

# Statement of Qualifications for CEI Services for Airport Utilities and Pavement Projects Sol # PNC2123699P1



## Submitted To:

**Broward County**  
Purchasing Division  
115 South Andrews Ave, Rm 212  
Fort Lauderdale, Florida 33301  
Tel: (954) 357-6066



## Submitted By:

**A<sup>2</sup> Group, Inc.**  
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July 20, 2022



July 19, 2022

Broward County Purchasing Division  
115 South Andrews Avenue, Room 212  
Fort Lauderdale, Florida 33301

**Re: CEI Services for Airport Utilities and Pavement Projects  
Solicitation No. PNC2123699P1**

Dear Selection Committee Members:

A<sup>2</sup> Group, Inc. (A<sup>2</sup>) is pleased to submit our Statement of Qualifications in response to Broward County's solicitation for CEI Services for Airport Utilities and Pavement Project (PNC2123699P1). Our team includes Argus Consulting, Inc.; Base Consultants, Inc.; Delta G Consulting Engineers, Inc.; Engenuity Group, Inc.; H2R Corp; the Corradino Group; and Walters Zachria Associates, PLLC. As required in the Solicitation, our financial statement has been submitted in a sealed envelope labeled "Confidential Matter."

We understand that the County is seeking up to three engineering consultants to provide professional construction engineering and inspection (CEI) services to perform Resident Project Representation (RPR), inspections/special inspections, investigations and analysis, evaluations of utility, pavement and structural systems, post construction and warranty inspections, cost estimating and value engineering, Quality Assurance Material Testing (QAMT), geotechnical services, as-built drawing submittal, Construction Management Plan (CMP), construction safety and phasing plan, and any other related tests deemed necessary. The selected consultants will produce associated reports for the Airside/Airfield Projects at Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO).

A<sup>2</sup>, which was founded in 1994, is licensed as an architectural, engineering, landscape architecture, general contracting, and underground utility contracting firm. These licenses set our firm apart and are especially important during pre-construction services. We have been able to identify several issues for other clients that prevented financial and time consequences. As such, we maintain a perspective that extends beyond design to develop an appreciation for the entire process including system maintenance. A<sup>2</sup> is also a certified Disadvantaged Business Enterprise (DBE) firm.

***At A<sup>2</sup>, we pride ourselves in having a strong track record of completing quality projects within budget, ahead of schedule, no client disputes and having a satisfied client. The project quality, our performance and references have been the keys to our success.***

A<sup>2</sup> employs a highly qualified professional team following a structured process that has proven very successful on similar public projects for agencies throughout Florida. Our airport project experience includes the Greater Orlando Aviation Authority (GOAA) Program/Project Management Continuing Services 5-year Contract along with numerous projects under that contract, MIA South Terminal Expansion, the Design/Build of the Repairs to Taxiway Alphas A/3 at the Naval Air Station in Jacksonville, and the United Airlines Cargo Facility. Our CEI Services contracts include SR 836 Interchange Modifications at 87th Avenue for Miami Dade Expressway Authority (MDX), Wekiva Parkway 429-204 Systems Interchange of SR 429 and SR 453 for the Central Florida Expressway Authority (CFX), SR 417/Boggy Creek



Interchange for CFX, Eastbound Auxiliary Lane along SR 836 (adjacent to MIA) from west of NW 57th Avenue to NW 42nd Avenue for MDX, MM63 Public Safety Center and Rest Area in Collier County for FDOT District One, and more. The experience we have gained on these projects enables us provide Broward County with continuing innovation to effectively and efficiently oversee the airport projects. Details about our project experience are included in section 3.

We have assembled a team with extensive resources and staffing, in every required discipline, in order to provide professional, competent, and affordable solutions for this highly important scope of work. Our team has the capabilities and experience that are crucial to these projects including contract administration, project management, documented cost control, scheduling, and claims avoidance experience. We recognize that the relevant experience of our team is only as important as the assigned staff. The most important resource that the A<sup>2</sup> team brings to this project is our people, professionals who are at the forefront in the industry for their competence and commitment. The project organization is simple, direct and effective with clear single source of accountability. The professionals proposed for this project were carefully selected based on their extensive experience.

For the overall management of this project, we have identified Alberto G. Ribas, P.E. as the Senior Project Manager. Peter Nissen, P.E. and Alan Pattison will provide Construction/Design QA/QC. Yesmin Cecilio, P.E. will be our Lead Project Manager. Our Project Managers include Christopher Kieffer and Alex Salazar. Additional information and staff members are included in Section 1 of this proposal.

Responsible Office:

A<sup>2</sup> Group, Inc.

12915 SW 132nd Street, Ste 5

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Tel. (305) 668-8939

Contacts:

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A<sup>2</sup> has the qualifications, experience, and proactive attitude that ensures the successful management of these airport projects. We strive to be customer focused, identifying and resolving clients' needs throughout the design and construction process. In closing, we are confident that our team will be able to maintain the highest industry standards at the most effective cost. On behalf of A<sup>2</sup> and our team, we thank you for the opportunity to present our letter of interest and look forward to building a working relationship with Broward County.

Sincerely,



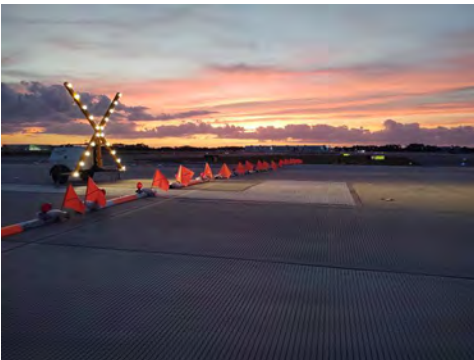
Alberto G. Ribas, P.E., R.L.A., LEED AP  
President

AGRsI





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## Tab 1: Personnel

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# Ability of Professional Personnel

## Introduction to the Team

The A<sup>2</sup> Group, Inc. (A<sup>2</sup>) is an engineering, architecture and construction management organization committed to a client-oriented and structured process in managing projects. We have been providing our clients with proven outstanding services over the past 28 years. We focus on understanding our clients' needs and manage projects effectively to meet and exceed them. We have a history of satisfied clients on similar airport projects throughout Florida and we are committed to providing that same experience to the Broward County Aviation Department (BCAD).

The successful approach to this on-call contract demands a team that is assembled to responsively serve BCAD. Our team is ready and can provide the full range of professional services required for the various scopes as based on what each project needs. Our approach to delivering successful projects for this contract is to begin by providing a dedicated, focused, and responsive project manager to lead the effort supported by a team of carefully chosen discipline and subject matter experts and administrative staff for each individual assignment.

As our airport project experience demonstrates, we have coordinated with FAA on issues relating to funding request and field modification reimbursements, concise and proper documentation, acknowledgment of contract and specification conformance as part of funding requirements with the airport authorities and compliance with TSA security regulations and procedures. A<sup>2</sup> Project Management Team is knowledgeable of FAA Advisory Circulars and Orders as they pertain to airport design and construction standards at Class B, C and D airports with commercial and general aviation. We have the ability and contacts to properly coordinate with all FAA offices and divisions such as the Office of Airports, Office of Air Traffic, Flight Procedures, Flight Standards District Offices and as well as BCAD. Our team will abide by and conform to all requirements.

The breadth of the contract scope reflects the multiplicity of components required to operate an airport safely and effectively. With a contract that provides critical elements at the airport, timely response and measured action will be critical. We have structured our team to serve BCAD's needs as an extension of your staff. Our experience with airport construction allows us to understand how each part

of the airport fits in with the overall mission. Our firm is not only familiar with Airport operations but also with Broward County, and neighboring agencies such as Port Everglades, the Florida Department of Transportation (FDOT), and the Broward Metropolitan Planning Organization (MPO). To provide the depth of expertise needed to complement our firm, we have assembled a team who will expand our capabilities across all the needed disciplines. Our team members include:



**Argus Consulting, Inc.** is a fuels infrastructure engineering firm that specializes in program management, design, construction administration, and asset integrity management of fuel receiving, storage and distribution facilities and systems. For more than 25 years, Argus has supported the nation's busiest airports on hundreds of aviation fueling projects including bulk fuel storage facilities, aircraft hydrant fueling systems, pipeline systems, GSE vehicle fueling stations, and truck load/unloading stations. With a staff of 70 Engineers and fuels specialists, Argus has provided technical services and advised clients throughout the world including America's largest airlines and airport authorities, governmental agencies, Fortune 500 companies, private investors, contractors, and large A/E firms. Argus is headquartered in the Kansas City area and has an office in Miami with multiple other offices around the country.



**Base Consultants, Inc.** is a highly qualified minority and woman-owned, building and transportation structural engineering, construction management, and parking consulting firm with the experience of a large corporation and the intimacy and responsiveness of a small firm. They



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specialize in services for architectural, civil, transportation, environmental, recreational, and educational facilities. Base provided structural design on OIA South Terminal Central Energy Plant, the new promenade structure connecting the parking garage to the landside terminal, the central receiving and distribution center, a new ground transportation facility, and a ground services building.



**DELTA G CONSULTING ENGINEERS, INC.**

**Delta G Consulting Engineers, Inc.** has supplied mechanical, electrical, plumbing and fire protection engineering services and construction documents for more than 24 years. Delta G is located in Fort Lauderdale and has a staff of 23 including 5 Professional Engineers, 2 CIPE's and 9 LEED APs. Delta G has successfully completed more than 6,000 projects including a wide array of airport facility new construction, renovations and additions. Their clients include Fort Lauderdale-Hollywood International Airport, North Perry Airport, Miami International Airport and a wide variety of public, corporate and private clients.



**Engenuity Group, Inc.** is an award-winning firm that has been providing a full range of Civil Engineering services including topographic and hydrographic surveying, GIS mapping/data collection/creation, NPDES reporting, grant applications, permitting, drainage and stormwater analysis, utilities, permitting, construction contract administration, and other services for more than 40 years. Engenuity employs the latest technology on all assignments including state-of-the-art surveying electronics and computer aided design and drafting (CADD). Clients include Fort Lauderdale-Hollywood International Airport, Miami International Airport and Palm Beach International Airport along with many South Florida municipalities and public agencies and corporate and private clients.



**H2R Corporation** is a full-service geotechnical engineering firm that has been performing engineering services on landmark projects for almost 50 years. H2R has an in-house fleet and laboratories, services include geotechnical engineering, foundation testing and inspection, subsurface exploration and drilling, materials testing and inspection, construction engineering and inspection and specialty construction support and verification. H2R's experience includes work with the Fort Lauderdale-Hollywood International Airport, Miami International Airport and Tampa International Airport, along with many other state agencies, municipalities and other public, corporate and private clients.



**The Corradino Group**, lead by Alan Pattison, provides a broad range of aviation consulting services from master planning through implementation. This includes program management, airspace design, civil engineering design, terminal and ramp planning, and relocation assistance in coordination with noise mitigation implementation. Construction Engineering and Inspection (CEI) management is one of Corradino's most active divisions. Corradino provided CEI services for the \$400 million Mobility 2000 contract which widened 20 miles of I-95 from six lanes to ten in Palm Beach County, Florida. Corradino was the Owner's Representative for construction for the I-595 Express Project, which is the state of Florida's first Public/Private Partnership project, a \$1.3 billion investment. The scale and complexity of these projects exemplify the experience and skill level of their team, and the established trust. This is also reflected in their solid working relationship with project contractors, subcontractors, and their daily interaction with the public, residents, business owners, and government officials.

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**Walters Zackria Associates, PLLC** brings forth over 1,000 South Florida projects and 39 years of local experience. The firm is located downtown Ft. Lauderdale. WZA specializes in municipal public safety, public works and parks and recreational building projects. They pride their firm for fresh and exciting solutions to the user's needs. They are committed to the "Triangle of success"—creative solutions that conform to design intent, budget and schedule.

## Proposed Key Staff

A<sup>2</sup> recognizes the significance of this CEI Consultant Services contract for BCAD providing design, permitting, and construction administration/inspection for Fort Lauderdale/Hollywood International Airport (FLL) and for North Perry Airport (HWO) projects. The firm will give this project the highest priority and is committing Alberto G. "Al" Ribas, P.E. as the Senior Project Manager (SPM) and Yesmin Cecilio, P.E. as the (PM) should A<sup>2</sup> be selected.



**Alberto G. Ribas, P.E.** - Mr. Ribas has devoted his working career to design and construction in the civil engineering field. His extensive design and hands-on construction

experience in multi-faceted projects such as building, bridge, civil, sanitary, storm and water construction has given him the necessary knowledge to become a recognized consultant in Civil Engineering including water and sanitary systems, CPM scheduling, estimating, document/cost control, claims and construction management. His airport experience includes the over 50 projects at Orlando International Airport and Orlando Executive Airport, South Terminal Expansion at Miami International Airport, the Design/Build of Taxiway Alpha 3 at the Naval Air Station in Jacksonville, construction of the United Airlines Cargo Facility at the Miami International Airport (MIA), including construction of two fire stations, the Northside and the Midfield at MIA, and a United Airlines Cargo Facility. Mr. Ribas also has experience on several projects that required extensive coordination with the Orlando International Airport like the recent SR 417/Boggy Creek Interchange, which provided connection to the South Access Road and the SR-528/SR-436 Interchange Flyover and Cargo Road Improvements.



**Yesmin Cecilio, P.E.** - Ms. Cecilio has been working in the construction and engineering industry since 1998. She has a Bachelor of Science in Electrical Engineering and is fluent in both English and Spanish. She has experience with program and project management, planning, estimating, document and cost control, as well as aiding engineering consultants in a similar capacity on the procurement phase. She has substantial skills creating and maintaining detailed project



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schedules in P6. She has extensive experience in reviewing, analyzing, and reporting of Contractor's claims. She has also performed field inspections and reviewed construction inspection reports on various projects. Ms. Cecilio has been part of A<sup>2</sup>'s CEI Team since 2006 and has successfully completed projects for FDOT and Expressway Authority projects including Design/Build projects. She has broad civil experience in geotechnical/material testing, heavy earthwork, drainage systems, roadway, and street beautification projects. Her computer skills include Microsoft Office, MatLab, Pspice, AutoCAD, MS Project, Expedition, Primavera Project Planner (P6) and Microsoft SharePoint.

Ms. Cecilio's airport experience includes a 5-year Program and Project Management Contract with the Greater Orlando Aviation Authority (GOAA), the Palm Beach International Airport (PBI) Public Address System Replacement, Design/Build of the Taxiway Alpha 3 project at the Naval Air Station in Jacksonville, and two extremely large projects at the Miami International Airport (MIA). MIA's North Terminal Development Program involved Concourses A, B, C, and D being merged into a singular linear concourse. Before that, she worked on the Landside Automated People Mover (APM) System that was implemented at MIA. This connector provides a convenient and reliable means for transportation passengers between the terminals and a remote ground transportation facility known as the Miami Intermodal Center (MIC).

Mr. Ribas and Ms. Cecilio will dedicate up to 100% of his time to the Broward County Aviation Department on any task assigned to the firm. They have been working together since 2006 and have provided leadership for a host of projects on both the construction and design management side at multiple airports (Naval Air Station Jacksonville (NIP), Miami International Airport (MIA), Orlando International Airport (MCO), Orlando Executive (ORL), Palm Beach International Airport (PBI) and San Juan International Airport (SJU). Mr. Ribas will ensure that the Team will have the full support of our firm including the key staff shown within the Organizational Chart for this project.

A<sup>2</sup> has been providing similar CEI services to the Greater Orlando Aviation Authority at OIA and ORL since 2017. In August, Mr. Ribas and Ms. Cecilio will be concluding their services at GOAA providing them the ability to work on this assignment full time or as needed. With Mr. Ribas as the Senior Project Manager and Ms. Cecilio as the Project

Manager for this contract, Broward County will benefit from their teaming experience and expertise in engineering design, construction and inspection. Mr. Ribas will ensure the support of the firm to bring all resources needed to support BCAD in meeting their project goals and deadlines.



**Christopher Kieffer** - Mr. Chris Kieffer has been working in this industry since 2007. He has a Bachelor of Science in Building Construction from University of Florida. He has experience with project management, planning, estimating, document and cost control, as well as aiding engineering consultants in a similar capacity on the procurement phase. He has extensive skills creating and maintaining detailed project schedules. Over the last five years, he has been the Program Manager for A<sup>2</sup> OAR contract at GOAA where he has overseen the administration and inspection of over 50 projects at Orlando International Airport and Orland Executive Airport.

**Nilo Regojo, AIA** - Mr. Regojo is a licensed architect who has worked in the industry since 1979. On projects that require architectural services, he will serve as the architectural team leader. Working closely with Mr. Ribas, he will assemble and oversee the appropriate consultant team. Nilo has run an independent practice and worked for various architectural and construction firms in Miami and Philadelphia as well as a national developer of historic residential properties. He is well versed in managing complex projects of all sizes with varied stakeholders. His unique expertise leads to projects that feature innovative design tempered with real world experience with an emphasis on reuse and refurbishment of existing structures.

**Alan Pattison** - Mr. Pattison is leading Corradino's efforts as program manager for the design and construction of a \$1.5

# Ability of Professional Personnel

billion airport expansion program at Fort Lauderdale/Hollywood International Airport. Major project components include a new south runway, a new 14-gate international terminal, expanded Federal Inspection Facilities, and multiple enabling projects. In addition to the Fort Lauderdale program management, Mr. Pattison is responsible for strategic business and growth development for Corradino's aviation and program management practices. Mr. Pattison's professional history includes over fifteen years of experience for the Greater Orlando Aviation Authority.

**Saila Alath, P.E.** - Ms. Alath is our proposed Structural Engineer and Special Inspector. She has over twenty-four years of experience in structural engineering covering various phases of project development, structural analysis, design, design coordination, project management and construction administration. She is a LEED Accredited Professional familiar with the green building design and rating requirements. Her resume in this section includes over 20 airport projects.

## Qualifications of the Project Manager

Our Senior Project Manager, Mr. Ribas is a Professional Engineer, Register Landscape Architect, Certified General Contractor, Underground and Excavation Contractor who is also a LEED Accredited Professional with forty years of experience in design, construction and inspection services. Mr. Ribas is also extremely knowledgeable on FAA regulations and airport procedures as a helicopter and commercial, multi-engine instrument rated airplane pilot. Since 1986, he has been working on a variety of airport projects which have included Landside Operations (Concourse and Terminals Expansions, FIS Terminal, Baggage Handling Systems, Public Address Systems Replacement, Access Loop Roads and Landscape) and Airside Operations (Airfield Runways, Dual Cross-Field Taxiway, Taxiway Rehabilitation, Airside Apron Rehabilitation, ARFF and Administration Building, Hangars (Concrete, Steel and Cargo Facility RUBB buildings) and Electrical Vaults.

Mr. Ribas will be available full-time commencing in September of this year. He will allocate his time and compose the supporting project Team, including the subconsultants, based on the nature, complexity and schedule of the assignments. Our CEI Team is experienced in managing concurrent projects on active Class B, C and D

airports and we understand the FAA deadlines requirements and typical schedule of funded grant projects.

Over the past 28 years, A<sup>2</sup> has only been committed to meeting clients' needs. We will ensure all your staff connected to the project have the contact information for our team. We will respond to the needs of the project regardless of the time or day. BCAD has the same level of commitment from our executive team. Project needs change and we have the flexibility to change with them by adding staff and bringing outside resources. Additional assignments will be accepted and completed with the same expertise and enthusiasm we bring to all our work, regardless of project size.

