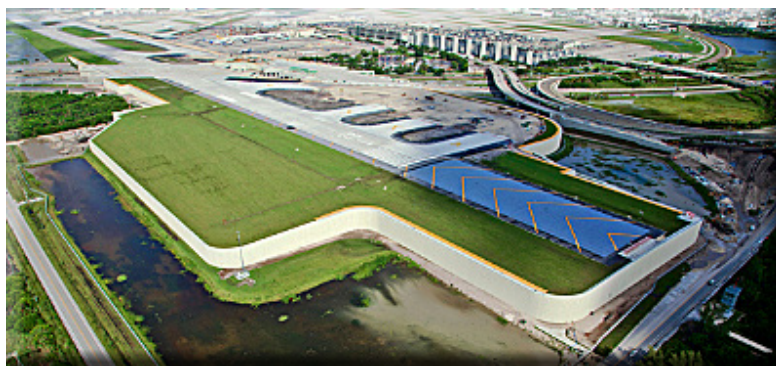
- Main office and laboratory in West Palm Beach
- Branch offices in Miami-Dade and Seminole Counties
- 49 employees, who are professional registered geotechnical, construction inspection and threshold inspectors, drillers, field and laboratory technicians, and support personnel.
- State of Florida Registered Professional Engineers considered experts in all aspects of geotechnical engineering including design of deep and shallow foundations, slope stability, roadway soil survey, and ground improvement technique
- Large, diverse fleet of drill rigs as well as barge equipment.
- In-house soils and concrete laboratory inspected and certified by Construction Materials Engineering Council (CMEC), and approved by Florida Department of Transportation (FDOT).
- Trained, experienced and certified personnel and laboratory equipment capable of:
 - Meeting ASTM requirements for proctor, moisture/density, nuclear density, consolidation and sieve analysis, as well as boring logs, soil property tests and LBR tests.
 - Meeting established American Society of Testing and Material (ASTM) requirements for slump tests, air tests and concrete compressions tests.
 - Performing soil testing services (Density testing, laboratory Proctor, Limerock Bearing Ratio (LBR), California Bearing Ratio (CBR), Sieve Analysis, etc.)
 - Providing field exploration services for Structures and field exploration services for roadway (auger profile borings, permeability tests, pavement cores, pavement condition survey, etc.)
 - Performing laboratory services (Limerock Bearing Ratio, moisture content test, Atterberg limit, grain size distribution, etc.)
 - Performing concrete and asphalt inspection and testing services
 - Performing structural concrete sampling and testing.
- In-house equipment to meet all soils, construction materials sampling and analysis needs.

8 - SUBCONSULTANT

EXPERIENCE HIGHLIGHTS

TSF is an FDOT unlimited prequalified consultant to provide geotechnical services 9.1, 9.2, 9.3, 9.4.1, 9.4.2, 9.5 & 10.3. Their staff currently includes principal engineers and technicians certified through nation and state programs with over 28 years of experience in geotechnical, construction, laboratory and field materials testing and inspection services. Their in-house testing laboratory is AASHTO and ASTM certified by CMEC and validated by the FDOT. Please see below for a list of airports where TSF has provided geotechnical and construction material testing services:

- Fort Lauderdale Executive Airport (FXE), Broward County
- Fort Lauderdale-Hollywood International Airport (FLL), Broward County
- North Perry Airport (HWO), Broward County
- Pompano Beach Airpark (PMP), Broward County
- Witham Field Airport (SUA), Martin County
- North Palm Beach County General Aviation Airport (F45), Palm Beach County
- Florida Keys Marathon Airport, Monroe County
- Palm Beach County Glades Airport (PHK), Palm Beach County
- Valkaria Airport (X59), Brevard County
- Vero Beach Airport, Indian River County
- Big Cypress Airfield, Collier County
- Kendall-Tamiami Executive Airport (TMB), Miami-Dade County
- Palm Beach International Airport (PBI), Palm Beach County
- Lantana Airport (LNA), Palm Beach County
- Naval Air Facility, Monroe County
- St. Lucie County International Airport (FPR), St. Lucie County
- Boca Raton Airport (BCT), Palm Beach County
- Key West International Airport, Monroe County



OWNER: Fort Lauderdale Executive Airport

ROLE: Subconsultant

PROJECT: Taxiway Echo Rehabilitation Project

Tierra South Florida Performed geotechnical exploration, pavement cores and laboratory testing for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors. Field study consisted of Standard Penetration Test (SPT) borings, BoreHole Permeability (BHP) tests, field CBR tests - Kessler Method, and pavement cores. Performed limited laboratory testing on selected soil samples, including grain size analysis, organic content, and Modified proctor Tests. Also performed laboratory CBR tests (ASTM D1883). Provided subsurface information, soil profiles, and test results. The project was completed on time and within budget.