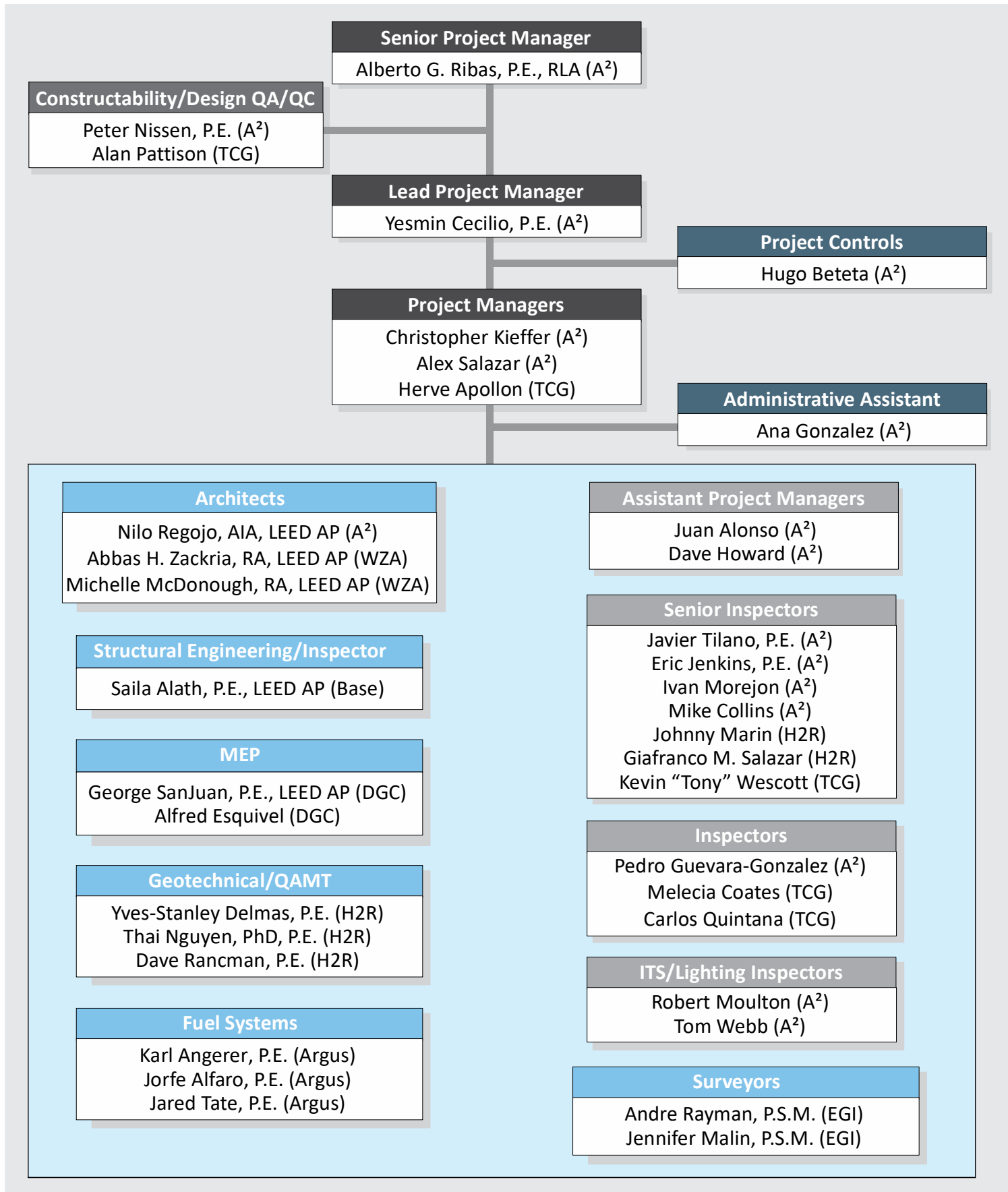
Every airport assignment is important no matter the size. We know it is vital to understand how the whole organization functions to effectively manage even smaller projects. Many times, small items can prove critical to safe, effective operations. After so many years, we have learned that 'short-fuse' assignments are part of the business. There will be aspects of the project that must be resolved quickly to keep the Contractor on schedule. Our Team will execute whatever it takes to deliver a quality product and result within the deadline.

The success of this contract requires a collaborative, professional, reasonable, and proactive management strategy. A strategy that must easily and quickly adapt to the needs of individual assignments. Al Ribas, PE has served in several roles through the years including as the Engineer of Record, Senior Project Engineer or Senior Project Manager, on agency major programs involving large and small concurrent projects and understand the

A<sup>2</sup> understands the importance of having the right team for the project. Our Team Leaders will provide the strategic vision and administrative oversight to execute the CEI services within the schedule BCAD has established. Our Leaders are supported by great resources in each of disciplines identified in the solicitation in order to keep the projects on schedule.



# Organizational Chart



# Qualifications of Firms Chart

Firm Name	Licenses							CAD/BIM	LEED	Broward CBE	DBE
	Architectural	MEP Engineering	Structural Engineering	Civil Engineering	Geotechnical Engineering	Fuel Systems Engineering	Surveying				
A <sup>2</sup> Group, Inc.	•		•	•				•	•		•
Argus Consulting, Inc.						•		•			
Base Consultants, Inc.			•								•
Delta G Consulting Engineers, Inc.		•						•	•	•	•
Engenuity Group, Inc.				•			•	•		•	•
H2R Corp					•			•		•	
The Corradino Group				•				•	•		
Walters Zachria Associates, PLLC	•							•	•		



# Alberto G. Ribas, P.E., RLA, LEED AP

Since 1982, Mr. Alberto G. Ribas has devoted his working career to the engineering and construction industry. As a Project Manager, he directs his team to successfully plan, manage, and complete construction projects. He controls engineering and construction management for A<sup>2</sup> including estimating, document and cost control, manpower production analysis, claims analysis and avoidance, and project management. By utilizing various methods, he determines the most cost-effective plan and schedule. He regularly meets with owners, subcontractors, the architect, and other design professionals to monitor and coordinate all phases of the construction project.

## Airport Project Experience:

- Continuing Program and Project Management Services Contract (OAR Prime Entity) for the Greater Orlando Aviation Authority (GOAA).** Services include all services necessary for the management of the design and construction of both individual projects and programs. This is a five year contract that is based on Task Work Orders. Contract: \$7 million.
- Design-Build services for the repairs to Taxiway Alphas A/3 at the Naval Air Station located in Jacksonville, FL.** The work entailed geotechnical exploration, design and construction to repair Taxiway A/3 pavement (3,000 SY) and drainage in accordance with Unified Facilities Criteria, Airfield and Heliport Planning and Design, and Pavement Design for Airfields and Surface Drainage Facilities for Airfields and Heliports. A<sup>2</sup>'s design was based on new airfield loadings anticipated for the NAS JAX mission (737 MMA, C17, C5, C40, etc) over the next ten years. This project was conducted in an active secure airport facility, on Air Side, which required continual coordination with airfield operation to avoid disruption to their daily work schedule. Work was performed during both daytime and nighttime. This project was completed two weeks ahead of schedule. Construction: \$866,596.
- South Terminal Program was a major expansion to the former terminal configuration and consisted of eight major projects, including the MIA South Terminal Expansion,** MIA Terminal South/Terminal Improvements, Concourse J, H-J Utility and Pavement Project, Concourse H Modifications for International Gates, Concourse H International Head house Demolition and Construction, and MIA H Terminal Improvements and H-J Sewer and Related Work. A<sup>2</sup> provided construction management services including scheduling, cost management, quantity surveying and estimating. Construction: \$658.7 million.
- United Airlines Cargo building facility at Miami International Airport (MIA).** The building was designed to house approximately 95,000 square feet of cargo area and approximately 12,500 square feet of cargo operations offices including conference and training facilities. Construction: \$24.2 million.
- Mid-Field Fire and Rescue Facility at Miami International Airport (MIA).**



Experience	With A <sup>2</sup>
39 Years	28 Years

## Project Title:

Senior Project Manager

## Education:

- Mechanical Engineering from FIU in Miami, Florida

## Licenses:

- Licensed Professional Civil Engineer, Florida, #PE-0051488
- Registered Landscape Architect, Florida, #LA6666759
- Certified General Contractor, Florida, #CGC 045136
- Certified Underground Utility & Excavation Contractor, Florida, #CUC 056689

## Training and Certifications:

- CTQP TIN R12000761
- CTQP Final Estimates Lev 1 & 2
- CTQP Qualified Post-Tensioning Technician Level 1
- CTQP QC Manager
- FDOT Advanced MOT
- IMSA Traffic Signal Tech Level 1
- FDOT Concrete Field Inspection
- Nuclear Safety Certification
- Radiation Safety Officer
- Construction Quality Certification USACE
- RMS/QCS Training USACE
- Ten Hour OSHA Training Course
- LEED Professional Accreditation SACE Construction Quality Management for Contractors

This was a Design/Build project for the fire station located in the midfield section of the airport. The facility consisted of a single story baggage search facility of approximately 4,800 sq ft and a single story fire fighting facility of approximately 27,720 sq ft. The fire rescue building provides space for fire apparatus alert, storage, personnel amenities, equipment and foam storage, preparation areas and command functions. The work involved demolition of various structures and the construction of new pavement for aircraft parking, ramps and roadways to facilitate apparatus movements from alert storage to designated airfield access routes. Construction: \$7.3 million.

- **Northside Fire Station at Miami International Airport (MIA).** The project was delivered as a Design-Build project for the new 24,490 square-foot fire station. The facility has four double bays, apparatus area, dormitories, kitchen, dining and recreational areas, locker rooms, simulator room and two stories of offices. The fire station serves both the Air Side and non-airside portions of the airport along the new East/West runway. Construction: \$3.9 million.

## Recent CEI Project Experience:

- **CEI for SR 836 Interchange Modifications at 87th Ave for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps and improvements to the NW 87th Avenue and NW 12th Street. The project included the construction of six new FIB bridges and a new twin steel trapezoidal box girder flyover ramp that provides direct connection from WB NW 12th Street to WB SR 836. There was also Infrastructure for the permanent electronic toll facility located on the EB ramp from NW 87th Ave to SR 826 and SR 836. This was an A+B Project. Construction: \$70 million.
- **CEI for Wekiva Parkway 429-204 Systems Interchange of SR 429 & SR 453 for the Central Florida Expressway Authority (CFX).** The construction of the new 2.63-mile segment of the limited access roadway in Apopka, FL. The project extended through 175-acres of greenfield, with nearly 150-acres of clearing and grubbing, 51,000-SF of house/associated structures demolition and 30,000-LF of existing fence removal. The project included eight bridges composed 48-72" haunched concrete U-girders and 18" concrete piling. It also included roadway construction, excavation, import embankment, a 6-month surcharge area, sinkhole grouting, asphalt, drainage piping and structures. The longest of the bridges was a 2,550 LF flyover ramp composed of curved post tensioned concrete haunched U-girders. The work also included pond construction, FON construction, CCTV, highway lighting, sign structures, signage, pavement markings, sod and seed and mulch. Construction: \$80 million.

### Certification

- USACE RMS/QCS Training
- CTQP Final Estimates Lev 1 & 2
- CTQP Qualified Post-Tensioning Technician Level 1
- CTQP QC Manager
- FDOT Advanced MOT
- IMSA Traffic Signal Technician Level 1





# Yesmin Cecilio, P.E.

Ms. Yesmin Cecilio, P.E. has been working in this industry for over 21 years. She has a Bachelor of Science in Electrical Engineering and is fluent in both English and Spanish. She has experience with project management, planning, estimating, document and cost control, as well as aiding engineering consultants in a similar capacity on the procurement phase. She has extensive skills creating and maintaining detailed project schedules. She has also performed field inspections and reviewed construction inspection reports on various projects. She performs multiple tasks throughout the construction phase such as reviewing RFIs, change orders, shop drawing, schedules, construction contract packages, permits, materials, progress payments, punch lists, and assists in drafting responses to contractors and consultants. She has broad civil experience in geotechnical/material testing, heavy earthwork, drainage systems, roadway, and street beautification projects. Her vast computer skills include Microsoft Office, MatLab, Pspice, AutoCAD, MS Project, Expedition, Prolog, and Primavera P6.



## Airport Project Experience:

- **Continuing Program and Project Management Services Contract (OAR Prime Entity) for the Greater Orlando Aviation Authority (GOAA).** Services include all services necessary for the management of the design and construction of both individual projects and programs. This is a five-year contract that is based on Task Work Orders. Contract: \$7 million.
- **BP-495 East Airfield Taxiways Rehabilitation and Related Work Phase 1 (Taxiways E & F) at Orlando International Airport (OIA) for GOAA.** The project consists of improvements to extend the useful life of the airfield pavements; enhance the pavement geometry; and maintain the safety of aircraft operations at MCO. Specific work includes rehabilitation of existing Taxiways E and F between RWY 17R/35L and TWY N to provide taxiway geometric improvements to meet the current Airport Design Standards as described in the FAA Design AC 150/5300-13A, Change 1 for ADG V. Work includes milling and resurfacing the full strength asphalt pavement along Taxiways E, F, and E6; isolated PCC Slab Replacement; resealing of the PCC joints; drainage modification; construction of new airfield edge lighting, signage, and markings along the constructed areas; and implementation of updates to the and electrical vault as needed for the project. Construction \$6.8 million.
- **Palm Beach International Airport (PBIA) Public Address System Replacement** The scope of this project includes replacement of the Public Address System with new hardware, software, amplifiers, speakers, paging microphone stations noise sensors and associated cabling; demolition of the existing Public Address system includes, deprogramming and carefully removing old system components and devices. Construction: \$5 million.
- **MIA's North Terminal Development Program.** Concourses A, B, C, and D, which primarily house American's flights, were being merged into a single linear concourse. The one-mile-long area features new retail and food concessions, a new VIP lounge, and other passenger amenities. Construction: \$3.1 billion.

Experience	With A <sup>2</sup>
24 Years	16 Years

## Project Title:

Lead Project Manager

## Education:

Bachelor of Science in  
Electrical Engineering from  
FIU

## Licenses:

- Professional Engineer, Florida  
#84319

## Training & Certifications:

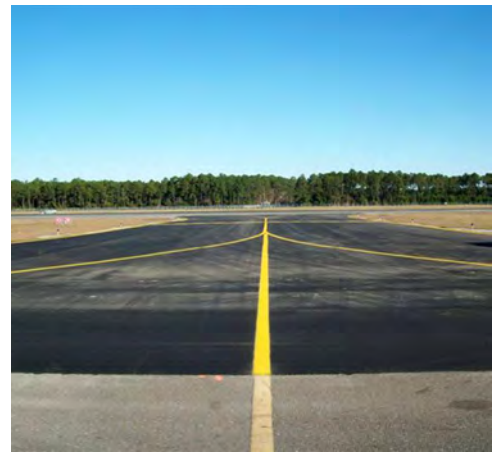
- CTQP Final Estimates Level 1 & 2
- CTQP QC Manager
- Advanced MOT
- Nuclear Safety Certification
- IMSA Fiber Optics Tech
- IMSA Traffic Signal Inspector
- IMSA Traffic Signal Technician Level 1
- PTI Level 1 Multistrand & Grouted PT Installation
- Construction Quality Management for Contractors from USACE

# Yesmin Cecilio, P.E.

- **MIA Landside Automated People Mover (APM) System.** The MIC/MIA Connector is an elevated Landside APM system that was implemented at MIA by MDAD. The connector provides a convenient and reliable means for transporting passengers between MIA's dispersed passenger terminals and a remote ground transportation facility known as the Miami Intermodal Center (MIC). Construction: \$270 million.
- **NAVFAC Design/Build Repair of Taxiway Alpha A/3.** The contract included design-build services for the repairs to Taxiway Alphas A/3 at the Naval Air Station located at Jacksonville, FL. The work entailed geotechnical exploration, design and construction to repair Taxiway A/3 pavement (3,000 SY) and drainage in accordance with Unified Facilities Criteria, Airfield and Heliport Planning and Design, and Pavement Design for Airfields and Surface Drainage Facilities for Airfields and Heliports. The design was based on new airfield loadings anticipated for the NAS JAX mission (737 MMA, C17, C5, C40, etc.) over the next ten years. This project was completed two weeks ahead of schedule. Construction: \$866,596.

## Additional Project Experience:

- **Civil Infrastructure Modifications for Toll Zones on SR 874, SR 878, and SR 924 for Miami Dade Expressway Authority (MDX).** Work includes the installation of new conduits, pull boxes, junction boxes, ITS cabinet, load centers, new lighting for toll plazas, milling and resurfacing. Contract: \$2,320,304.
- **CEI Services for the Design/Build SR 836 Operational, Capacity and Interchange Improvements for Miami Dade Expressway Authority (MDX).** The scope included retrofitting the existing facility with general improvements in line with the State Environmental Impact Report (SEIR). The project also involved improvements from west of NW 57th Avenue to NW 17th Avenue including construction/reconstruction of retaining walls and gravity walls, existing drainage system, and detention/retention areas, relocation of the existing MDX Fiber optic line and ITS components, replacement/relocation of ORT Gantries, replacement of overhead DMS sign structure, replacement of roadway lighting system, installation of new cantilever and overhead sign structures, and roadway enhancements to improve safety and reduce congestion. Construction: \$149,575,971.
- **FDOT Design/Build I-75 (Alley) MM 63 Rest Area South and the Collier County Public Safety Facility CEI Services for FDOT District One.** The scope of this project included placing a larger Rest Area facility at MM63 on I- 75 as well as a Public Safety Center, Two Recreational Access areas into the Big Cypress National Preserve and upgrading existing Water and Wastewater Treatment Plants. This project also brought with it coordination between the FDOT, Collier County and the National Park Service. Construction: \$6.7 million.
- **CEI Services for SR 112 Infrastructure Modifications for Open Road Tolling & Misc. Improvements for MDX.** This project included the infrastructure necessary to convert SR 112 between NW 21st St and NW 12th Ave to an Open Road Tolling (ORT) facility. Construction: \$15.6 million.



# Christopher Kieffer

Mr. Christopher Kieffer has been gaining experience in the construction industry since 2007. He has a Bachelor of Science in Building Construction from the University of Florida. His roles have involved being responsible for the overall project success from startup to closeout, which includes managing budgets, developing and managing project schedules, ensuring that safety is embraced, guaranteeing the quality of the work, communicating with all of the stake holders, and managing subcontractors. He is proficient in Primavera P6, Citrix management software, Excel, Word, PowerPoint, Outlook, Adobe, and On Screen Takeoff.



## Relevant Project Experience:

- Continuing Program and Project Management Services Contract (OAR Prime Entity) for the Greater Orlando Aviation Authority (GOAA).** Services include all services necessary for the management of the design and construction of both individual projects and programs. This work requires careful coordination with many different agencies and departments including the FAA, ARFF, Airfield Operations, Landside Operations, Ground Transportation, Orlando Utilities Commission, City of Orlando, GOAA Telecom, and Security.
- BP-043 ORL Runway Incursion Mitigation (RIM) and Related Improv/TXWY A Rehabilitation for GOAA.** This project is to enhance airfield safety for aircraft operations at Orlando Executive Airport (ORL). Specific work includes the modifications to existing taxiways' geometry for implementing Runway Incursion Mitigation, and Hot Spots Mitigation. Construction work includes taxiway paving, lighting, markings, signage and related work. Work inside the AOA required coordination with Airfield Operations, with regard to publishing and removing NOTAMs. Construction: \$4.2 million.
- V-867 Centerfield ARFF Administration Building at the Orlando International Airport (OIA) for GOAA.** The scope included the construction of a 4,000 square foot administration building adjacent to the active ARFF station. Construction: \$2.5 million.
- BP-S175 South Terminal C Quick Turn-Around Facilities at the OIA for GOAA.** Work includes construction of a new Rent-A-Car Quick Turnaround Facilities, for South Terminal C, to include lift stations, underground fuel piping, multiple utility crossings of 22" gas main, storm drainage, sanitary sewer, concrete and asphalt pavements, five shell buildings, and associated car wash equipment. Construction: \$30.6 million.
- BP-S172 South Employee Parking Lot at OIA for GOAA.** The scope includes construction of a 1,500 space employee parking lot, with pre-engineered canopy structures, guard booth with access control measures, associated drainage lighting, and telecom infrastructure, and related improvements within close proximity to the South APM/ITF and South Terminal C facilities. The project area is 18 acres, with 14 acres being paved surface. The overall contract duration is 280 calendar days to Substantial Completion. Construction: \$5.6 million.

Experience	With A <sup>2</sup>
15 Years	5 Years

## Project Title:

Project Manager

## Education:

- Bachelors of Science in Building Construction from the University of Florida in Gainesville, FL

## Licenses:

- Professional Engineer in Florida, #63948

## Training and Certifications:

- CTQP TIN# K16011383
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP QC Manager
- FDOT Advanced MOT
- FDEP Stormwater Erosion and Sediment Control Inspector
- OSHA 30 Hour-Certified
- CPR and First Aid Training



# Christopher Kieffer

- BP-S174 Heintzelman Rent-A-Car Storage Lot #1 at OIA for GOAA.** Construct a new Rent-A-Car vehicle Storage Facility, located along the southern portion of Heintzelman Boulevard. Work included installation of water distribution, storm drainage, site lighting, embankment, asphalt paving, concrete paving, guardrail, fence, pavement markings and signage. The project area was 92 acres, with 55 acres being paved surface (approximately 30,000 Tons). Construction: \$19.6 million.
- H-318 Airside 1 and 3 Slab Replacement for OIA at GOAA.** The scope included full-depth replacement of 56 concrete slabs on Airsides 1 & 3. Concrete slabs are 16" concrete and 6" of Econocrete. Work was inside the AOA and required close coordination with Airfield Operations, Airline Operations, Maintenance, and Security with regard to Airline schedules, gate closures, aircraft design group restrictions, special aircraft pushback procedure, and accessing the AOA through secure checkpoints. Construction: \$1.2 million
- BP-473 Parking Garage A Fire Alarm Upgrades at OIA for GOAA.** Work included replacement of the existing fire alarm system, including devices, wiring, and conduit within Garage A, while the garage remained open to the public. All existing surface mounted conduit was removed and all existing conduit within concrete was sealed and abandoned. The new conduit system required new penetrations through existing post-tensioned slabs in the garage, where alternative routing measures could not be afforded. Construction: \$ 872,690.
- BP-478 Airside 1 & 3 Apron Rehabilitation at OIA for GOAA.** The scope included a full-depth replacement of 80 damaged concrete slabs on Airsides 1 & 3. Concrete slabs are 16" concrete and 6" of Econocrete. Construction: \$1.2 million.
- H-299 AOA Security Fence Upgrade at OIA for GOAA.** This included the upgrade 10,000 linear feet of secure area chain link fence and gates, to comply with current standards. Close coordination was required Security and Maintenance to ensure proper sequencing of removal of old fence and installation of new fence, to ensure a secure perimeter was maintained throughout construction. Construction: \$500,000.
- BP-469 Loop Road Resurfacing at OIA for GOAA.** BP-469 Loop Road Resurfacing and Related Work consists of milling and resurfacing of all lanes of existing asphalt pavement along the airport loop road, all enplane/deplane to terminals, all ramps to rental car facilities, all ramps to parking and commercial lanes, to include maintenance of traffic, pavement markings, and improvements to the roadway lighting. Scope also included reconfiguration of existing AOA emergency access Gate E-30, through a phased sequence of temporary AOA fence and utility outages. Construction: \$7.1 million.
- The Lucian Condominium Alys Beach, Florida.** This is a 27,000 sq. ft., 4-story structure that is composed of auger cast piles, solid-filled CMU, CIP slabs, slabs on deck, CIP columns and beams, and precast hollow-core panels. Built in accordance with the "Fortified for Safer Living" standard.



# Alejandro J. Salazar

Mr. Alejandro (Alex) J. Salazar has been working in the Engineering and Construction industry since 1986. He has a Bachelor of Science in Civil Engineering and is fluent in both English and Spanish. He has had progressively responsible positions relating to the construction of highways, bridges, vertical construction, petroleum refineries, and oil terminals.

## Relevant Project Experience:

- **CEI Services for Rosa Parks Intermodal Facility Project for Lee County in Fort Myers, Florida.** The Rosa Parks Intermodal Facility, which encompasses approximately 1.8 acres, is the main bus transfer and intermodal bus station in the area. The focus of this project is to convert the existing downtown intermodal center into a Strategic Intermodal System (SIS) facility and will include improving circulation to alleviate congestion, upgrading security for transit operations, expanding connections for bicycles and pedestrians, and increasing ADA mobility. This project is funded by the FDOT.
- **Sun-N-Fun Water Park Restoration for Collier County.** Updates are being implemented for the wading pool, family pool, slide tower, and main pump house. The entire facility is being brought up to the current Florida Building Code (FBC) and made compliant with the American Disability Act (ADA) for accessibility. Construction: \$1.9 million.
- **CEI Services for SR 836 Interchange Modifications at 87th Avenue for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange, which is 3.04 miles, to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps and improvements to the NW 87th Avenue and NW 12th Street. The project included the construction of six new FIB bridges and a new twin steel trapezoidal box girder flyover ramp that provides direct connection from WB NW 12th Street to WB SR 836. In addition, the scope involved the construction of 200,400 noise barriers and MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was 52,032 tons of asphalt. There was also infrastructure for the permanent electronic toll facility located on the EB ramp from NW 87th Ave to SR 826 and SR 836. This was an A+B Project. Construction: \$66 million.
- **CEI Services for Modifications for Open Road Tolling (ORT) & Misc. Improvements on SR 112 for MDX.** This project included the infrastructure necessary to convert SR 112 between NW 21st Street and NW 12th Avenue to an Open Road Tolling (ORT) facility. There was 48,517 tons of asphalt. Construction: \$15.6 million.
- **CEI Services for Sunrail CFCRT Phase 2 South Culvert for the FDOT.** The project consisted of the removal of two existing railroad timber trestle bridges and replacing them with pipes and box culverts. This is located at the Central Florida Rail Corridor (CFRC) railroad bridges milepost A810.8 and A810.9 adjacent to Old Tampa Highway, south of Kissimmee in Osceola



Experience	With A <sup>2</sup>
36 Years	8 Years

## Project Title:

Project Manager

## Education:

- Bachelors of Science in Civil Engineering from the University of Oriente in Puerto La Cruz, Venezuela

## License:

- Venezuela PE License #55,115

## Certifications:

- CTQP TIN #S42601062
- CTQP Final Estimates Level 1 and 2
- CTQP QC Manager
- FDOT Advanced MOT
- Troxler Nuclear Gauge Safety Training
- Hazmat Certification
- IMSA Traffic Signal Technician Level 1
- IMSA Traffic Signal Inspector
- PTI Level 1 Multistrand & Grouted PT Installation
- Critical Structures Construction Issues
- CSX/FEC RWT



County.

- **CEI Services for SR 429 and SR 414 Interchange for Central Florida Expressway Authority (CFX).** This project was for the extension of SR 429 from south of the existing CR 437A interchange north to Boy Scout Road. It also included the new limited access roadway SR 414 from realigned SR 429 east to west of Apopka Vineland Road. The project also covered the new system interchange ramps at SR 429 and SR 414 extension and a new interchange with SR 429 and CR 437A. Construction: \$47.7 million.
- **Systemwide CEI Services for CFX.** This project included system-wide milling and resurfacing, SR 417/Boggy Creek Interchange, as well as miscellaneous system-wide striping. Construction: \$8.3 million.
- **Misc. CEI Services on SR 408, SR 417, SR 528, and SR 429 for CFX.** involved asphalt milling and resurfacing, roadway widening, drainage improvements, lighting installations, new closed-circuit intelligent transportation system (ITS) components, and toll plaza expansions. There was also a project for fiber optic lines between SR 408 and SR 429 via Florida's Turnpike. Other assignments included micro-projects for concrete ditch pavement and drainage structure repairs.
- **SR 400/I-4 Auxiliary Lanes CEI Group 69 for FDOT.** This contract consisted of three design/build projects including the addition of an auxiliary lane on SR 400 from SR 536 to SR 528, and one between the SR 528 and SR 482, as well as one between John Young Parkway and SR 434. The scope also included widening of 13 bridges, the addition of auxiliary lanes along 15 miles of interstate highway, asphalt and concrete pavement, drainage improvements, ITS installation, new signage, drilled shafts, and landscaping. Construction: \$76 million.
- **Tuskawilla Road Widening in Winter Springs, Florida.** The contract included the widening of the existing 2.6-mile roadway from SR 434 to East Lake Drive from two to four lanes. Work also included extending storm drainage, construction a buffer wall on the west side of the roadway, and installing mast-arm style traffic signals, and landscaping. Construction: \$12 million.
- **SR 436 New Construction and Widening in Seminole County for FDOT, Group 56.** The project involved 2.3 miles of new construction and widening of an existing four lane rural roadway to a six-lane urban section with a raised median. The reconstruction of SR 436 from Pearl Lake Causeway to Douglas Avenue took place in a densely urbanized section. This project also included two joint project agreements with the City of Altamonte Springs for utility reconstruction within the right-of-way, coordination of multiple utility relocations, box culvert extensions into Little Wekiva River, public information services, roadway lighting, and signalization. Construction: \$17 million.
- Puerto La Cruz Refinery in Venezuela. This is one of the largest oil refineries in Venezuela.
- Guaraguao Terminal at the Port of Puerto La Cruz in Venezuela





# THE CORRADINO GROUP

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## YEARS OF EXPERIENCE

18

## EDUCATION

BS (Electrical Engineering), Florida State University, Tallahassee, FL,

## ASSOCIATIONS

- Institute of Electrical and Electronics Engineers (IEEE)
- Member of the National Society of Black Engineers (NSBE)

## CERTIFICATIONS

- FEC Contractor Certification - 2012
- Primavera certification - 2009
- OSHA Safety

## HERVE APOLLON

Project Manager



Mr. Apollon is a dynamic, results-oriented professional with over 18 years of experience in construction management for both vertical and horizontal construction. He is experienced in a wide range of projects, ranging from aviation and heavy civil engineering to new vertical construction and renovation projects. He is very familiar with performing construction in an operating environment, including both airport and school construction. He is experienced in change negotiations, cost reduction, quality control, contract documents, material acquisition and architectural plans review. In addition, he

is proficient in project management and controls software such as Primavera, Prolog and AutoCAD.

## EXPERIENCE

### **Expansion of Runway 9R/27L, Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL**

Mr. Apollon served as Project Engineer on this \$95 million project, which constructed an 8,000-foot-long runway, parallel taxiway, dual Crossfield taxiways and aircraft parking apron. The project required extensive coordination with other related contracts, including the sitework preparation contractor, bridge contractor, and NAVAIDS contractors working directly for the Federal Aviation Administration.

### **U.S.1 / FEC Railroad Bridge Structures, Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL**

Mr. Apollon served as Project Engineer on this \$239 million design-build project. The project entailed building bridge/tunnel structures to carry a runway and parallel taxiway over an existing railroad and multi-lane highway. Due to the length of the roadways beneath the structures were classified as tunnels, which required extensive life safety systems including foam deluge system, emergency lighting, and a dedicated drainage system.

### **Cypress Parking Garage / Rental Car Facility, Fort Lauderdale-Hollywood International Airport (FLL), Fort Lauderdale, FL**

Mr. Apollon served as Project Engineer on this \$247 million consolidated rental car center and parking garage project. The facility put 10 rental car companies under one roof in a 4.1-million-square-foot building, which was the largest in the country at that time. The project eliminated the need for each rental car company to operate at a different location and to run its own shuttle. The new facility has a common bus line that serves all the companies, eliminating about 1.2 million vehicle trips a year. Mr. Apollon was responsible for processing of RFIs, submittal packages, transmittals, construction directives, and correspondence, which were all tracked Prolog project management software

### **School Board Broward County, SMART Capital Program, Broward County, FL**

Mr. Apollon served as a Project Manager with the Corradino team as a major local partner for the School Board of Broward County (SBBC) as Owner's Representative for the 5 Year Capital Improvement Program (CIP). The Broward School District includes 31 incorporated municipalities and a student enrollment that is the second largest in the State and the sixth largest in the United States. The District serves over 262,000 students and 175,000 adult students in 229 schools and education centers.

### **School Board Broward County, Renovation of Northeast High School, Oakland Park, FL**

Mr. Apollon is the Project Manager for this \$41 million project to renovate Northeast High School, which has a 55-year-old campus. The scope of work includes upgrades to campus security, fire sprinklers, fire alarms, adding air conditioning to the physical education locker rooms and extensive roof repairs. In addition, the project will construct a new 24-classroom building that includes a "flex lab,"

# THE CORRADINO GROUP

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HERVE APOLLON · Page 2 of 2

which doubles as a lecture and lab space. Mr. Apollon oversaw the design process and negotiation with the general contractor for a guaranteed maximum pricing for construction.

## **School Board Broward County, Blanche Ely High School Addition, Pompano Beach, FL**

Mr. Apollon was Project Engineer for the contractor on this \$16 million addition to a high school, which originally opened in 1952. The project comprised a two-story classroom building on a 4.26-acre site on the school grounds and consisted of more than 55,000 square feet of construction at the Pompano Beach school. The addition featured 22 general classrooms, two art labs, five exceptional student education classrooms, an administration suite, two teacher planning suites, student and staff restrooms, and custodial service closets. Mr. Apollon was responsible for review and processing of project submittals and shop drawings, generating and coordinating remediation for punch list, review of subcontractor monthly pay requisitions, writing of contracts / scopes of work, coordination and resolution of field issues, generated RFIs, created, updated and tracked project schedule using Primavera P6 and reviewed, processed and submitted change proposals.

## **The Palace at Weston, Weston, FL**

Mr. Apollon was Project Engineer for the site contractor on this \$95 million retirement community. The facility offers Independent Living, Catered Living, Assisted Living, Nursing & Rehabilitation, Home Health Services, as well as Luxury Living for those 55 & Over. The project is on a 7.5-acre site and will ultimately comprise an Island & Club House, East & West Courtyard, 32 Villas and 320 apartment units. Mr. Apollon was responsible for reviewing construction documents, writing RFIs, processing of submittals using web-based Expedition software, cost estimating, obtaining construction and building permits, updating the project schedule, and submitting close-out documents to the owner.

## **North & South Parking Garage Mall, The Shops at Midtown, Miami, FL**

Mr. Apollon was Project Engineer for the contractor on this \$80 million parking garage and mall facility. Located in a highly urban areas, just minutes from downtown, The Shops at Midtown Miami occupies 26 acres of urban space during Miami's art district and hosts a variety of specialty shops and lifestyle retailers. Mr. Apollon was responsible for reviewing construction documents, writing RFIs, processing of submittals using web-based Expedition software, cost estimating, obtaining construction and building permits, updating the project schedule, and submitting close-out documents to the owner.

# Hugo Beteta

Mr. Hugo Beteta has been gaining experience since 2004 on Construction, Engineering and Inspection projects in South Florida. He has worked on projects for the Florida Department of Transportation (FDOT) District 6, the Miami Dade Expressway Authority (MDX), and FDOT District 4. Mr. Beteta has served on a number of significant projects as a Senior Inspector responsible for overseeing a wide variety of work activities. On his most recent project he served dual roles as Lead Senior Roadway Inspector and Assistant Contract Support Specialist (CSS) in preparation of his next transition on CEI projects while continuing to build on his skills and responsibilities. As assistance CSS, he reviewed inspectors' daily reports and maintained controls of daily pay item quantities, verified field quantities, reviewed and logged all material certifications, generated draft monthly estimates, maintained the RFI log and ensured all changes were incorporated into Plan Revisions or Final As-builts. He prepared Engineers Estimates and assisted with the Final Estimate Package by performing plan quantity take-offs to verify final quantities as well as revising the plan summary boxes.

## Relevant Project Experience:

- **CEI Services for I-95 Express Phase 3A-1 for FDOT District 4.** The scope of this project included widening/reconstruction of I-95 from south of Broward Boulevard to north of Commercial Boulevard including the construction of new Express Lanes. The project included roadway work, the replacement or widening of a number of bridges, complex/multi-phase MOT, drainage, extensive Mechanically Stabilized Earth (MSE) wall construction, noise barrier walls, signalization including drilled shafts and new mast arms, ITS including fiber optic networks, Dynamic Message Signs (DMS) and tolling infrastructure, signing and pavement marking including overhead signs, lighting, utility coordination and other ancillary work. Construction: \$149 million.
- **CEI Services SR 836 Interchange Modifications at 87th Avenue for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps and improvements to the NW 87th Avenue and NW 12th Street. The project included the construction of a new flyover ramp that provides direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involved the construction of noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Avenue to SR 826 and SR 836. This was an A+B Project. Construction: \$66 million.
- **CEI Services for SR 822 Sheridan Street Park for the Florida Department of Transportation District 4.** The project included milling and resurfacing,



Experience	With A <sup>2</sup>
8 Years	4 Years

## Project Title:

Project Controls

## Education:

Associates of Arts in Business Administration at Miami-Dade College in Miami, Florida

## Training and Certifications:

- NCTQP TIN # B33033680
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP Concrete Field Technician Levels 1 & 2
- CTQP Earthwork Construction Inspection Levels 1 & 2
- CTQP Drilled Shaft Inspection
- CTQP Pile Driving Inspection
- CTQP Final Estimates Levels 1 & 2
- CTQP QC Manager
- FDOT Advanced MOT
- IMSA Traffic Signal Technician Level 1
- ACI Concrete Field-Testing Technician Grade 1
- ACI Concrete Field-Testing Technician Grade 2
- Hazmat Certification
- Troxler Nuclear Gauge Safety Training Certification
- FDEP Stormwater Erosion & Sedimentation
- FNGLA Certified Horticultural Professional



drainage, signage and pavement markings, new curb stops, and construction of soil stabilization by Column Supported Embankment (CSE) along with the replacement of four Broward County Transit bus shelters. Construction: \$1.2 million.

- **CEI Services for Rehabilitation and Reconstruction of SR 7/US 441 Project for FDOT District 4.** The scope included additional lanes, lighting, ATMS/ITS, signalization, drainage, ponds, medians, sidewalk, curb ramps, bus bays, utilities, and signing and marking. There was also resurfacing on Pembroke Road and Washington Street as well as reconstruction and resurfacing on Hollywood Boulevard.
- **I-595 Oversight Contract for FDOT District 4.**
- **CEI Services for the Florida Keys Residency for the FDOT District 6.** This contract included two consecutively running roadway rehabilitation projects on US-1/SR 5. The scopes included milling and resurfacing, bike path reconstruction, shoulder widening, and signalization. These were in an environmentally sensitive, urbanized area in Key Largo and required strict adherence to the plans and specifications to avoid undue impact to the environment, traveling public as well as local residents and businesses. Construction: \$3.2 million.
- **Florida Keys/Monroe County CEI Residency Contract with FDOT District 6.** US-1/SR 5 Roadway Rehabilitation Project Involving roadway widening and reconstruction, milling and resurfacing, extensive drainage construction, and signalization. Contract also had three additional US-1/SR 5 roadway rehabilitation project involving roadway reconstruction, widening, extensive drainage construction, environmental mitigation, lighting, and landscaping. Construction: \$17 million.
- **CEI Oversight for the SR-836 Extension from E of NW 107th Avenue to NW 137th Avenue and NW 137th Avenue from 12th Street to SW 8th Street for the Miami Dade Expressway Authority (MDX).** This project required significant night-time activities.
- **CEI Services for SR 25/Okeechobee Road for the FDOT District 6.** This project was for the reconstruction of SR 25/Okeechobee Road from W 18th Avenue to E of W 12th Avenue.
- Coral Way and SR 826 Project
- Hialeah Expressway



# Nilo C. Regojo, AIA, LEED AP

Born in Miami, Florida, Nilo grew up visiting construction projects with his father, a civil engineer. This early influence directed him to a career in architecture, where he received his Bachelor of Design degree from the University of Florida. His love of older buildings led him to Philadelphia where he received a Master of Architecture degree from the University of Pennsylvania.

Working in the industry since 1979, Nilo has run an independent practice and worked for various architectural firms in Miami and Philadelphia as well as a national developer of historic residential properties. While with INTECH Construction, Nilo was a construction project manager and was a principal at spg3 in Philadelphia. His projects draw upon his unique expertise which consists of innovative design tempered with real world experience. He has worked on numerous projects nationwide including education, movie theaters, restaurants, and multi-family housing.

## Relevant Project Experience:

- **Regency 11 Theater, Panama City, FL** – Architect for a new 55,000 square foot movie theater with enhanced foodservice and state of the art sound and projection capabilities. Designed to replace the former theater that was severely damaged by Hurricane Michael. The new building employs site cast tilt-wall construction. Project Cost - \$20,000,000
- **Regal Royal Park - Gainesville, FL** – Architect for renovations to the lobby and concession stand including the installation of a new bar. Project Cost - \$1,600,000
- **Lauder College House, University of Pennsylvania** - Construction Project Manager while employed by INTECH Construction. Responsible for LEED administration and coordination of all M/E/P trades in a seven story, 198,000 square foot post tensioned concrete structure. The building was the first new student residence construction project by the University of Pennsylvania in over 40 years and has 350-beds. Designed with student amenities housed within the building, this new student residence includes social and academic spaces, accessory dining for students, and other common and support spaces. In addition, exterior work to the walkways and landscape surrounding the site included significant new hardscaping and landscaping. The project was designed using sustainable and energy conservation principles and has achieved LEED Gold certification.
- **Agnes Irwin School New Dining Hall & Athletic Facility** - Construction Project Manager while employed by INTECH Construction. Responsible for LEED administration and coordination of all building envelope trades. The 80,000 square foot project included a competition gymnasium, squash courts, a rowing tank, team locker rooms, and a 300-person dining hall and new kitchen. Both natural and artificial fields were constructed, as well as four new tennis courts. Complex site conditions included controlling a stream that cuts across the project site. This project has achieved LEED



Experience	With A <sup>2</sup>
42 Years	1 Year

## Project Title:

Lead Architect Project Manager

## Education:

- University of Pennsylvania, Masters of Science in Architecture, 1984
- University of Florida, Bachelor of Design in Architecture, 1979 with Honors

## Licenses:

- Registered Architect in Florida, License # AR 94889
- NCARB Certificate Holder, registered in 14 additional states

## Training and Certifications:

- LEED Professional Accreditation





# Nilo C. Regojo, AIA, LEED AP

Silver certification.

- **Iron Horse Movie Bistro, Scranton, PA** - Architect for the renovation of an eight screen 35,000 square foot movie theater. The theater had been closed prior to construction and the program included luxury recliner stadium seating, enhanced foodservice and state of the art sound and projection capabilities. Project Cost - \$8,000,000
- **915 North Broad, Philadelphia, PA** - Architect for conceptual design and feasibility study for a new 86 unit apartment building with ground floor retail space. Designs and cost estimates were prepared for two options; (1) six stories of concrete plank floors and load bearing partitions on a steel and concrete podium, (2) five stories of wood frame construction on a steel and concrete podium. Both options featured underground parking and "green" and "blue" roofs to comply with the City of Philadelphia stormwater mitigation standards.
- **Reel Cinemas, Lancaster, PA** - Architect for the interior fit-out of a seven-screen movie theater in a newly built retail center. The program included luxury recliner stadium seating, a mezzanine level micro-brewery, enhanced foodservice and state of the art sound and projection capabilities. Project Cost - \$5,500,000
- **44 Medford Street, Somerville, MA** – Responsible for completion of design phase services for a four story, twelve unit apartment building from schematic design through construction documentation as an independent consultant for Peter Quinn Architects. Managed the structural and MEP consultants and assisted in construction administration. Project Cost - \$4,500,000
- **13 Warwick Street, Somerville, MA** – Responsible for design of a three story, seventeen unit apartment building as an independent consultant for Peter Quinn Architects. Project Cost - \$5,500,000
- **South Bay Cinema, West Babylon, NY** - Architect for the renovation of a five screen 20,000 square foot movie theater. The theater was severely neglected prior to the start of construction and the program included stadium seating, new foodservice offerings, new HVAC systems and structural modifications. Project Cost - \$2,500,000
- **Florida Marlins Marketing Center, Miami, FL** – Construction project manager. The 2nd floor of an existing building across the street from the ballpark was renovated to serve as the Marlins Marketing Center. The space contained an exact replica of a luxury suite and was conceived as a special office where clients could experience an actual suite and a view a mock-up of the ballpark. The Marlins used the facility as their sales and marketing center prior to the opening of the ballpark. Project Cost - \$455,000.