OWNER: Fort Lauderdale Executive Airport

ROLE: Subconsultant

PROJECT: Taxiway Delta & Charlie Rehabilitation Project

Tierra South Florida Performed geotechnical services for the milling and resurfacing of Taxiway Delta & Charlie. Performed Standard Penetration Test (SPT) borings and pavement cores. Provided a geotechnical services report discussing the subsurface conditions found, groundwater conditions at the site, and pavement core test results. The project was completed on time and within budget.

9 - REQUIRED FORMS

A. STATEMENT OF QUALIFICATION CERTIFICATION

STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

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

Company: (Legal Registration) Keith and Associates, Inc.

Address: 301 E. Atlantic Blvd.

City: Pompano Beach State: Florida Zip: 33060

Telephone No. 954-788-3400 FAX No. 954-788-3500 Email: mail@keith-associates.com

Does your firm qualify for MBE or WBE status: No MBE _____ WBE _____

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

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
<u>1</u>	<u>9/21/16</u>	<u>3</u>	<u>10/25/16</u>
<u>2</u>	<u>9/21/16</u>	_____	_____

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. If this section does not apply to your bid, simply mark N/A. **If submitting your response electronically through BIDSYNC you must click the exception link if any variation or exception is taken to the specifications, terms and conditions.**

N/A

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

Submitted by:

Eliot Lazowick
Name (printed)

10/25/16
Date:

Eliot Lazowick
Signature

Executive Vice President
Title



9 - REQUIRED FORMS

B. NON-COLLUSION STATEMENT

NON-COLLUSION STATEMENT

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

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

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

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

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

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

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

NAME

RELATIONSHIPS

None

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



9 - REQUIRED FORMS

C. LOCAL BUSINESS PREFERENCE

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm it's local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

- (1) _____ is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (2) _____ is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt **or** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (3) Keith and Associates, Inc. is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (4) _____ requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (5) _____ requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.
Business Name
- (6) _____ is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.
Business Name

BIDDER'S COMPANY: Keith and Associates, Inc.

AUTHORIZED COMPANY PERSON: Eliot Lazowick Eliot Lazowick 10/25/16
NAME SIGNATURE DATE



9 - REQUIRED FORMS

D. CONTRACT PAYMENT METHOD

CONTRACT PAYMENT METHOD BY P-CARD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed.

In accordance with Article 7, item 7.4.3 of the consultant agreement attached herein, payments for all services will be made utilizing the City's P-Card program (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of the agreement.

Please indicate with which credit card you prefer to be paid:

☒ Master Card

☒ Visa Card

Company Name: Keith and Associates, Inc.

Eliot Lazowick

Name (printed)

Eliot Lazowick

Signature

10/25/16

Date:

Executive Vice-President

Title

9 - REQUIRED FORMS

E. SAMPLE INSURANCE CERTIFICATE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
3/14/2016

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 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: Tina Shannon PHONE (A/C, No, Ext): (954) 943-5050 FAX (A/C, No): (954) 942-6310 E-MAIL ADDRESS: tina@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: Transportation Ins Co</td> <td>20494</td> </tr> <tr> <td>INSURER B: Continental Insurance Co</td> <td>35289</td> </tr> <tr> <td>INSURER C: Continental Casualty Co</td> <td>20443</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: Transportation Ins Co	20494	INSURER B: Continental Insurance Co	35289	INSURER C: Continental Casualty Co	20443	INSURER D: AXIS Insurance Company	37273	INSURER E:		INSURER F:	
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INSURER E:																	
INSURER F:																	

COVERAGES **CERTIFICATE NUMBER:** 2016 Master Liability **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			5084976405	2/19/2016	2/19/2017	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/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			5084976453	2/19/2016	2/19/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$			5084976498	2/19/2016	2/19/2017	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	5084976355	2/19/2016	2/19/2017	<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			MBZ792656/01/2016	3/13/2016	3/13/2017	Each Claim \$2,000,000 Aggregate \$5,000,000

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

CERTIFICATE HOLDER Informational Purposes Only	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Dirk DeJong/TS
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ACORD 25 (2014/01)
INS025 (2014/01)

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