**ABBAS H. ZACKRIA, RA CDT LEED AP**

**POSITION:** PRINCIPAL ARCHITECT – PRESIDENT

**EDUCATION:** 2001, Bachelor of Architecture, Rensselaer Polytechnic Institute  
2001, Bachelor of Building Science, Rensselaer Polytechnic Institute

**EXPERIENCE:** Mr. Zackria has twenty-four years of progressive experience in planning, design and construction of municipal, recreational, commercial and institutional projects. Since joining the firm in 1998, he has worked extensively on municipal and commercial projects in this office. Currently, he is responsible for all firm projects from inception to final completion. Mr. Zackria is the firm's primary client liaison. He performs all construction document quality control checks, prepares project specifications and bid documents, and thorough consultant coordination. He has successfully completed hundreds of traditional Design / Bid / Build and Design / Build projects.

**PROFESSIONAL  
REGISTRATION:** Registered Architect: Florida, Illinois, and Maryland

**PROJECT  
EXPERIENCE:**

**Broward Sheriff's Office:** Training Center and Parking Garage DCP.

**City of Miramar:** Police Headquarters DCP.

**City of Wilton Manors:** City Hall and Police Station, Mickel Park and Richardson Park Renovations.

**City of Coconut Creek:** 2014 National AWP Design Award Winner and LEED Silver Certified - Design/Bid/Build New Public Works Building with Regional 911 Dispatch Center and EOC.

**City of Coral Springs:** Mullins Park Meeting/concessions building, Kiwanis Park Meeting Building, North Community Park, Police Station and City Hall Office Renovations, Mullins Park Soccer and Concession Building and Teen Center, Aquatic Center and Tennis Center Renovations, Water Treatment Plant Administration Building, Police Firing Range and Police Station Renovation projects.

**Broward County Aviation Department:** Public Works Maintenance Facility for Fort Lauderdale International Airport. LEED Silver Certified. 2016 AGC Design Award Winner.

**Broward County Construction Management Division:** Design/Bid/Build Hurricane Hardening Upgrades to existing Public Safety Building.

**Broward County Facilities Maintenance Division:** Various Renovations to existing facilities including Chiller Plant Replacement, New Library Lights, New Condensate Lines, and ADA Renovations.

**City of Fort Lauderdale:** Aquatic Center Complex Evaluation and Master Planning Design, City Hall Renovations, Traffic Administration Building Renovations, Warfield Park Community Center, Lauderdale Manors Community Center, Croissant Park Community Center, Holiday Park Dugouts, Snyder Park Bldg. D.C. Alexander Park, Cancer Survivor's Plaza, and South Beach Restroom.

**City of North Lauderdale:** City Hall Renovations, Water Treatment Plant Controls Building, Teen Center Renovations, Aquatic Center Renovations, Public Works Building and Charter School Roof Replacement, New Fire Station #34, Fire Station #44 Renovations and other projects.

**MICHELLE MCDONOUGH, RA CBC LEED AP**

**POSITION:** ASSISTANT PROJECT ARCHITECT

**EDUCATION:** 2003 Bachelor of Architectural Design, University of Florida

**EXPERIENCE:** Ms. McDonough has seventeen years of management experience in various areas of construction development. Her experience ranges from small interior renovations to multi-million dollar municipal and commercial construction projects. She has knowledge of building construction methods and procedures, with an emphasis on architectural and engineering design, budget analysis, project coordination and construction administration.

**PROFESSIONAL REGISTRATION:** 2021, Registered Architect: Florida  
2018, Registered Architect: Colorado  
2013, US Green Building Council: LEED Green Associate  
2010, Florida Certified Building Contractor

**PROJECT EXPERIENCE:** Broward County Sheriff's Office – North Broward Jail Addition and Renovation; Pompano Gun Range, Crime Lab Renovations, Interview Room Renovations, Body Cameras, Pass-thru Door Replacement, Overhead Doors and Boiler Replacement, Main Jail Renovations, and Public Safety Building Office Renovations.  
Broward County Aviation Department – Maintenance Facility at Fort Lauderdale / Hollywood International Airport  
City of Coconut Creek – Engineering Building Addition  
City of Delray Beach – Old School Square Historic Building Renovations  
City of Fort Lauderdale – Aquatic Center Evaluation, Parking Administration Office Building  
City of Miramar – Police Department Substation, Water Treatment Lab Addition  
City of Sunrise – Pine Island Athletic Complex, Civic Center Addition  
Broward County – Sunview Park Community Center, Anne Kolb Tower and exhibit renovations, Agriculture Building Renovations, Everglades Holiday Park,  
City of Pompano – Kester Park Concession and Restroom Buildings

2007 – 2014 - MANAGED PROJECTS FOR BROWARD COUNTY AVIATION DEPT. Ft. Lauderdale/Hollywood International Airport  
Terminal 3 Checkpoint E Renovation and Reconfiguration (\$12M)  
Terminal 3 Checkpoint F/Escalator Relocation, design, construction documents (\$5M)  
FIDS Monitor Replacement in Terminals 1, 2, and 4  
Rental Car Center Directory Sign Replacement  
Palm Garage Expansion Joint Replacement  
Red Mango Renovation  
Sheltair Office Renovations  
Bombardier Office Renovations

## Saila Alath, P.E., LEED AP *Structural Project Manager*

Saila Alath has over twenty-four years of experience in structural engineering covering various phases of project development, structural analysis, design, design coordination, project management and construction administration. She is a LEED Accredited Professional familiar with the green building design and rating requirements. Aviation project experience includes:

- V-548, JetBlue Airlines Relocation, Orlando International Airport (MCO), Orlando, Florida
- South Terminal Complex: Central Energy Plant, Ground Transportation Facility, Checkpoint Delta, Promenade, Central Receiving and Distribution Center, Quick Turnaround A and B, MCO, Orlando, Florida
- BP-S100, South Airport Automated People Mover Complex, MCO, Orlando, Florida
- BP-488, West Security Screening Check Point Expansion Level 3, MCO, Orlando, Florida
- BP491, West Security Screening Check Point Expansion Package 2, MCO, Orlando, Florida
- BP-446, Oversize Baggage and Infrastructure Relocation, MCO, Orlando, Florida
- BP-447, Ticket Lobby Program – Main Ticket Lobby Modifications and Improvements, MCO, Orlando, Florida
- BP-442, Airside 4 Improvements Program – New Central Energy Plant, MCO, Orlando, Florida
- BP-443, Airside 4 Improvements Program – FIS/CPB Renovation and Wing Expansion, MCO, Orlando, Florida
- BP440, Communications Rooms and Infrastructure, MCO, Orlando, Florida
- V696, Landside B-Side Levels 2 & 3 Rehabilitation, MCO, Orlando, Florida
- T-1023 and T-1024 Duty Free Store Renovations, MCO, Orlando, Florida
- V-581, Airside 4 Federal Inspection Station (FIS) Screening Lane Relocation and Future Tenant Build-Out, MCO, Orlando, Florida
- BP-408, Cell Lot, Taxi Hold, Bus Hold and Return to Terminal A Road, MCO, Orlando, Florida
- BP-427, CCTV Renovation, MCO, Orlando, Florida
- G-010, East and West Security Check Point Way Finding, MCO, Orlando, Florida
- V-586, Wing 6 Tenant Office Improvements, MCO, Orlando, Florida
- T-978, Southwest Integration Florida, Phase 1, Airside 2, MCO, Orlando, Florida
- V-621, Airside 1 Restroom Refurbishment at Wings 4 and 5, MCO, Orlando, Florida
- V-546, Continental Airlines Relocation, MCO, Orlando, Florida



### Education

University of Central Florida  
Master of Sciences  
Foundations and Structures  
Calicut University  
Bachelor of Technology  
Civil Engineering

### Registrations

Professional Engineer Florida  
#53305  
Special Inspector (Threshold)  
Florida  
#7014462  
Certified General Contractor  
Florida #1521662  
LEED A.P. through USGBC

### Professional Affiliations

Member, American Concrete  
Institute  
Member, American Society of  
Civil Engineers  
Member, Precast and  
Prestressed Concrete Institute  
Member, American Institute of  
Steel Construction

Percent Availability – 70%





## DELTA G CONSULTING ENGINEERS, INC.



**George SanJuan P.E., LEED AP**  
**Principal**

Years of Experience: 38 / Years with Firm: 29

### **EDUCATION:**

Bachelor of Science in Mechanical Engineering – Rutgers University  
1989

### **LICENSING & REGISTRATIONS:**

Professional Engineer Licenses  
held in 2 States

### **PROFESSIONAL AFFILIATIONS:**

USGBC United States Green  
Building Council LEED  
Accredited Professional in 2007

**George SanJuan** founded **Delta G Consulting Engineers Inc.** in 1992. Mr. SanJuan has led the growth of the firm to twenty-four engineers and staff since October 1992. George SanJuan is an Electrical Professional Engineer with over Thirty-eight years' experience as an electrical engineer, project manager and Principal-in-charge

## **Experience**

### **FLL Exit Roadway and Valet Routing Improvements | Fort Lauderdale, FL**

#### **Project#190629**

This Project was for the final design for the Exit Roadway project which includes the development of 60%, 90% and 100% construction documents, environmental permitting, and bidding support services for the elements listed below. Alternative 6 that was developed during the 30% conceptual design efforts will be advanced with this design effort. No additional development of design alternatives is included in this scope. Services included all electrical design including roadway lighting, valet parking lot lighting, signage lighting and gates power sourcing, demolition of existing electrical connections to facilities removed.

### **FLL Remote Noise Mitigation Towers | Fort Lauderdale, FL**

#### **Project#190403**

This project was for the installation of two (2) remote noise monitoring poles (towers)/ devices to supplement eleven (11) other existing remote noise monitoring poles (towers)/ devices. Tower No. 12 will be located at the south end of the Dr. Von D. Mizell-Eula Johnson State Park overflow parking area and Tower No. 13 will be located on a lot used for parking at the Eastside Community Hall with an address of 4300 SW 55 Avenue, Davie, Florida. Tower No. 12 will be solar powered and tower No. 13 will receive electrical service power.

### **Delta Sky Club Space As-builts at FLL | Fort Lauderdale, FL**

#### **Project#180507**

This project consisted of preparing As-builts plans to facilitate a construction cost estimate. Services included construction documents for fire sprinklers, electrical, plumbing and mechanical systems.

### **Wayman Aviation School Building at HWO at North Perry Airport | Fort Lauderdale, FL**

#### **Project#170912**

This project was for the 10,000 sf Aviation School Building the project consisted of a two-story building 3 classrooms, 8 to 10 briefing rooms, 75 seat classrooms, Large breakroom/ vending area and restrooms. Services included MEP systems.

### **Fort Lauderdale Executive Airport - FXE Administration Building Renovation REV 9-1-16 | Fort Lauderdale, FL**

#### **Project#161107**

This project consisted of providing MEPFST systems for the renovation of the existing FXE Administration Building at the Fort Lauderdale Executive Airport.



## DELTA G CONSULTING ENGINEERS, INC.



### **Alfred Esquivel** **Managing Principal**

Years of Experience: 33 / Years with Firm: 8

#### **EDUCATION:**

Bachelor of Science in Electrical Engineering – Florida Atlantic University 1988

#### **LICENSING & REGISTRATIONS:**

Professional Engineer License in Florida

#### **PROFESSIONAL AFFILIATIONS:**

Institute of Electrical and Electronic Engineers (IEEE)

**Alfred Esquivel** joined Delta G Consulting Engineers, Inc. in 2011 as a Managing Principal. He has over 33 years of design experience in the MEP consulting engineering industry, including 22 years as a managing principal in the South Florida market. As a professional engineer, he specializes in master planning and the design of large electrical distribution and emergency power generation systems for complex building types, with particular emphasis in the design of Healthcare, Higher Education, Municipal, and Transportation facilities.

### **Experience**

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## YVES-STANLEY “STAN” DELMAS, PE

GEOTECHNICAL ENGINEER | PROJECT MANAGER

### EDUCATION:

Florida Atlantic Univ.  
Bachelor of Science  
Civil Engineering  
2010

### REGISTRATIONS:

State of Florida PE  
#80352 (2016)

State of Illinois  
PE# 062-071169  
(2019)

State of  
Pennsylvania  
PE# 089151  
(2019)

**EXPERIENCE: 13 YRS.**

**YRS AT H2R: 6**

### PAPERS WRITTEN:

D. Rancman, T. Nguyen, D. Hart, Y.S. Delmas. “Pile Group Effects and Soil Dilatancy at the Fort Lauderdale International Airport, Proceedings of the 2018 International Foundations Congress and Equipment Exposition (FCEE), Orlando, FL

Stan is responsible for the geotechnical design of civil projects, and the coordination of construction-phase services and inspections for a variety of projects. Stan’s design and knowledge of both geotechnical and conventional testing field services result in a skill set that combines his knowledge of design intent and the importance of collecting quality field data. He is experienced in geotechnical construction projects where mix designs, and in-situ testing is critical to the project’s success. In addition, he has significant laboratory experience. Stan is highly experienced in both deep foundation quality assurance as well as design, including ACIP pilings, driven pilings, and drilled shafts (including non-redundant).

### TAMPA INTERNATIONAL CURBSIDE AIRPORT EXPANSION, HILLBOROUGH COUNTY, FL

Geotechnical engineering for the Tampa International Airport Curbside Expansion Program which includes the replacement and expansion of the curbsides, new approach and exit bridges, new elevated and at-grade lanes, a new Central Utility Plant, and new vertical circulation buildings. The vertical circulation buildings will accommodate express passenger drop off/pick up and include conditioned lobbies to provide a means for passengers to access the main terminal via elevators and escalators from the new lanes.

### TAMIAMI TRAIL 2.6-MILE BRIDGE, FL, MIAMI – DADE COUNTY, FL / FDOT D6

As part of the Comprehensive Everglades Restoration Plan (CERP), The Florida Department of Transportation and the National Park Service replaced a portion of the Tamiami Trail Road/U.S. Highway 41 with a new 2.6 mile-long bridge. H2R Corp is responsible to provide geotechnical support to the Construction, Engineering, and Inspection team.

### S.R. 821 WIDENING FROM N. OF SW 72<sup>ND</sup> TO N. OF SW 40<sup>TH</sup> ST. - MIAMI – DADE COUNTY, FL / FDOT FLORIDA’S TURNPIKE ENTERPRISE

Geotechnical Engineer for this project in design, including 18-inch prestressed-concrete piles and micro-piles along with MSE and sound walls. Vibration and settlement have created issues with shallow foundation supported bridges and certain nearby structures. Improvements include the widening of Homestead Extension of Florida's Turnpike to three general purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway.

### BRIDGES OF THE ISLES & SUNRISE KEY BRIDGE REPLACEMENTS DESIGN-BUILD - FORT LAUDERDALE, FL / FDOT D4

Geotechnical Engineer responsible for the design of four new bridges and one bridge replacement to provide connectivity between the Nurmi Isles finger islands, north of Las Olas Boulevard, with S.R. 842 on the mainland. The project also involved complex maintenance of traffic, temporary signalization, traffic control plans, extensive utility coordination, geotechnical design, public outreach, and coordination with multiple stakeholders.



#### **SR 826/SR 836 INTERCHANGE RECONSTRUCTION, MIAMI – DADE COUNTY, FL / FDOT D6**

Geotechnical Engineer responsible for construction engineering and inspection services related to foundation installation and testing efforts. This \$550 million design-build project includes the replacement or new construction of more than 40 bridges and several miles of limited-access highway construction, along with the associated ramps, embankments, mechanically stabilized earth (MSE) walls, and other miscellaneous structures. Responsibilities also include oversight of the team performing dynamic pile testing, cross-hole sonic logging, embedded data collector testing, and pile integrity testing on foundation elements.

#### **DISTRICTWIDE GEOTECHNICAL AND MATERIALS TESTING PROJECTS - NASSAU, DUVAL & CLAY COUNTIES, FL / FDOT D2**

Geotechnical Engineer for districtwide contract that includes soil exploration, geotechnical exploration testing, highway materials testing, construction materials testing, and foundation studies.

#### **I-75 WIDENING PROJECTS - HILLSBOROUGH & PASCO COUNTIES, FL, FDOT D7.**

As part of geotechnical engineering and PDA services portion of the I-75 widening project, served as geotechnical engineering services for the CEI. In addition, provided dynamic pile testing services for the corridor which had fourteen bridges. The dynamic pile testing portion implemented the Pile Driving Analyzer (PDA) and the Embedded Data Collector (EDC).

#### **PORT OF MIAMI TUNNEL, MIAMI – DADE COUNTY, FL / FDOT D6**

Field Inspector for a major construction project in Miami, Florida. The project is a 0.75-mile-long split portal automotive traffic tunnel connecting the MacArthur Causeway on Watson Island and the Port of Miami on Dodge Island, as well as road improvements around the port of Miami. Work on the project involved downhole camera and field permeability testing on the wall of the tunnel. The project also required unconfined strength on soil cement and a triaxial test on soil.

#### **DYNAMIC PILE TESTING SERVICES, MIAMI – DADE COUNTY, FL / FDOT D6**

Project Manager for this project that involved performing dynamic pile testing services for construction of the new express lanes on existing I-75 express lane bridge over the Homestead Extension of Florida's Turnpike. Responsible for monitoring the project at appropriate intervals based on the contractor's schedule. Our firm is responsible for monitoring the test piles and providing pile casting length and recommendations. We are developing the pile driving criteria based on subsequent analyses including WEAP/CAPWAP and PDPILOT.

#### **HEFT ALL ELECTRONIC TOLL COLLECTION PHASE 3 DESIGN-BUILD - MIAMI – DADE COUNTY, FL / FDOT FLORIDA'S TURNPIKE ENTERPRISE**

Laboratory Technician/Field Inspector on a project that involved the conversion of the mainline and ramp toll plazas on the northern Homestead Extension of Florida's Turnpike (HEFT) to an all-electronic toll facility, including the conversion of tolls to SunPass/E-Pass. Inspector responsibilities involved modifications to mainline toll plazas and 16 ramp toll plazas, including demolition, grading, paving, maintenance of traffic, signing and pavement markings, intelligent transportation systems (ITS) preservation, lighting modifications, drainage modifications, toll plaza fiber-optic connections, toll equipment structure installation, and permitting. Services included field sampling and testing of soils and concrete, nuclear density testing of soils, casting of concrete cylinders, and performing crosshole sonic logging testing on selected drilled shafts.



# THAI NGUYEN, PhD, PE

CHIEF GEOTECHNICAL ENGINEER



## EDUCATION:

Ph.D., 2018  
M.Sc., 2001  
University of Florida  
Gainesville, Florida, USA,  
B.Sc., 1996, Vietnam  
EXPERIENCE: 26 YRS  
YRS AT H2R: 5

## REGISTRATIONS:

Florida P.E. No. 66551, 2007  
Master PDA CAPWAP  
proficiency, 2012, 2014  
SmartPile EDC User No.  
020FL0046-13, 2011

## PUBLICATIONS:

"Strength Envelopes of Florida  
Carbonate Rocks near Ground  
Surface." *Author, ASCE Journal  
of Geotechnical and GE, 2019.*  
"Case Studies of Rebounds on  
Long, Slender Piles." *Author,  
ASTM StressWave, 2018*  
"Case Studies - Driving Concrete  
Piles in Florida Pinnacle  
Limestone." *Author, ASTM  
StressWave, 2018*  
"Evaluation of Existing Deep  
Foundation Performance Using  
the FDOT Database to Improve  
Current Design Methodologies."  
*Contributor, FDOT 2005.*  
"National Cooperative Highway  
Research Program Report 507:  
Load and Resistance Factor  
Design (LRFD) for Deep  
Foundations." *Contributor, TRB,  
2004.*  
4 other ASCE, ARMA, and Rock  
Mechanics publications, 2018

Thai Nguyen has extensive knowledge in geotechnical engineering, specifically involving foundation systems for tunnels, bridges, buildings, dams, and other structures. Mr. Nguyen's technical experience in foundation testing includes Static Load Test (SLT), Dynamic Load Test (DLT), utilizing PDA, GPC, or EDC, Crosshole Sonic Logging (CSL), and Pile Integrity Tests (PIT). He is additionally skilled in engineering data management, soil structure interaction, earth retaining structures, slope stabilities, construction methodologies, ground improvement techniques, establishment and monitoring of geotechnical instrumentation, design of shallow and deep foundation systems, QA/QC during the installation of auger cast-displacement piles, drilled shafts, driven piles, and tie-down anchors, vibration monitoring programs, forensic engineering, and condition surveys for pre- and post-construction phases.

## FDOT DISTRICT 7 DISTRICTWIDE CONTRACT

Project Manager Jan 2020-current. Manage districtwide contract works involving asphalt plant (CEI), pavement coring (CMT), verification lab testing (CMT), verification field testing (CEI), and all geotechnical design as well as CEI services:

E7M87/439525-1-52-01/Pinellas/SR682 Bayway Drain age  
T7436/436485-1-52-01\_436485-1-52-02/Pinellas/SR595 Resurfacing  
E7M61/439516-1-52-01 & 439515-1-52-01/Pinellas/Skyway Fishing Pier  
T7437/436056-1-52-01/Pinellas/Booker Creak  
E7M85/44422-1-52-01 & 44423-1-52-01/Pinellas/I-175(SR 594)  
E7M97/440245-1-52-01/Pinellas/SR693 & SR688  
T7452/439699-1-52-01/ Citrus / CR 581 (Pleasant Grove Rd.)  
E7M38/435720-1-52-01 & -56-01/Hernando/ Good Neighbor Trail  
439832-2/ SR 52 at N 21st Street, Dade City  
443783-1/ SR 54 From US 19/SR 55 To W of Virginia City  
443783-1/ SR 54 From US 41 To East of Knights Road

## GOBLE PILE CHECK

Chief Engineer/ Lead Programmer 2016-current. Goble Pile Check (GPC) is the first innovation in modern Dynamic Load Testing in 40 years. Programmed and lead the team integrating four programs in the GPC-N\_GAPA suite using several programming languages. Successfully demonstrated field tests at multiple test sites.

## I-395, I-95, SR836 RECONSTRUCTION, MIAMI-DADE COUNTY 2019-current

CEI: The project initially started as a driven pile project. Mr. Nguyen was involved in 2019 in reviewing the DLT results of the driven piles in the preliminary phase. The Design-Built (DB) team decided that it was not feasible to drive piles to obtain the nominal bearing capacities and changed the design to 30-in and 36-in auger cast piles with depths typically 70 to 150 feet. Mr. Nguyen recently resumed reviewing the DB team's submittals on the following: auger cast pile length analyses, foundation certifications, drop hammer analyses, bi-directional load tests, thermal integrity tests.

## HEFT ALL-ELECTRONIC TOLL COLLECTION PHASE 3 DESIGN-BUILD, MIAMI-DADE COUNTY, FL, FDOT FLORIDA'S TURNPIKE ENTERPRISE

Review Engineer for project that involved the conversion of the mainline and ramp toll plazas on the northern Homestead Extension of Florida's Turnpike (HEFT) to an all-electronic toll facility, including the conversion of tolls to SunPass/E-Pass. Review DLT data on urgent requests, review of geotechnical analyses for drilled shaft design, review CSL tests, Embankment slope stability analyses.

#### ALLNAMICS SMARTPILE SOFTWARE REVIEW, FDOT STATE MATERIAL OFFICE, FL

Project Manager. Responsible for a research project for FDOT State Material Office to review new software packages developed by Allnamics, Inc. and SmartStructures, Inc. for the Smartpile EDC driven pile testing and production pile driving criteria.

#### S.R. 821 WIDENING FROM NORTH OF SW 72ND STREET TO NORTH OF SW 40TH STREET, MIAMI-DADE COUNTY, FL, FDOT, FLORIDA'S TURNPIKE ENTERPRISE.

Design: Senior Geotechnical Engineer for this project in design, including 18-inch prestressed-concrete piles and micro-piles along with MSE and sound walls. Vibration and settlement have created issues with shallow foundation supported bridges and certain nearby structures. Improvements include the widening of Homestead Extension of Florida's Turnpike to three general purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway.

CEI: Project Manager for this design-build project during construction phase, providing dynamic pile testing services, cross-hole sonic logging, vibration monitoring, pile driving inspection, noisewall foundation inspection, roadway construction oversight, bridge construction oversight and drilled shaft inspection for tolling, signage, and miscellaneous structures.

#### PILE DYNAMIC AND EMBEDDED DATA COLLECTOR TESTING, VIBRATION MONITORING, VARIOUS CLIENTS

Project Engineer/Project Manager. Responsible for PDA testing, verification testing, EDC testing, vibration monitoring for the following:

- Gateway bridge system, UES/FDOT, Pinellas County, FL.
- Dolphin Point condo, Pinellas County, FL.
- Bonita Beach condo, Lee County, FL.
- Weikivia, SR429, A2 Group, Inc./ Central Florida Expressway Authority, FL.
- Overland Bridge Replacement, Duval County, FL.
- Lake Okeechobee Pump Stations Structures S129, S131, S133, and S135, Martin and Okeechobee Counties, FL.
- Bird Fhosp Isbl oil sand region, Canada.
- I-75 widening (fourteen bridges), Atkins/FDOT, Hillsborough & Pasco Counties, FL.
- I-75 widening (River Road, Jackson Road, Havana Road, and Jacaranda Blvd), FDOT D1 Districtwide, Sarasota County, FL.
- Courtney Campbell Causeway trail bridge (Design-Build), FDOT, Hillsborough and Pinellas Counties, FL.
- SR 682 Pinellas Bayway, Stanley Consultants/FDOT, Pinellas County, FL.
- SR 72 over Myakka River detour bridge, FDOT, Sarasota County, FL
- Florida Turnpike Veterans Expressway widening over Hillsborough Ave, Johns Road, Channel G, Barry Road, and Henry St Ditch, Hillsborough County, FL.
- Moffitt Outpatient Center, Hillsborough County, FL.
- Homestead Extension of Florida's Turnpike Toll Plaza, Florida's Turnpike Enterprise, Miami-Dade County, FL.
- I-95 Widening Bridges, FDOT District 4, Palm Beach County, FL.
- I-95 Widening Bridges, FDOT District 6, Miami-Dade County, FL.
- SR 826/SR 836 Improvements, FDOT District 6, Miami-Dade County, FL.
- Raymond Road Bridge Replacement, Sarasota County, FL. Matlacha Bridge Replacement, Lee County, FL.
- US-19 over Bryan Dairy Road, 102nd Avenue, and 49th Street Bridges, FDOT District 7, Pinellas County, FL.
- Western Beltway Turnpike Bridges, Florida's Turnpike Enterprise, Orange County, FL.
- I-4 Bridges Widening, FDOT District 7, Hillsborough County, FL.
- I-4 over Reedy Creek, FDOT District 5, Kissimmee County, FL.
- SR 35 and SR 44 over CSX railroad, FDOT D5, FL.
- I-275 Widening over Cypress Creek, FDOT District 7, Hillsborough County, FL.
- Palatka Boardwalk Bridge, FDOT District 5, Flagler County, FL.
- C.R. 305 over Bull Creek, Bunnell, FDOT District 5, Flagler County, FL.
- US-301 Widening over Tadpole Creek and Bullfrog Creek, FDOT District 7, Hillsborough County, FL.
- I-275/SR 686 Bridges, FDOT District 7, Pinellas County, FL.
- SR 56 Ramp at I-75 and I-275, FDOT District 7, Hillsborough and Pasco Counties, FL.
- I-75 Widening Bridges, FDOT District 1, Lee and Collier Counties, FL.
- SR 80 over the Okaloacoochee Branch, FDOT District 1, Hendry County, FL.
- CR 901 over Cocohatchee Canal, FDOT District 1, Collier County, FL.
- Treasure Island Bridge Replacement, FDOT District 7, Pinellas County, FL.
- Norfolk Southern Drilled Piers, Mecklenburg County, NC



**EDUCATION:**

Bachelor of Science  
Civil Engineering  
Case Western Univ. 2002

**REGISTRATIONS:**

FL PE #70413  
PA PE #PE076115

EXPERIENCE: 19 YRS

YRS AT H2R: 5

**PROFESSIONAL AFFILIATIONS:**

Deep Foundations Institute  
American Society of Civil Engineers  
American Concrete Institute

**PUBLICATIONS:**

Rausche, F., L. Liang, R. Allin, & D. Rancman. "Applications and Correlations of the Wave Equation Analysis Program GRLWEAP." Proceedings of the Seventh International Conference on the Application of Stresswave Theory to Piles 2004, Petaling Jaya, Selangor, Malaysia, August 9, 2004.

D. Rancman, T. Nguyen, D. Hart, Y.S. Delmas. "Pile Group Effects and Soil Dilatancy at the Fort Lauderdale International Airport, Proceedings of the 2018 International Foundations Congress and Equipment Exposition (FCEE), Orlando, FL

T. Nguyen, D. Hart, & D. Rancman. "Case Studies – Driving Concrete Piles in Florida Pinnacle Limestone"

# DAVE RANCMAN, PE

SENIOR GEOTECHNICAL ENGINEER | PROJECT MANAGER



Dave Rancman began his career working on foundation projects across the United States and Caribbean. Through a variety of research projects, he developed unique foundation quality assurance testing equipment and methods that have now become industry standard. With a diverse portfolio, Dave works with clients across a variety of market sectors. He has successfully implemented innovative practices to efficiently manage company assets, including web-based preventative maintenance applications for complex assets, and internally developed staff and equipment management tools. Dave has also developed quality relationships with public entities such as FDOT, in addition to engineering consultants, and contractors, who partner with H2R to provide quality services. He has served on dozens of Florida transportation projects, either for design services or in support of CEI Teams.

**I-75 WIDENING PROJECT, HILLSBOROUGH COUNTY, FL, FDOT. [2011-2013]** Gary Granata, Gary.Granata@atkinsglobal.com

As part of the geotechnical engineering and pile driving analysis services portion of the I-75 Widening Project, provided geotechnical engineering services for the construction engineering and inspection. In addition, provided dynamic pile testing services for the corridor, which had 14 bridges. The dynamic pile testing portion implemented the PDA and the Embedded Data Collector.

**DISTRICTWIDE GEOTECHNICAL & MATERIALS TESTING PROJECTS, I-295 AT HECKSHCHER DRIVE INTERCHANGE, NEW BERLIN ACCESS, JACKSONVILLE, FL, FDOT D2. [2014]** Michael Horst, PE (352) 283-3049, Michael.Horst@dot.state.us

Senior Geotechnical Engineer responsible for oversight and performance of dynamic pile testing services through a districtwide geotechnical contract, and coordinating directly with the construction engineering and inspection in the issuance of pile length letters and pile driving criteria.

**BRIDGES OF THE ISLES AND SUNRISE KEY BRIDGE REPLACEMENTS DESIGN-BUILD SERVICES CONTRACT, FORT LAUDERDALE, BROWARD COUNTY, FL, FDOT D4. [2013-2016]** Alex Munilla, (786) 295 – 9391, Alex@falcon6group.com

Geotechnical Engineer responsible for this project to design four new bridges and one bridge replacement to provide connectivity between the Nurmi Isles finger islands, north of Las Olas Boulevard, with S.R. 842 on the mainland. This project incorporated accelerated bridge construction techniques through the use of precast superstructure and substructure elements. Services included accelerated bridge design and construction in an environmentally sensitive area with sea grass within the project site. The project also involved complex maintenance of traffic, temporary signalization, traffic control plans, extensive utility coordination,

geotechnical design, public outreach, and coordination with multiple community and agency stakeholders. Also provided construction services oversight, including pile driving inspection, dynamic pile testing, and vibration monitoring.

**S.R. 836 CONSTRUCTION ENGINEERING & INSPECTION SERVICES, MIAMI, FL, MIAMI-DADE EXPRESSWAY AUTHORITY (MDX).** [2014-2016] Martin Benzaquen, (954) 547 – 0017, mbenzaquen@gfnet.com

Geotechnical Engineer responsible for drilled shaft installation plan review, review of installation log, and cross-hole sonic logging data. Our firm is part of a joint venture providing CE&I services to MDX for the S.R. 836 (Dolphin Expressway) extension project. Work encompasses the westbound access ramp, S.R 836 infrastructure modifications for open-road tolling along the west section of the expressway, and S.R. 836 overhead sign structure coating.

**JUDGE S.S. JOLLEY (SR 951) BRIDGE REPLACEMENT, COLLIER COUNTY, FL [2011 – 2012] .** Dan Scheer, (850) 467-6598, dscheer@figgbridge.com

H2R Corp, then known as Gannett Fleming, provided peer review services to Figg Engineering, the designer for this new bridge connecting the mainland to Marco Island over Big Marco Pass via SR 951. The second parallel span built to adjacent to the 1969 Jolley bridge, now carries southbound traffic between Naples and the Island. H2R's original peer review services for the foundations were authorize by Figg, and H2R's services were retaining during construction to oversee deep foundation oversight services to the CEI Team. Mr. Rancman reviewed drilled shaft design and commented as appropriate, including an evaluation of constructability.

**S.R. 821 WIDENING FROM NORTH OF SW 72ND STREET TO NORTH OF SW 40TH STREET, MIAMI-DADE COUNTY, FL, FDOT, FLORIDA'S TURNPIKE ENTERPRISE.** [2014-2016] Wing Heung, (954) 444-9742, wing.heung@dot.state.us

Senior Geotechnical Engineer for this project in design, including 18-inch prestressed-concrete piles and micropiles along with MSE and sound walls. Vibration and settlement have created issues with shallow foundation supported bridges and certain nearby structures. Improvements include the widening of Homestead Extension of Florida's Turnpike to three general purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway. Project Manager for this design-build project during construction phase, providing dynamic pile testing services, cross-hole sonic logging, vibration monitoring, pile driving inspection, noisewall foundation inspection, and drilled shaft inspection for tolling, signage, and miscellaneous structures.

**FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT RUNWAY EXPANSION, BROWARD COUNTY, FL, BROWARD COUNTY AVIATION DEPARTMENT.** [2011-2015], Gavin Lichthardt (954) 605 - 7718, glichthardt@perini.com

Senior Engineer responsible for the certification of bridge foundations, including runway-taxiway bridges over road and railway. This includes administration/oversight of the pile test program and pile inspection staff for the joint venture. Additional responsibilities include contractor coordination, design coordination as part of the design-build process, data collection, and analysis of dynamic pile test data. Nearly 3,000 piles were driven including several hundred tests piles, set checks, and re-drives in complex soil conditions.



# Karl Angerer, PE, PEng.

## Director of Electrical Engineering

Mr. Angerer has performed electrical engineering planning and design for aircraft fueling and other ramp service system projects since 1989. He is experienced in the design and commissioning of projects that include secondary power systems, uninterrupted power systems, lighting, instrumentation and controls. His ramp service projects include fuel receiving, storage and distribution facilities, aircraft hydrant fueling systems, underground storage tanks (UST), aircraft 400-hertz ground power systems, preconditioned air and aircraft deicing systems.

## Relevant Experience

### **ORD Fuel System Improvement Program (FSIP) Master Engineer, Chicago O'Hare International Airport, Illinois**

**SENIOR ELECTRICAL ENGINEER.** Argus Consulting has been retained to provide technical oversight and advice during design, construction and commissioning of a new state-of-the-art \$150 million fuel system which intends to rehabilitate and improve the aircraft fueling system as defined in the Fueling Master Plan.

### **CLT Fuel Farm Expansion, Charlotte Douglas International Airport, NC**

**ELECTRICAL ENGINEER.** The CLT Airfield Fuel System Master Plan identified a phased development program for the Fuel Farm to ensure the fueling infrastructure could continue to support the growing airport into the future. The City has elected to roll the Phase 1 and 2 tasks into a single design package and retained Argus Consulting for design services, bidding and construction administration. Phase 1 of the Fuel Farm development plan includes demolishing existing 10,000-barrel Tanks and replacing them with one nominal 37,000-barrel tank. Phase 2 includes the construction of one 45,000-barrel tank in a new containment dike and the relocation of a short segment of Colonial Pipeline pipe west of the fuel farm.

### **Replace Truck Offloads, Homestead ARB, Florida**

**ELECTRICAL ENGINEER.** This project consists of the demolition and replacement of both truck offload positions, concrete containment pads, and associated canopies at the Bulk Fuel Farm at the Air Reserve Base. Demolition also includes the removal of the 600 GPM receipt pump and receipt filter separator inside the existing pumphouse. The project includes filtration, relocation of truck offload containment valves, emergency eyewash stations, EFSO and area lighting.

## EXPERIENCE

- ▶ 22 years with Argus
- ▶ 31 years total experience

## EDUCATION

- ▶ Bachelor of Science, 1988, Electrical Engineering, University of Missouri

## REGISTRATION

- ▶ AR/Lic. No. 16575
- ▶ AZ/Lic. No. 39953
- ▶ CA/Lic. No. E17605
- ▶ FL/Lic. No. 64236
- ▶ IA/Lic. No. 23895
- ▶ ID/Lic. No. 14000
- ▶ KS/Lic. No. 22204
- ▶ MI/Lic. No. 6201061909
- ▶ MN/Lic. No. 47715
- ▶ MO/Lic. No. 25965
- ▶ NV/Lic. No. 17770
- ▶ NM/Lic. No. 21587
- ▶ OK/Lic. No. 21502
- ▶ UT/Lic. No. 8247271-2202
- ▶ BC/Lic. No. 166349
- ▶ YT/Lic. No. 2279





## EXPERIENCE

- ▶ 10 years with Argus
- ▶ 21 years total experience

## EDUCATION

- ▶ Bachelor of Science, 2003, Mechanical Engineering, Florida International University

## REGISTRATION

- ▶ FL/Lic. No. 72384

# Jorge Alfaro, PE

## Senior Mechanical Engineer

Mr. Alfaro has dedicated most of his professional carrier to the design of fuel systems for all types of facilities, including aboveground and underground storage tanks, from city gas stations to state and government installations and international airports. He develops applications for performing mechanical engineering complex calculations including Fluid Dynamics and Statistical Analysis which are decisive factors for efficient airport planning. Mr. Alfaro is studying for his Master of Science in Machine Learning and Artificial Intelligence, Liverpool John Moores University (LJMU), England.

During his time with Argus Consulting, Mr. Alfaro has contributed to the mechanical engineering design team to produce innovative solutions to many challenging problems. Most notably, he designed and developed the Flight-Based Model (FB-Model) as a solution to the difficult task of estimating daily fuel uplifts and peak demand analysis for airport planning. His model is currently used to simulate fuel operations in many airports in North and Latin America, including ORD O'Hare International Airport-Illinois, LGA LaGuardia-New York, BNA Nashville- Tennessee, FLL Fort Lauderdale Intl Airport-Florida, BOG El Dorado International Airport-Colombia, EZE Ministro Pistrani International Airport-Argentina, LIM-Jorge Chavez International Airport-Peru, MEX-Benito Juarez International Airport-Mexico, MVD-Carrasco Airport-Uruguay, SCL-Arturo Merino Benitez-Chile among many others. He has also developed applications to perform Statistical Analysis to forecast Fuel Consumption when flight schedules are not available. In addition, he developed a series of programs to perform calculations in multiple Fuel System Design and Engineering areas.

## Relevant Experience

**MIA New Jet Fuel Pumping System, Miami International Airport, Florida**  
MECHANICAL ENGINEER. This \$13 million project included the construction and installation of a new 30"/36" double containment underground jet fuel suction header, six 200 hp jet fuel pumps and filter separators with dedicated pump rooms, and the 24"/30" double containment underground discharge header to be connected to the airport jet fuel distribution system.

### **FLL Fuel Storage Facility Assessment, Fort Lauderdale-Hollywood International Airport, Florida**

MECHANICAL ENGINEER. Argus conducted an evaluation of the existing Fuel Storage Facility, which was built in 1984, to recommend improvements and modifications to update the system's efficiency and operations to serve the airport's needs for the next 30 years. Each of the major components of the facility were evaluated including four 27,000 BBL tanks, incoming pipelines, filtration, hydrant pumps and filters, loading stations, an operations and maintenance building, and the fire protection system.



# Jared Tate, P.E.

## Civil Engineer

Mr. Tate has extensive experience with commercial and military aviation fueling projects ranging from routing fuel mains and hydrant pits to designing tank farm layouts for some of the nation's busiest airports. He specializes in general civil site design, profiles, surfaces, and grading for aviation fuel systems and storage facilities, AutoCAD Civil 3D, and storm water best management practices.

## Relevant Experience

### JFK Terminal 1 30% Design, JFK International Airport, New York

**CIVIL ENGINEER.** Argus is providing preliminary design services associated with the redevelopment of Terminal 1 at JFK. The scope of the project is the phased demolition/decommissioning of the ramp hydrant systems serving Terminals 1, 2 and 3 and the phased construction of a new ramp hydrant system to serve the planned 27 gate redevelopment of Terminal 1.

### LGA Tank Farm and Transmission Main Program Management, LaGuardia Airport, New York

**CIVIL ENGINEER.** Argus Consulting provided program management and concept design services for the necessary infrastructure improvements to provide hydrant fueling for Terminals B, C and D at LaGuardia Airport. Argus provided project management, planning, alternative evaluation, conceptual design, scheduling and cost estimating for the design of the aviation fuel distribution system.

### BNA Fuel System Upgrades, Nashville International Airport, Tennessee

**CIVIL ENGINEER.** The Metropolitan Nashville Airport Authority (MNA) retained Argus Consulting for planning, design, construction and resident engineering services to upgrade the airport fueling facilities that were constructed in the 1980s. The resulting BNA Fuel System Repairs project provides improvements to nearly all fuel system functions including pipeline receipt, truck unloading, fuel storage, hydrant fueling, tank-to-tank transfer and refueling loading.

### MSY New Fueling Systems Planning, Design and Construction

#### Administration, Louis Armstrong New Orleans International Airport

**CIVIL ENGINEER.** Argus Consulting provided planning, design, construction administration and resident engineering services for new Jet A fueling systems to support a new North Terminal. This program features a terminal ramp distribution system serving 35 increased fuel storage capacity and a new receipt system, a new transmission system as operational and life safety upgrades to the existing ASTs and the refueler load racks. The tank farm upgrade includes the addition of two 10,000 BBL ASTs, an inbound filtration station, a transfer pump/filtration station, Operations and Maintenance Building, tanker offload capability, and it is connected to the terminal by dual transmission lines directionally drilled beneath the runway.

## EXPERIENCE

- ▶ 10 years with Argus
- ▶ 10 years total experience

## EDUCATION

- ▶ Bachelor of Science, 2012, Civil Engineering, University of Missouri

## REGISTRATIONS

- ▶ NY Lic. No. 099948
- ▶ FL Lic. No. 85918
- ▶ KS Lic. No. 25648
- ▶ NC Lic. No. 045736
- ▶ PA Lic. No. PE087618
- ▶ VA Lic. No. 0402060196
- ▶ LA/Lic. No. PE44375
- ▶ MA/Lic. No. 54980
- ▶ NH/Lic. No. 16923

# Juan Alonso

Mr. Juan Alonso has been working in the Civil Engineering and Construction industry since 1989. Throughout his professional career, he started working in the Florida Department of Transportation (FDOT) District 4 & 6 Materials Office, Inspector, Senior Roadway Inspector, Senior Bridge Inspector, Contract Support Specialist, and Project Administrator. Most of his project experience has been gained on projects for FDOT. He has served as a Project Administrator on nine FDOT projects totaling over \$60 million.

## Relevant Project Experience:

- **021 CEI Bridge Rehabilitation Contract for FDOT District 6.** This includes bridges over the intercoastal waterway, intracoastal canal, spillway, and Indian Creek Waterway some of which are bascule bridges. Mr. Alonso is the Project Administrator. Contract: \$7 million.
- **CEI Services for I-95 Express Lanes Phase 3A-1 from South of Broward Blvd to North of Commercial Blvd for FDOT D4** (FIN 433108-4-52-01 & 428009-1-52-01). Project improvements included extending the existing express lanes north from just south of Broward Blvd to just north of Commercial Blvd in Broward County. One lane was added and the High Occupancy Vehicle (HOV) lane will be converted to create two express lanes in each direction. Other work included installing Intelligent Transportation System (ITS) and tolling equipment; widening bridges; and installing noise barrier walls at locations along I-95 Southbound between Broward Blvd and NW 6th Street, and along I-95 Northbound between Powerline Road and Commercial Blvd. Construction: \$149 million.
- **CEI Services for SR 836 Interchange Modifications at 87th Ave for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps, improvements to the NW 87th Ave and NW 12th Street. The project included the construction of a new flyover ramp that provides direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involved the construction of noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Ave to SR 826 and SR 836. Construction: \$66 million.
- **FDOT D4 CEI Services for the Design/Build of I-75 Segment C Express Lanes from South of Miramar Parkway to South of Sheridan Street.** The I-75 Express Lanes improvements were constructed within the existing 166-foot wide median, which generally consisted of a barrier wall divided 4-lane tolled roadway (two 12-foot travel lanes in each direction), with 6-foot paved inside shoulders, and 12-foot (10 feet paved) outside shoulders. The Segment C Project also included construction of the Pembroke Road



Experience	With A <sup>2</sup>
33 Years	5 Years

## Project Title:

Assistant Project Manager

## Education:

- US Naval Mechanical Engineering School

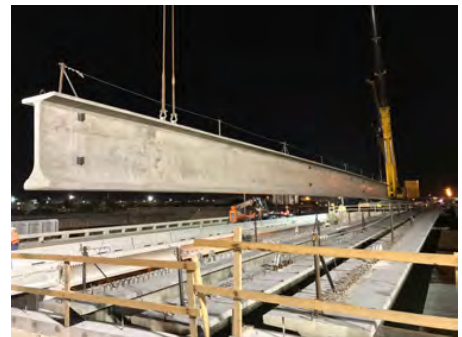
## Certifications:

- CTQP TIN #A4524236
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP Drilled Shaft Inspection
- CTQP Pile Driving Inspection
- CTQP Post-Tensioning Technician Level 1
- CTQP Final Estimates Levels 1 & 2
- CTQP QC Manager
- FDOT Advanced MOT
- Troxler Nuclear Gauge Safety Training
- Hazmat Certification
- IIMSA Traffic Signal Inspection Level 1
- ACI Concrete Field Technician Level 1 & 2
- PTI Level 1 Multistrange & Grouted PT Installation
- FDEP Stormwater Erosion & Sediment Control
- FHWA- Intro to Value
- FHWA- Intro to Safety Inspection Services Bridges



Overpass Bridge and the Ramp H-11 Bridge, and reconstruction of the Miramar Parkway Interchange, including the Miramar Parkway Bridge over I-75. Construction: \$85.2 million.

- **FDOT D6 South Dade CEI Residency, SW 57th Ave Reconstruction.** The project scope included reconstruction, milling and resurfacing, drainage, curb and gutter and sidewalk, lighting, signalization, signing and pavement markings, and A.D.A. compliance. Mr. Alonso served as a Contract Support Specialist and his responsibilities included submittal of monthly pay estimates, audit of monthly certifications/reports (MOT, Striping, Bituminous Adjustment, SWPPP, etc.) to support the monthly estimate submittal, preparation of Contractor Past Performance Reports, weather letters, monthly progress reports, ensuring completeness and timeliness of materials submittals and LIMS reconciliation to support the Final Estimates Materials Certification. Construction: \$5 million.
- **FDOT D4 SR-814/Atlantic Blvd from West of NE/SE 202th Ave to SR-A1A.** The scope included milling and resurfacing, drainage, signalization, signing and pavement markings, and A.D.A. compliance. Mr. Alonso served as a Contract Support Specialist. His responsibilities included submittal of monthly pay estimates, audit of monthly certifications/reports (MOT, Striping, Bituminous Adjustment, SWPPP, etc.) to support the monthly estimate submittal, preparation of Contractor Past Performance Reports, weather letters, monthly progress reports, ensuring completeness and timeliness of materials submittals and LIMS reconciliation to support the Final Estimates Materials Certification, and electronic document management (Hummingbird). Construction: \$2 million.
- **City of Miami NE 2nd Avenue, Segments C and B2 (NE 51st to NE 69th Streets).** The projects involved total reconstruction including grade realignment, drainage, lighting, signalization, sidewalks and ADA facilities, and landscaping. These are LAP/ARRA Projects with FDOT's District 6 that require compliance with FDOT Specifications and Standards, including materials testing and contract administration. Construction: \$4.5 million.
- **FDOT D6 Florida Keys CEI Residency.** Projects included roadway reconstruction and widening, lighting and signalization, environmental mitigation, and drainage. Many projects ran concurrently requiring multi-tasking with project scopes, contractors, designers, and municipalities. Each project exceeded the District's goals of time, budget, and customer satisfaction. Construction: \$23 million.
- **FDOT D6 SR-826 at Coral Way and SR-90 (SW 8th Street) Reconstruction.** This project consisted of twelve bridge replacements/modifications, including the placement of the mainline SR-826 bridges over Coral Way, the placement of a pedestrian bridge, and the construction of over 5-miles of cast in place noise walls, Mechanically Stabilized Earth Walls, Steel Sheet Piling and Concrete Bulkhead Walls. Bridges included drilled shaft foundations and concrete piles. Construction: \$87 million.



# David H. Howard

Mr. David H. Howard has been working in the construction industry since 1992. His responsibilities have included project scheduling, coordination between contractors and the Florida Department of Transportation, reviewing log books and field books, and maintaining documentation. He has been working for A<sup>2</sup> since 2006.

## Airport Project Experience:

- **V-867 Centerfield ARFF Administration Building for the Greater Orlando Aviation Authority (GOAA)** in Orlando, Florida. The project included construction of a new 4,600 sq ft administration building to support Centerfield ARFF. Construction: \$2 million.
- **W-S00134 HBJ Warehouse Renovation Global Oversight for GOAA.** This included the interior renovation of an existing facility, roof and HVAC replacement, installation of a new fire main, exterior lighting replacement, and pavement replacement. Construction: \$6 million.
- **BP-473 Parking Garage A Fire Alarm Upgrades for GOAA.** This project included replacement of the existing fire alarm system and new conduit system. Construction: \$873,000.
- **BP-S174 Heintzelman Rent-A-Car Storage Lot #1 for GOAA.** This project included the new rent-a-car vehicle storage and maintenance facility, installation of water distribution, store drainage, and site lighting, embankment, asphalt paving, concrete paving, guardrail, fence, pavement markings, and signage. Construction: \$19.6 million.
- **BP-S172 South Employee Parking Lot for GOAA.** The contract included a new 1,500 space employee parking lot, pre-engineered canopy structures, and delegated design guard booth with access control measures. Construction: \$5.6 million.
- **V-S00009 South Roadway OT-16 Bridge Mounted Roadway Sign for GOAA.** This contract included the installation of two bridge mounted roadway signs on the south secure road bridge above Jeff Fuqua Boulevard. Construction: \$220,000.
- **BP-469 Loop Road Resurfacing for GOAA.** BP-469 Loop Road Resurfacing and Related Work consists of milling and resurfacing of the existing asphalt pavement, maintenance of traffic (MOT), pavement markings, and improvements to the roadway lighting for the Loop Road and Terminal as well as demolition of existing Gate E-30 and the installation of (2) new gates at this access point to the AOA. Construction: \$7.2 million.
- **BP-043 ORL Runway Incursion Mitigation (RIM) and Related Improvements to Taxiway A Rehabilitation for GOAA.** The project included enhanced airfield safety for aircraft operations, modifications to existing taxiway's geometry, paving, lighting, markings, and signage.



Experience	With A <sup>2</sup>
30 Years	16 Years

## Project Title:

Assistant Project Manager

## Education:

- General Studies from Snow College in Ephraim, Utah
- Diploma from Sky View High School in Smithfield, Utah

## Training and Certifications:

- TIN # H63016873
- DOL/OSHA Safety Certification
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP Concrete Field Technician Level 1
- CTQP Earthwork Construction Insp. Levels 1 & 2
- CTQP Drilled Shaft Inspection
- CTQP Final Estimates Levels 1 & 2
- CTQP QC Manager
- FDOT Advanced MOT
- ACI Concrete Field Technician Grade 1
- Critical Structures Construction Issues
- Nuclear Safety/Hazmat Certification



# David H. Howard

Construction: \$4.2 million.

- **BP-478 Airside 1 & 3 Apron Rehabilitation for the GOAA** in Orlando, Florida. The project consisted of crack routing, joint sealing, and centerline striping. Construction: \$1.24 million.
- **H-318 Airside 1 and Slab Replacement at the Orlando International Airport for GOAA.** The contract included replacing 56 concrete slabs. Construction: \$1.23 million.
- **H-299 AOA Security Fence Upgrade for the GOAA** in Orlando, Florida. This contract was the upgrade 10,000 lf of secure area chain link fence and gates. Construction: \$500,000.
- **V-864 Sanitary & Grease Line Replacement LS, Level 1 for GOAA.** Construction: \$200,000.
- **H-304 NTC Level 1 Grease Trap Sanitary Line Replacement for the GOAA** in Orlando, Florida. This was diagnostic evaluation and replacement of existing sanitary lines. Construction: \$160,000.

## Additional CEI Experience:

- **CEI Services for Wekiva Parkway 429-204 Systems Interchange of SR 429 & SR 453 for the Central Florida Expressway Authority (CFX).** The contract included construction of the new 2.63-mile segment of the limited access roadway in Apopka, Florida. The project extended through 175-acres of greenfield, with nearly 150-acres of clearing and grubbing, 51,000-SF of house/associated structures demolition and existing fence removal. The project included eight bridges composed of 48-72" haunched concrete U-girders, 18" concrete piling. It also included roadway construction, excavation, import embankment, a 6-month surcharge area, sinkhole grouting, asphalt, drainage piping, and structures. The work also included pond construction, FON construction, CCTV, highway lighting, sign structures, signage, pavement markings, sod and seed and mulch. Construction: \$79.6 million.
- **CEI Services for SR 417/Boggy Creek Interchange in for the CFX.** This project encompassed 2.98 miles of construction along SR 417 mainline. The SR 417 Interchange at Boggy Creek provides connection to the South Access Road of the Orlando International Airport (OIA). The project includes the widening and construction of 7 bridges including 3 post-tensioned concrete box girders flyovers and the MSE wall panels. Construction: \$85 million.
- **CEI Services for SR- 408 (Project #408-113) for CFX.** The project included SR-408/SR-50 Eastbound Exit Ramp Improvements and SR-408 Eastbound Mainline Re-alignment.





# Javier A. Tilano, P.E.

Mr. Javier Tilano, P.E. has a Bachelor's Degree in Engineering and has been working on roadway projects in Florida since 2005. He has experience as a QC and VT inspector in sampling of materials, concrete testing, conducting drilled shaft inspections, maintaining density log books, keeping daily field reports, and inspecting and monitoring contractor field work. Mr. Tilano began working for A<sup>2</sup> in 2009.

## Relevant Project Experience:

- **CEI Services for the Turnpike Mainline at I-4, Direct Connect Ramps and Resurface Turnpike in Orange County for the Florida Turnpike Enterprise (FTE).** This project is a 21-mile make-over of I-4 from west of Kirkman Road in Orange County to east of SR 434 in Seminole County. Construction: \$90 million.
- **CEI Services for the SR 836 Interchange Modifications at 87th Avenue for the Miami Dade Expressway Authority (MDX).** The project included improvements to the mainline and existing ramps, improvements to the NW 87th Ave and NW 12th St. The project included the construction of six new FIB bridges and a new twin steel trapezoidal box girder flyover ramp that provide direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involved the construction of noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Ave to SR 826 and SR 836. Construction: \$70 million.
- **CEI Services for the Wekiva Parkway 429-204 Systems Interchange of SR 429 & SR 453 for the Central Florida Expressway Authority (CFX).** The project scope included construction of a 2.63-mile segment of the limited access roadway extending through 175-acres of greenfield, with 150-acres of clearing and grubbing and 51,000-SF of residential demolition. The project constructed eight concrete haunched U-girder bridges, including the first curved post-tensioned haunched U-girder bridge built in Florida., Roadway construction included 2.48 million-CY of import embankment, geotechnical surcharge, sinkhole grouting, asphalt paving, extensive drainage and a variety of related construction. Construction: \$80 million.
- **CEI Services for the SR 417/Boggy Creek Road Interchange Improvements for the CFX.** This project encompassed 2.98 miles of construction along SR 417 mainline and South Access Rd. The scope included the new construction of four flyover and bridge ramps, new roadway and bridge construction of South Access Rd, roadway and bridge widening of SR-417, ramp reconstruction, ramp widening, drainage improvements, lighting, signing, pavement marking and ITS. The improvements under this contract included two widening bridges and five new bridges. The bridge construction was comprised of prestressed concrete piles, Superstructure



Experience	With A <sup>2</sup>
17 Years	13 Years

## Project Title:

Senior Inspector

## Education:

- Bachelors of Science in Engineering from the Universidad del Atlantico in Barranquilla, Colombia

## Licenses:

- P.E. License Florida # 74533

## Training and Certifications:

- CTQP TIN# T450421661480
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP Concrete Field Technician Levels 1 & 2
- CTQP Earthwork Construction Inspection Levels 1 & 2
- CTQP Drilled Shaft Insp.
- CTQP Pile Driving Inspection
- CTQP Final Estimates Levels 1 & 2
- CTQP QC Manager
- Qualified Post Tensioning Technician Level 1
- FDOT Advanced MOT
- ACI Concrete Field Tech Level 1
- PTI Level 1 Bonded PT
- Critical Structures Construction Issues
- Nuclear Safety/Hazmat
- OSHA Fall Protection

Concrete, Mass Concrete, ASSHTO Type V concrete beams, ASSHTO Type VI concrete beams, Twin Steel Box Girders, Precast Prestressed Splice U-Girder and Precast Prestressed Splice U-Girder. Ramps G, H and I are Category 2 Bridges. Ramps J, H and I are Curved Post Tensioned Concrete Box Girders. This project also included the excavation of material from existing ponds, milling of existing asphalt pavement, super pave traffic level C, paving of friction course FC-5, installation of new drainage system, directional bores, sheet piling, the installation of Argentina Bahia and the construction of concrete box culvert. The signing work required to construct 6 each overhead truss and 11 each overhead cantilever signs, 23 each drilled shafts for the overhead signs. The project also included the installation and splice of new Fiber Optic Cable with their respective manholes. Construction: \$82.5 million.

- **CEI Services for the Systemwide Retro-Reflective Pavement Markers (RPM) Replacement for CFX (Project #599-721).** Work consisted of providing labor, materials, equipment and incidentals to furnish and install RPMs along SR 408, SR 417 and SR 528 in Orange County.
- **CEI Services for the Mill and resurfacing Sugarloaf Key from MM 16.0 to 19.3 for the FDOT D6.** This was an eight-month project that involved repaving and restriping the road. Construction: \$2.4 million.
- **FDOT D6 CEI Project for SR A1A South Roosevelt Blvd on the Thompson Creek/Riviera Canal Bridge and the Big Pine on the South Harbor Bridge in the Keys.** This contract was for 2 bridge rehabilitation projects (AASHTO). These bridges are located within Florida Designated Pristine Waterways requiring strict adherence to environmental provisions and ensuring navigability of waterways. Bridge superstructure repairs included rehabilitation of deck (new reinforcement and topping), traffic railing, and walkways. In addition, the foundation and substructure rehabilitation included cathodic protection systems and metalizing, containment systems, spall repairs, continuity corrections, pile jacket installation, column jackets installation, energizing, strands repairs, and metalizing. Construction: \$3 million
- **CEI Services for FDOT D5's Lake Alfred Project.** The project consisted of construction of a split pair through Lake Alfred from the intersection of US 17/92 to Rochelle Ave. Existing US 17/92 NB was milled, resurfaced and striped to accommodate 3 lanes of traffic to Hanes St. New SB construction took place from Echo St to the tie-in just South of Rochelle Ave. The scope of work included earthwork, drainage, subbase, base, curb, sidewalk, asphalt, landscaping, signals, lighting, signing and pavement marking. Construction: \$7.6 million.
- **CEI Services for the SR-528/Narcoossee Road Interchange Project for the CFX.** Work included an eastbound mainline temporary bridge extension, demolition of existing bridges and reconstruction of two new steel plate girder bridges. Construction: \$23.7 million.



# Eric M. Jenkins, P.E.

Mr. Eric Jenkins has been performing inspections in the Transportation Industry since 1988. He has Bachelors of Science degree in Civil Engineering from the University of Pittsburgh where he graduated Magna Cum Laude. His transportation inspection experience includes highways, bridges, structures, force mains, auger bores, pump stations, bituminous and concrete paving, erosion and sediment controls, generator installations, and security fencing. Mr. Jenkins worked on the design for five years and was responsible for bridges, culverts, landfills, sewer lines, equipment and structure foundations, and steel bridges. In addition to transportation projects, he has worked on wastewater treatment facilities, water, and sewer projects.



## Relevant Project Experience:

- **CEI Services for Turnpike Mainline at I-4, Direct Connect Ramps and Resurface Turnpike in Orange County for Florida's Turnpike Enterprise (FTE).** This project is a 21-mile make-over of I-4 from west of Kirkman Road in Orange County to east of SR 434 in Seminole County. Construction: \$2.3 billion.
- **CEI Services for I-95 (SR 9) at North I-295 Interchange Design/Build Project for FDOT District 2.** The interchange is being modernized and reconfigured to increase capacity and improve traffic flow and safety. The scope includes minor ramp improvements and auxiliary lanes are being added to I-95. The Cole Road bridge over I-95 is also being replaced. There is also bridge replacement/construction and ramp reconstruction along US 17. Construction: \$176.8 million.
- **CEI Services for SR 836 Interchange Modifications at 87th Avenue for Miami Dade Expressway Authority (MDX).** The scope of this project includes the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to enhance the overall operation of the system. The project includes improvements to the mainline and existing ramps, improvements to the NW 87th Avenue and NW 12th Street. The project includes the demolition of three main line bridges, construction of six new FIB bridges and a new Category 2 two-span curved steel plate girder flyover ramp that will provide direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involves the construction of noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, ITS infrastructure, landscaping, and a new bicycle path along NW 12th Street. There is also infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Avenue to SR 826 and SR 836. Construction: \$66 million.
- **CEI Services for SR 429 (Wekiva Parkway) from North of Kelly Park Road to the Lake County line and east of Plymouth Sorrento Road. Project No. 429-204.** Contract No. 001087. This was a CEI contract that also included new systems interchange between SR 429 and SR 453. Construction: \$79.6 million.

Experience	With A <sup>2</sup>
34 Years	6 Years

## Project Title:

Senior Inspector

## Education:

- Bachelor of Science in Civil Engineering from the University of Pittsburgh in Pittsburgh, PA – Graduated Magna Cum Laude

## Training and Certifications:

- CCTQP TIN # J52521366
- CTQP Concrete Field Technician Level 1
- CTQP Pile Driving Inspection
- CTQP Final Estimates Levels 1 & 2
- CTQP QC Manager
- FDOT Advanced MOT
- ACI Concrete Field-Testing Technician – Grade I
- NECEPT/PA DOT Concrete Field Testing Technician
- NECEPT/PA DOT Bituminous Field Technician
- Radiation Safety Officer Certified (Nuclear Density & Moisture Gauge storage and transportation)
- PA DOT CDS/NextGen Operator Certified



# Eric M. Jenkins, P.E.

- **FDOT District 3 SR 83 (US 331) over Choctawhatchee Bay in Walton County.** This is a Design/Build project for the construction of an additional 2 lane bridge that is approximately two miles long. Now, the northbound traffic uses the new bridge and southbound traffic uses the existing structure. The project also included roadway and drainage improvements, new signage, pavement markings, and construction of a public park on the southern end of the bridge. Construction: \$118.6 million.
- **Water and Sewer Projects in Canfield and Euclid, Ohio.** Mr. Jenkins served as a Construction Inspector. Material Sampling and testing of concrete, bituminous, and aggregate materials for Solar Testing of PA, LLC.
- **Municipal Wastewater Treatment Facility Upgrade and Construction of Sewer Line Extensions.** Contract work included gravity sewers and force mains (installed by open cut and directional drilling), auger bored road crossings, pump station construction, reinforced concrete (SBR tanks, reed beds, building footings, walls, and stairways), bituminous and concrete paving of driveways, erosion and sedimentation controls, clearing and grubbing, seeding and mulching, process piping, process controls, back-up generator installations, and security fencing.
- Various PA DOT and FHWA Highway and Structure Projects including I-80, I-99/PA Rt 26, I-279 (Pittsburgh), US 22/322 (Mifflin & Juanita Counties), PA Rt 8 (Pittsburg).
- Designed PA DOT and Municipal Projects such as bridges, culverts, landfills, sewer lines, equipment and structure foundations, and steel buildings.
- Interstate 80 from Dubois, PA to Clearfield, PA



# Ivan Morejon

Mr. Ivan Morejon has been gaining experience since 2000 on roadway and bridge construction projects and is an exceptionally qualified, experienced and well-rounded Senior Inspector. He has worked on projects for the Florida Department of Transportation (FDOT), Districts Four and Six; the Miami Dade Expressway Authority (MDX); several county entities including the Miami-Dade Aviation Department at the Miami International Airport and various commercial enterprises, and several county entities.

Mr. Morejon is familiar with all aspects of bridge and roadway inspection on FDOT projects including erection of prestressed concrete Florida I-Beams (FIBs) and trapezoidal steel box beams, concrete deck construction, and construction of bridge substructures including pile driving and concrete pouring and forming. He is also experienced in oversight of MSE Walls and drilled shaft operations including shafts for miscellaneous shafts for structures such as overhead sign structures and mast arms. Mr. Morejon is also very experienced with inspection of roadway construction including paving operations, complex Maintenance of Traffic (MOT), drainage, signalization including installation of electrical and fiber conduits and cabling, signing and pavement marking, lighting, concrete flatwork, utility relocations and materials sampling and testing. He is bilingual in English and Spanish. He has been working for A<sup>2</sup> since 2016.

## Relevant Project Experience:

- **South Terminal Expansion and Concourse J at Miami International Airport (MIA) for the Miami-Dade Aviation Department (MDAD).** The South Terminal Program was a major expansion and realignment of the former terminal configuration and consisted of eight major projects: The MIA South Terminal Expansion, MIA Terminal South/Terminal Improvements, Concourse J, H-J Utility and Pavement Project, Concourse H Modifications for International Gates, Concourse H International Head house Demolition and Construction, and MIA H Terminal Improvements and H-J Sewer and Related Work. Construction: \$850 mil.
- **CEI Services for I-95 Express Phase 3A-1 for FDOT District 4.** FM #433108-4-52-10. The scope of this project included widening/reconstruction of I-95 from south of Broward Boulevard to north of Commercial Boulevard including the construction of new Express Lanes. The project included roadway work, the replacement or widening of a number of bridges, complex/multi-phase MOT, drainage, extensive Mechanically Stabilized Earth (MSE) wall construction, noise barrier walls, signalization including drilled shafts and new mast arms, ITS including fiber optic networks, Dynamic Message Signs (DMS) and tolling infrastructure, signing and pavement marking including overhead signs, lighting, utility coordination and other ancillary work. Construction: \$149 million.
- **CEI Services for SR 836 Interchange Modifications at 87th Ave for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange to



Experience	With A <sup>2</sup>
22 Years	8 Years

## Project Title:

Senior Inspector

## Education:

- Civil Construction Technician in Havana, Cuba

## Training and Certifications:

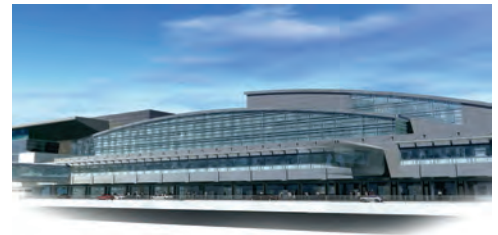
- CTQP TIN #M62540071
- CTQP Asphalt Paving Technician Levels 1 & 2
- CTQP Concrete Field Technician Levels 1 & 2
- CTQP Earthwork Construction Insp Levels 1 & 2
- CTQP Drilled Shaft Inspection
- CTQP Pile Driving Inspection
- CTQP Final Estimates Level 1
- ACI Concrete Field-Testing Tech Grade 1
- ACI CTCI
- FDOT Intermediate MOT
- Troxler Nuclear Gauge Safety Training Certification
- Troxler HazMat Certification
- IMSA Traffic Signal Inspector Level 1
- IMSA Traffic Signal Technician Level 1
- PTI Level 1 Multistrand & Grouted PT Installation
- Critical Structures Construction Issues
- FDOT MSE Wall
- FDOT Auger Cast Pile
- FDEP Qualified Stormwater



# Ivan Morejon

enhance the overall operation of the system. The project included improvements to the mainline and existing ramps and improvements to the NW 87th Avenue and NW 12th Street. The project included the construction of a new flyover ramp that provides direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involved the construction of noise barrier walls, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also Infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Avenue to SR 826 and SR 836. Construction: \$66 million.

- CEI Services for the Design-Build SR 836 Operational, Capacity and Interchange Improvements for MDX.** The scope included retrofitting the existing facility with overall improvements as described in the State Environmental Impact Report (SEIR) including roadway widening/reconstruction and construction of new bridges and widening of existing structures. The project also involved improvements from west of NW 57th Avenue to NW 17th Ave including construction/ reconstruction of retaining walls and gravity walls and the existing drainage system, and detention/retention areas, relocation of the existing MDX Fiber optic line and ITS components, replacement/relocation of Open Road Tolling (ORT) Gantries, replacement of overhead DMS structures, replacement of the roadway lighting system, installation of new cantilever and overhead sign structures, and roadway enhancements to improve safety and reduce congestion. Construction: \$149.6 million.
- CEI Services for I-75 Express Lanes Project for FDOT District Four.** The project extended 15 miles along the I-75 corridor from NW 170th Street in Miami-Dade County to I-595 in Broward County and included four segments. In addition to widening and reconstruction, the scope included express lane direct connections to I-595 Express, Palmetto Express, and the Florida Turnpike (HEFT). Work included bridge/flyover construction, excavation and earthwork, paving operations, complex multi-phase MOT, ITS/tolling systems, signing and pavement markings including overhead signs and gantries, lighting, sound barrier walls, and detailed emergency response provisions. Construction: \$485 million.
- FDOT District 6 SR 826 & SR 836 Roadway Improvements from Flagler Street to NW 25th Street.** Mr. Morejon served as the Head Quality Control (QC) Inspector and was responsible for scheduling and oversight of all the earthwork operations. He also served as a material testing technician for the embankment subgrade base, pipe installation, backfill, base inspections, MSE walls, including coordinating density log book revisions with the FDOT representative. His QC oversight included asphalt operation, concrete testing and inspection, drilled shaft log, and the QC density log books.





# Michael James Collins

Mr. Michael Collins has been working in the construction industry since 1984. He is certified as a Building Inspector by both the Southern Building Code of Congress & ICC and the State of Florida. He has gained experience by working on projects for the Orlando International Airport, the Central Florida Expressway Authority (CFX), the Air Force at Cape Canaveral, FDOT's Turnpike District, and Miami-Dade County School Board.

## Relevant Project Experience:

- **South Terminal Complex (STC) #3 at the Orlando International Airport for the Greater Orlando Aviation Authority (GOAA).** The contract included the overview of structural steel, pre-cast, supremal roofing, exterior metal panels & trim, window system (curtain wall), ceramic tile, terrazzo flooring, carpet, and interior glazing for Airside Terminal Complex, CEP & EPG. Other projects include the BP447 Terminal Renovation at Orlando International Airport. Work consisted of total renovation of the main terminal ticket counters and arrival areas. Construction: \$3.1 billion.
- **LC25 Cape Canaveral Air Force Station on a new missile training facility for NOTU.** The contract included the modification of the existing Polaris launch complex for submarine missile launch training. The scope of work involved concrete, structural steel, electrical (high and low voltage), fire protection, HVAC systems, and security systems.
- **FDOT Design/Build I-75 (Alley) MM 63 Rest Area South CEI Services for FDOT District 1.** The project included placing a larger Rest Area facility at MM63 as well as a Public Safety Center, Two Recreational Access areas into the Big Cypress National Preserve and the upgrading of existing Water and Wastewater Treatment Plants. This project required coordination between the FDOT, Collier County and the National Park Service who are all stakeholders. Construction: \$9.7 million.
- **SR 417/Boggy Creek Interchange in for the Central Florida Expressway Authority (CFX).** This project encompassed 2.98 miles of construction along SR 417 mainline. The SR 417 Interchange at Boggy Creek provided connection to the South Access Road of the Orlando International Airport (OIA). The project included the widening and construction of seven bridges including four post-tensioned concrete box girders flyovers and the MSE wall panels. Construction: \$85,000,000.
- **Capital Improvement Projects for Manas Air Base in Kyrgyzstan and Kandahar Air Base in Afghanistan.** Mr. Collins was working as a Construction Manager/Construction Inspector. He also provided construction oversight at eight Forward Operating Bases within the southern Afghan Theater.
- **Orlando Orange County Expressway Authority's CEI Services for SR-528 and Narcoosee Interchange Improvements and the Beachline Main Toll Plaza Conversion Projects.** Mr. Collins served as the Building Inspector.



Experience	With A <sup>2</sup>
38 Years	2 Years

## Project Title:

Senior Threshold/Building Inspector

## Education:

- Brevard Community College in Melbourne, Florida (38 credits towards an Electrical Technology degree)
- Tallahassee Community College in Tallahassee, Florida

## Training and Certifications:

- Certified Building Inspector (Southern Building Code of Congress & ICC)
- State of Florida Certified Building Inspector
- ACI Inspector I
- Certification of Nuclear Density Gauges
- Certified Structural Masonry Inspector
- Electrical Inspectors Training Course (42 hours)
- Storm water Management Inspector (# 16418)
- Airfield Pavement Inspection Training course (16hr)
- Builders 'A' School - US Navy

# Michael James Collins

Construction Amount: \$47,681,457. PB Ref: Steve Wigle, P.E., Project Manager (407) 509-8541.

- **Multiple projects at both the Orlando International Airport and CFX.** Mr. Collins served as a Senior Inspector. Current cost of construction to date over \$750 million.
- **EELV Launch complex 41 at Cape Canaveral Air Force Station.** Mr. Collins served as a Quality Engineer. His general duties included, but were not limited to, on-site inspection for quality control and quantities required for job completion; review of all shop drawings and product data for compliance with job specifications; scheduling and conducting Prework meetings with all civil, architectural, and structural subcontractors prior to the start of any work. Construction: \$294 million.
- **Facility Improvements of the Orlando International Airport** - Specific projects included, but not limited to; BP208 (\$8 million), BP219/222 (\$22 million), BP213 (\$10 million), BP214 (\$20 million), BP258 (\$4.5 million), BP261 (\$1.5 million), BP262 (\$900 K), H40 (\$500 K), H41 (\$150 K). The projects listed above consisted of 12 new escalators (BP213), expansion of existing (52 ea.) ticket counters and new ticketing area (46 ea.) along with the upgrade of existing baggage handling system (BP222, 219 & 214) and installation of new automated sortation system for all of "A" side in the terminal. It also included the complete building package for a new airfield fire station (BP206), along with a new roadway and utilities for the airport expansion (H40, H41).
- **Construction of a main line toll facility** (Admin Bldg. 3769 sq ft, 161 LF tunnel and 6 lane toll booth islands) for Florida's turnpike at Southern Connector I-4 and US 192, and Dart Blvd (Admin Bldg. 2556 sq ft and 2-3 lane toll booth islands), also for Florida's turnpike.
- **Florida's Turnpike compiled and tracked shop drawings and warranty submittals.** Processed Contractors request for information, progress pay estimates for building and requests for pre-payment of stockpiled materials. Provided engineering estimates for added work to be used in negotiations. Represented the turnpike in all matters with the Contractors, Subcontractors, Department of General Services, State Fire Marshall's Office, etc.
- **Renovation/addition to Miami Southridge Senior High School.** Mr. Collins served as Project Manager. Construction Cost: \$7 million.







# JOHNNY MARIN

CEI SENIOR INSPECTOR



## EDUCATION:

BS, Civil Engineering FL  
Int'l Univ., 2010

## EXPERIENCE: 12 YRS.

### YRS AT H2R: 6

## CERTIFICATIONS:

TIN No. M65042183

QC Manager

PCI L1 & L2

ACI - Concrete Transportation  
Construction Inspector (2022)

FDOT Maintenance of Traffic  
Advanced Training: No. 13860  
(2020)

Qualified Sampler Technician (2022)  
Asphalt Paving Tech - L1 & L2 (2020)

Asphalt Plant Tech - L1 & L2 (2023)

Concrete Field Technician - L1 (2021)

Concrete Lab Technician - L1 (2022)

Earthwork Construction Inspection -  
Level 1 (2021)

Earthwork Construction Inspection -  
Level 2 (2025)

Pile Driving Inspection (2022)  
Drilled Shaft (2023)

Auger Cast Pile (2021)

Final Estimates - Level 1 and 2 (2025)

ACI Concrete Field Testing  
Technician - Grade I (2021)

ACI Concrete Strength Testing Tech  
(2022)

ACI Aggregate Base Testing Tech  
(2022)

Nuclear Gauge Safety Certification  
Radiation Safety Officer Certification  
IMSA-Sign & Paving Markings  
Technician Level 1

IMSA- Traffic Signal Tech L1 & L2

IMSA- Traffic Signal Inspector Level 1

10-Hour OSHA Construction Safety  
Training, ClickSafety & Lift Truck

Safety Course, Pulse America, Inc.,  
2015 Florida Stormwater, Erosion

and Sedimentation Control Training  
and Certification Program for

Inspectors and Contractors

A unique skillset as Laboratory Manager and Senior CEI Inspector for various civil projects, responsible for conducting geotechnical inspections understanding and working with soil and rock, underground water, site and structural conditions, as well as roadway and bridge construction. Has put his numerous qualifications and certifications and experience to good use, working on various projects in water resources, transportation, and specialty geotechnical services such as cut-off wall, deep soil mix, and CSM projects, in the private, state, and federal markets. His attention to detail as resulted in Johnny's services being requested on projects across Florida and outside of the state as a senior inspection lead. Also responsible for laboratory testing services, including sampling, testing, observing, and documenting results. Johnny's awareness of contractor progress, handling of deficiencies, various specifications, protocols, and attention to detail makes him an idea construction manager for transportation and large civil works projects.

## **MATERIALS ENGINEERING MANAGEMENT – VARIOUS LOCATIONS, FL / FDOT FLORIDA'S TURNPIKE ENTERPRISE, (2011 – 2012) Tom Wilke (407) 264-3190.**

Performed various inspection services for Florida Turnpike service plazas reconstruction projects. Our firm's CEI scope includes typical construction inspections, soils and concrete materials testing, and soils and concrete quality control as it relates to the site civil construction. The scope also includes performing the standard FDOT materials testing for soils and concrete related to the vertical construction elements of the project.

## **TURNPIKE SERVICE PLAZAS RECONSTRUCTION MATERIALS ENGINEERING MANAGEMENT VARIOUS LOCATIONS, FL / FDOT FLORIDA'S TURNPIKE ENTERPRISE, (2014 – 2018) Tom Wilke (407) 264-3190.**

CEI Field and Laboratory Technician assisting with construction engineering and inspection services for Florida Turnpike service plazas reconstruction projects.

## **MATERIALS TESTING & CONSTRUCTION SUPPORT – VARIOUS LOCATIONS & FDOT D/W CONTRACTS, FL (2011 – 2014), Craig Dunkelberger (771) 343-9787.**

Field and Laboratory Geotechnical Technician providing asphalt plant verification testing and construction materials testing services, as well quality assurance of deep foundation on bridges founded on both drilled shafts and pilings.

## **FDOT D4 BRIDGES OF THE ISLES BRIDGE REPLACEMENTS DESIGN-BUILD 30717-1-52-01, 230718-1-52-01, 230719-1-52-01, 230720-1-52-01, 423469-1-52-01 FORT LAUDERDALE, FL (2013 – 2016) Bruce McDonald, MCM (305) 541-0000**

Engineer responsible for the collection and analysis of dynamic pile test data and analysis using a Pile Driving Analyzer for several bridges in Fort Lauderdale. Also performed vibration monitoring and pile inspection services.

## **FORT LAUDERDALE – HOLLYWOOD INTERNATIONAL AIRPORT RUNWAY 9R/27L EXTENSION – FORT LAUDERDALE, FL / BROWARD COUNTY AVIATION, (2012-2015) Gavin Lichthardt (954) 733-4211**

Field inspector and Laboratory Manager assisting with pile driving inspection for the design-build team for the Runway 9R/27L and Taxiway expansion. Also performed dynamic testing for this project, which contained nearly 3,000 24-inch PSC piles.



**NORRIS CUT TUNNEL – MIAMI-DADE CTY / NICHOLSON CONSTRUCTION, (2014), Charles Bartlett (727) 223-5979**

Performed services for the MDWASD's Norris Cut Tunnel Project, working as a geotechnical subconsultant. Supported both soil mix design and DSM execution which is required to construct the TBM exit pit at Fisher Island. Tasks for this phase of work includes specialty geotechnical engineering and field services including soil-cement coring, laboratory testing, and other services including construction quality control and in-situ permeability testing. Acted as field engineer, logging the drilling activities, performing in-situ permeability tests, and downhole camera imaging.

**GENERAL ENGINEERING SERVICES FOR VARIOUS PROJECTS E15-PWWM-08, MIAMI-DADE COUNTY, FL (2015 – 2018), Carlos LaVista (305) 375-4660 (Also supported renewed 2019 contract)**

Field Inspector as well as laboratory manager assisting with soils, foundations, and geotechnical testing services for this countywide contract. Performed various concrete and earthwork inspections to ensure projects (including roadway projects with lengthy corridors) were being constructed in accordance with plans and specifications.

**NW 21<sup>ST</sup> AVE PEDESTRIAN BRIDGE OVER C-13 CANAL 433889,436685, and 437847-1-62-01 (CA339 – CEI FOR MULTIPLE BROWARD CTY PROJECTS) BROWARD COUNTY, FL / FDOT D4, (2018 – Present) Matt May (954) 940-7519**

Performed pile driving inspections and recorded the test pile driving process in accordance with CPAM.

**C.W. BILL YOUNG REGIONAL RESERVOIR RENOVATION DESIGN-BUILD – TAMPA, FL / TAMPA BAY WATER, (2011 – 2014) Mike Connor (Kiewit) (561) 289-5780**

Inspector for the renovation of an aboveground, off-stream reservoir located in Tampa, Florida. The reservoir has a storage capacity of 15.5 Bgal and is used to supplement demand when available surface water withdrawals are limited. Performed geotechnical field services including piezometer and inclinometer instrumentation and field data collection.

**ODEBRECHT / HERBERT HOOVER DIKE (HHD) CULVERTS 1/1A – MOOREHAVEN, FL / USACE & ODEBRECHT CONSTRUCTION, (2011 – 2015), Gustavo Silveira (305) 606-7666**

Senior Inspector performing various inspection and testing for earthwork on the levee embankment, drain sand layers, concrete inspections, on site materials testing, and auger-cast pile foundation inspection which support the new water control structures on Herbert Hoover Dike. Also performed steel reinforcement inspections per USACE CTCI requirements.

**C-44 RESERVIOR & STA – MARTIN COUNTY, FL / USACE, (2016 – 2021) Larry Bowar, Barnard, (406) 581-4504**

Senior Inspector for this new above-ground reservoir and STA project, which is the primary component of the Indian River Lagoon-South project, which is a key element of the Comprehensive Everglades Restoration Program. The C-44 Reservoir and Stormwater Treatment Area is the first component of the multi-billion-dollar Indian River Lagoon-South project. The reservoir component will hold up to 50,600 acre-feet, or 16 billion gallons, of water at an average depth of 15 feet. Performed inspections for various features of work of the new dam and logged exploratory borings.

**STA 1W EXPANSION #2 – PALM BEACH CTY, FL / SFWMD (2020 – Present), Joseph P. Alai, P.E. (Thalle) (772) 619-5351**

Third party QC Manager providing geotechnical services for the Expansion #2 area consisting of approximately 2,071-acres of new STA connected to the existing Stormwater Treatment Area 1 West (STA 1W) complex with a new connection canal to provide additional water quality treatment to the western and eastern flow-ways of STA 1W. Responsible for daily QC reports review and ensure proper scheduling of preparatory scope of work. Attend preparatory meetings and follow-up inspections at start of the work. Initiate and maintain QC records. Investigate research, define, and isolate quality concerns and participate in their resolution and/or correction.

**NORTH COUNTY SATELLITE SITE CEI SERVICES– SOLID WASTE, PINELLAS CTY, FL, (2019 – 2020) Wesley Merritt, Project Coordinator (727) 692-9425** CEI Project Inspector and Administrator responsible for progress meetings, pay items, and inspection for various project features for this County facility, including pump station, control building, MES, roads, water and storm lines, ponds, asphalt, pipe, structures, sodding, curbs, gutters, and drainage.

**WESTWINDS DRIVE BRIDGE REPLACEMENT, PINELLAS COUNTY, FL FL (2020 - PRESENT), Mark Demyan (727) 282-4519**

CEI Senior Inspector - Pinellas County Public Works, through the County's Capital Improvement Program, is replacing the aging bridge on Westwinds Drive over the Westwinds Canal in Palm Harbor. Sidewalks, foundations inspections, bridge, roadway, earthwork, concrete, miscellaneous, paint, drainage and sensitive MOT considerations.



#### EDUCATION:

Spanish River High School, Boca Raton, FL

#### EXPERIENCE: 18 YRS

#### YRS AT H2R: 5 YRS

#### CERTIFICATIONS:

**TIN No. S426293824050**

FDOT Construction Training Qualification Program (CTQP)

Concrete Field Technician

Level 1: No. S42629382 (2021)

Drilled Shaft Inspection:

No. S42629382 (2026)

Earthwork Const Inspection

Level 1: No. S42629382 (2025)

Level 2: No. S42629382 (2025)

Asphalt Paving Technician

Level 1: No. S42629382 (2020)

Level 2: No. S42629382 (2021)

Pile Driving Inspection:

No. S42629382 (2022)

ACI Concrete Field Testing

Technician - Grade I: No.

01016735 (2021)

Nuclear Safety Certification

(2024)

#### Continuing Education:

U.S. Department of Transportation (U.S. DOT) and International Air Transport Association (IATA) HAZMAT Certification Training, Troxler Electronic Laboratories, 2015

## GIAFRANCO M. SALAZAR

CEI SENIOR INSPECTOR

Senior Inspector & Laboratory Technician responsible for onsite construction inspections and the sampling, testing, and recording of results for various construction materials serving in both Quality Control and Quality Assurance roles for Federal, State, Local, and Private Entities. Knowledgeable in many construction processes, from concrete pours, rebar inspection, to earthwork, as well as applicable testing standards (both field and laboratory). Highly experienced in the application of project specifications to construction efforts to ensure compliance, and to document results accordingly.

**S.R. 821, HOMESTEAD EXTENSION OF FLORIDA'S TURNPIKE (HEFT) WIDENING FROM NORTH OF SW 72ND STREET TO NORTH OF SW 40TH STREET DESIGN-BUILD SERVICES, MIAMI-DADE COUNTY, FL, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), FLORIDA'S TURNPIKE ENTERPRISE (FTE).**

Senior Inspector for this design-build project, which includes 18-inch prestressed-concrete piles and micropiles along with mechanically stabilized earth (MSE) and sound walls. Vibration and settlement have created issues with shallow foundation-supported bridges and certain nearby structures. Improvements include the widening of the HEFT to three general-purpose lanes and two express lanes in each direction; replacing the mainline toll facilities with new all-electronic toll; constructing a new northbound, two-lane exit ramp to Bird Road; removing an old bridge and constructing a new bridge; converting a two-lane frontage road with controlled access; and milling and resurfacing the highway.

**HEFT ALL-ELECTRONIC TOLL FACILITY, PHASE 3, MIAMI, FL, FDOT, FLORIDA'S TURNPIKE ENTERPRISE.**

Field inspection and Laboratory Technician responsible for quality control testing of earthwork and concrete for work on the conversion of the mainline and ramp toll plazas on the northern Homestead Extension of Florida's Turnpike (HEFT) to an all-electronic toll facility. Also performed inspections of deep foundations including drilled shafts and driven piles. Project included design-build services and modifications to mainline toll plazas and 16 ramp toll plazas, including demolition, grading, paving, maintenance of traffic, signing and pavement markings, intelligent transportation system (ITS) preservation, lighting modifications, drainage modifications, toll plaza fiber-optic connections, toll equipment structure installation, and permitting.

**DISTRICTWIDE GEOTECHNICAL ENGINEERING AND MATERIALS TESTING, MIAMI-DADE COUNTY, FL, MIAMI DADE COUNTY PUBLIC WORKS.**

Laboratory, Field Technician, and construction inspection for this multiyear contract that involved work orders on multiple projects acting as Owner's representative for several projects across several County Departments, including the Water-Sewer Department, Parks and Recreation, and the Internal Services Department. Projects involved subsurface investigations, construction quality assurance, materials and soils laboratory testing, geotechnical recommendations, and design.

**C.W. BILL YOUNG REGIONAL RESERVOIR DESIGN-BUILD, TAMPA, HILLSBOROUGH COUNTY, FL, TAMPA BAY WATER.** Senior Inspector for the renovation of an aboveground, off-stream reservoir located in Tampa, Florida. The reservoir has a storage capacity of 15.5 Bgal and is used to supplement demand when available surface water withdrawals are

limited. Cracks were observed in the soil-cement liner in 2006 and have become more extensive, causing poor performance and requiring significant operational and maintenance efforts. Our firm designed a renovation of the reservoir, which includes excavation of the soil wedge, removal of the existing geomembrane, placement of additional embankment on the existing embankment, a new geomembrane, a gravel drain, and construction of stair-step soil-cement over the entire length of the upstream slope.

**FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT RUNWAY 9R/27L EXTENSION, FORT LAUDERDALE, FL, BROWARD COUNTY AVIATION DEPARTMENT.**

Inspector assisting with pile driving inspection for the Runway 9R/27L expansion design-build project. The runway extends 8,000 feet and cross over U.S. Route 1, Florida East Coast Railway, and Perimeter Road. The foundations for the bridges associated with this project include approximately 3000 driven piles. This project is a critical component of the Fort Lauderdale-Hollywood International Airport's \$791 million expansion program, which is aimed to increase airport capacity, improve the air traffic system, and accommodate larger passenger aircrafts.

**NW 25TH ST DRILLED SHAFTS, MIAMI, FL, FDOT D6**

Drilled Shaft Inspector during the construction phase responsible for inspecting the installations of non-redundant drilled-shaft foundations and providing a final drilled-shaft log to the project engineer.

**QUALITY ASSURANCE AND MATERIALS SAMPLING ID/IQ, BAKER KLEIN/USACE, VARIOUS SITES, FL, USACE**

Field Technician performing various field testing and sampling activities at the direction of the Government for the purposes of Quality Assurance and testing for soils and concrete, which include both field and laboratory tests (ongoing).

**CONSTRUCTION ENGINEERING AND INSPECTION SERVICES, INNER-CITY TRANSIT LINE, FL, CONFIDENTIAL CLIENT**

Field Inspector for work on a 2.4-mile, elevated, double-track heavy rail extension of the existing transit system, connecting a transportation hub to an existing elevated guideway. Testing included the full range of standard soils tests to include proctors, Limerock Bearing Ratios, sieve analysis, limits, organics content, and compressive strength of concrete tests. Ensured compliance.

**ON-CALL GEOTECHNICAL CONTRACT FOR SFWMD, MULTIPLE LOCATIONS, FL, SFWMD**

Construction Inspector performing various field tests and inspections on multiple civil works projects. Projects include the East Coast Protection Levee, L-8, and hundreds of pre-cast concrete culvert replacements throughout the District as part of continuing services contracts for CEI.

**ODEBRECHT/HERBERT HOOVER DIKE (HHD) CULVERTS 1/1A, ODEBRECHT CONSTRUCTION, INC., MOOREHAVEN, FL, USACE**

Senior Inspector performing various inspection and testing for earthwork on the levee embankment, drain sand layers, concrete inspections, on site materials testing, and auger-cast pile foundation inspection which support the new water control structures on Herbert Hoover Dike. (2011-2016)

**PORT OF MIAMI TUNNEL, MIAMI-DADE COUNTY, FL, FDOT**

Drill crew helper for this major construction project in Miami, Florida working for Malcolm Drilling and others. The project is a 0.75-mile-long split portal automotive traffic tunnel connecting the MacArthur Causeway on Watson Island and the Port of Miami on Dodge Island, as well as road improvements around the port of Miami. Work on the project involved downhole camera and field permeability testing on the wall of the tunnel. The project also required unconfined strength on soil cement and a triaxial test on soil, and the quality of the verification core samples obtained was critical to the success of the tunneling operation.

**C-44 RESERVOIR/STA PROJECT CONTRACT NO. 2, MARTIN COUNTY, FL, U.S. ARMY CORPS OF ENGINEERS (USACE), JACKSONVILLE DISTRICT.**

Senior Inspector responsible for high-level inspections of nearly all features of work which exist at new above-ground reservoir and STA project, which is the primary component of the Indian River Lagoon-South project, which in turn is a key element of the Comprehensive Everglades Restoration Program. The Indian River Lagoon is considered the most biologically diverse estuarine system in the continental United States and is home to more than 3,000 species of plants and animals. The C-44 Reservoir and Stormwater Treatment Area is the first component of the multi-billion-dollar Indian River Lagoon-South project. The project is designed to capture 65 percent of the average annual stormwater runoff in the C-44 basin. The reservoir component will hold up to 50,600 acre-feet, or 16 billion gallons, of water at an average depth of 15 feet.



# THE CORRADINO GROUP

## YEARS OF EXPERIENCE

20

## EDUCATION

Seminole Community College,  
Stanford, FL, 2002-2003

**TIN ID/CTQP No.:** W23050177

## CTQP QUALIFICATIONS

Concrete Field Technician 1 & 2  
Drilled Shaft  
Earthwork 1 & 2  
Final Estimates 1 & 2  
Pile Driving  
Grouting Technician 1  
Post-Tensioning Technician 2

## CERTIFICATION

ACI Concrete Field-Testing  
Technician Grade 1  
ACI Concrete Transportation  
Construction Inspector  
Troxler Hazmat and Radiation  
Safety Course  
MOT Intermediate  
DEP Storm Water Management  
Inspection

## KEVIN A. "TONY" WESCOTT

Senior Inspector

Tony brings over 20 years experience in construction inspection from a wide range of projects across the State of Florida. His project experience encompasses several major interstate expansions, a variety of bridge projects that included Florida I-Beam, Steel I-Beam and Tub Girder structures, structural and cast-in-place concrete construction and pile driving inspection.

## EXPERIENCE

**09/2015 – Present: I-4 Ultimate Public, Private, Partnership Project (FM No. 432193-1-52-01), \$2.3B, Structures Compliance Specialist.** Project consists of 21 miles of intrastate reconstruction, multiple interchange replacements, local roadway reconstruction, 150+ bridge reconstruction/replacements, ITS, Toll Facilities, Signalization, Lighting, Drainage, Utility Relocations and other roadway features. Work included new flyovers and ramps connecting to I-4 to SR 408 and Florida's Turnpike. Responsible for inspections for conformance of multiple bridges (steel/concrete piling, steel/concrete superstructure, Post-Tension Structural Concrete, Category 2, Plate/Box Curved Steel Girder) and temporary critical walls (MSE, Helical Anchor Walling System). **Reference: FDOT: Paul Wabi, PE, 386.279.5504; Loreen Bobo, PE, 386.943.5476**

**03/2014 - 09/2015: SR-9B/I-95 Phase 2 (FM No. 213304-3-52-01), \$158 Million, Senior Bridge Inspector.** Project consists of 8 new bridges along 2.5 stretch of new construction to 9B east by-pass around Jacksonville, Florida, I Beam bridges including major bridges over I 95 and US 1/ FEC Railroad. Spread footing, pile driving, substructure and superstructure inspection. **Reference: FDOT: Jeff Williams, 386.312.4831**

**07/2013 - 03/2014: I-4 and Turnpike Interchange Widening (FM Nos. 429331/429332-1-52-01), \$10.5M, Senior Bridge Inspector.** Project consists of widening of ramps from the Turnpike to Interstate 4 including addition of 1 AASHTO Girder beam bridge. Duties included inspection of drainage and roadway construction and overseeing bridge substructure construction. **Reference: Curtis Brown (RS&H, SPE/PA) 904.347.1316**

**08/2012 - 07/2013: Braided Ramp I-4 to Osceola Parkway over US 192 (FM No. 416518-1-52-01), \$10.3M, Senior Bridge Inspector.** Complex category 2 steel girder saddle bent bridge and MSE walls. Duties included inspection of Bridge erection and construction including skidmore testing with daily torque inspection. Substructure and superstructure concrete construction. **Reference: FDOT: Tammie Andrews, 407.687.6234**

**11/2011 - 07/2012: OOCEA SR-429 Extension from Boy Scout Rd to US-441 (Project No. 429-201), \$53.7M, Senior Bridge Inspector.** Project consists of 9 bridges, 3.5 miles of new roadway construction, drainage, JPA utilities, MSE walls and 3 ponds. Duties included inspection of Pile Driving activities as well as erection and inspection of bridge construction including torque and skidmore testing for heavy steel bridges. 7 AASHTO girder and 2 steel I Beam girder bridges.

**08/2010 - 11/2011: I-595 Express Corridor Improvements Public, Private, Partnership Project (FM No. 420809-3-52-01), \$1.2B, Senior Bridge Inspector.** This Public, Private Partnership (P3) Project involved the construction of reversible lanes in the median of the I-595 corridor and interchange improvements from the Sawgrass Expressway to I-95. The overall project bridge construction is divided into existing widening in the median of I-595 and interchange with US 441. The bridge construction includes either AASHTO steel I Beam and tub girder super structures, braided ramps, and nine (9) new bridges with AASHTO girders for a total plan construction of 58 bridges. Responsible duties include impact pile driving, inspection for bridge substructure and superstructure, and post tension inspection. **Reference: Scott Case (HNTB, SPE) 954.661.7576**

# THE CORRADINO GROUP

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KEVIN A. WESCOTT · Page 2 of 2

**FDOT D5, TWO 69, I-75 and I-95 Weigh-in-Motion, Mast Arms for 3D Laser**

**FDOT D5, SR 400, St Johns River - Warranty Repairs**

**06/2010 - 08/2010: US-92 Milling and Resurfacing Project, Daytona Beach, FL Volusia County, Senior Roadway Inspector:** Duties included visual inspection of milling and resurfacing of structural asphalt, Bonded Friction Course, Structural Concrete, Color concrete designed roadway and Safety Improvements.

**12/2008 - 06/2010: SR-50 Reconstruction from SR-436 to SR-417, - Senior Bridge Inspector.** Project involved the reconstruction of 4 miles of SR 50, highlighted by the construction of a direct flyover bridge on SR 50 over SR 436. The category 2 complex bridge construction involved phased construction of reinforced earth walls, post tensioned substructure footings, columns, caps and steel tub girders. Responsible duties include impact pile driving, steel tub girder erection, post tensioning, cast-in-place concrete for bridge substructure and superstructure, daily torque and skidmore testing with daily reports of construction / site manager accounting for appropriate pay items, weather, and controlling items of work, labor and equipment.

**2007 - 2008: I-95 Reconstruction from SR-528 to Fiske Blvd, Bridge Inspector.** Inspection of Daily Construction related activities pertaining to FDOT projects focusing on bridge widening and reconstruction. Roadway Widening project 12 miles along I-95 from SR528 to Fiske Blvd, Design build project. Verification inspection of roadway, bridge and concrete as well as PCC pavement.

**2006 - 2007: Maitland, FL. CEI Bridge Inspector (While employed with KCCS, Maitland, FL).** Inspection of Daily Construction related activities pertaining to FDOT projects including material and verification testing. Inspection of Bridge Construction including pile driving, on FDOT projects including 4 bridges on grouped projects and 7 miles of 4 lane highway.

**2006 - 2007: CEI Bridge Inspector, KCCS, St. Cloud, FL. FDOT D5, SR 500 Crabgrass Tree RD to Nova Rd**

**2002 - 2006: CQC / QC Inspection, Universal Engineering Sciences, Orlando, FL.** Material testing and inspection as QC for contractors on FDOT projects throughout District 5 including roadway, storm water, and concrete sampling/ testing and inspection. Residential and commercial construction services testing.

# Pedro L. Guevara-Gonzalez

Mr. Pedro Guevara-Gonzalez has been working in the transportation Construction industry in Florida since 2013. Most of his career has been spent working directly for the Florida Department of Transportation. He has experience with testing concrete, drilled shafts, bridge piers, footers, bridge decks, approaching slabs, various types of walls, light pole pilasters, shoulder barrier walls, driveways, sidewalks, pier protectors, and generator pads. He has a special interest in quality control, thinking analytically, collecting data, executing testing, and sampling construction materials.

## Relevant Project Experience:

- **021 CEI Bridge Rehabilitation Contract for FDOT District 6.** This includes bridges over the intercoastal waterway, intracoastal canal, spillway, and Indian Creek Waterway some of which are bascule bridges. Contract: \$7 million.
- **I-95 Express Phase 3A-1 for FDOT D4 (FIN 433108-4-52-01).** The project improvements included extending the existing express lanes north from just south of Broward Boulevard to just north of Commercial Boulevard in Broward County. One lane was added, and the High Occupancy Vehicle (HOV) lane was converted into two express lanes in each direction. Other work included installing Intelligent Transportation System (ITS) and tolling equipment, widening bridges, and installing noise barrier walls at locations along I-95 northbound and southbound between Broward Boulevard and NW 6th Street and I-95 northbound between Powerline Road and Commercial Boulevard. Construction: \$153 million.
- **SR 836 Interchange Modifications at 87th Ave for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Avenue Interchange, which is 3.04 miles, to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps and improvements to the NW 87th Avenue and NW 12th Street. The project included the construction of six new FIB bridges and a new twin steel trapezoidal box girder flyover ramp that provides direct connection from WB NW 12th Street to WB SR 836. In addition, the scope involved the construction of 200,400 noise barriers and MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was 52,032 tons of asphalt. There was also infrastructure for the permanent electronic toll facility located on the EB ramp from NW 87th Ave to SR 826 and SR 836. This was an A+B Project. Construction: \$70.3 million.
- **SR 408/SR 417 Interchange Improvements in Central Florida.** The goal of the project was to reduce peak-time traffic congestion and improve the flow at the intersection. Construction: \$90.7 million.
- **Martin Luther King Expressway Expansion in Virginia.** The Martin Luther

Experience	With A <sup>2</sup>
9 Years	<1 Year

## Project Title:

Inspector

## Training and Certifications:

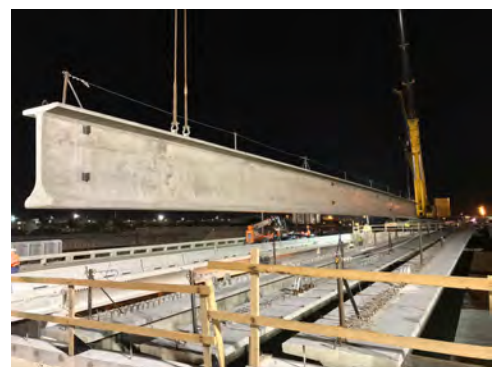
- CTQP TIN G16267292
- CTQP Concrete Field Technician Level 1
- CTQP Earthwork Construction Inspection Level 1
- CTQP Earthwork Construction Inspection Level 2
- FDOT Concrete Field Inspector
- Nuclear Radiation Safety/HAZMAT
- CSX Contractor Certification



# Pedro L. Guevara-Gonzalez



King Expressway is a five-mile-long stretch of US 58 that connects SR 164 and the Midtown Tunnel complex with midtown Portsmouth at London Boulevard. This is a full interchange that opened in March of 2017. Construction: \$300 million.



# THE CORRADINO GROUP

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## YEARS OF EXPERIENCE

10

## EDUCATION

High School Diploma - April 2005

**TIN ID/CTQP No.:** C32055486

## CTQP QUALIFICATIONS

Asphalt Paving Technician 1 & 2  
Concrete Field Technician 1  
Drilled Shaft Inspection  
Earthwork 2  
Final Estimates 1  
QC Manager

## CERTIFICATIONS

ACI Concrete Field Testing Technician  
Aggregate Base Testing Technician/  
Qualified Sampler  
LBR technician (CTQP)  
MOT Intermediate  
Nuclear Gauge Safety Certification  
MSE Wall  
Auger Cast Pile  
IMSA Traffic Signal Inspector Level 2

## MELECIA N. COATES

Inspector

## EXPERIENCE

**05/2019 - Present: CEI Services for I-395/SR-836/I-95 Design-Build Signature Bridge Project (FM Nos. 251688-1, 423126-1, 423126-2, 429300-2-62-01), \$802M, Inspector.**

This \$802 million design-build grouping in downtown Miami includes the complete replacement of 1.4 mi of I-395 from the Midtown Interchange to MacArthur Causeway with high level bridges highlighted by a 1,025 foot signature bridge over Biscayne Blvd. redefining the Miami skyline with its six sweeping arches; Additional capacity will be created on I-395 with a total of three through lanes in each direction and separate connector ramps will be provided for traffic to and from I-95. Community Activity Spaces linked together by a contiguous trail will be constructed below I-395. SR-836 will be enhanced from NW 17th Avenue to the Midtown Interchange. SR-836 will be double-decked, providing drivers with a direct connection to the MacArthur Causeway, and the SR-836 ramp to NB I-95 will be widened to reduce congestion. I-95 will receive all new concrete pavement from NW 8th Street to NW 29th Street, and auxiliary lane will be added to enhance traffic flow. New connector ramps to SR-836 will also be provided. **Reference: FDOT: Jackie Sequeira, PE, 305.986.2551**

**05/2017-05/2019: Inspector, NW 12th Avenue from North of SW 13th Street to NW 1500 Block SR 933.** This project consists off drilled shaft installation, Street lighting installation, removing existing sidewalk and placing new ones, pull boxes installation and wiring and also directional boring. **Reference: Francisco Lledo 305.619.7144**

**10/2016- 05/2017: Inspector, SR. 953 (Lejeune Road/SW 42<sup>nd</sup> Ave) from Almeria Avenue to Majorca Miami Dade County.** Widening of the roadway from one turning lane to two turning lanes with features that includes, lighting, signals, milling, resurfacing, drilled shaft, and relocation of Medjools and Bismarck's. Performed asphalt inspection drainage, French drain and solid pipe, MOT which include lane closures. **Reference: Elisabet River FDOT number 305-968-4079, Hector Fung FDOT P.E number 305.962.4106**

**08/2016 – 10/2016: Inspector, SR 997/Krome Avenue from SW 136<sup>th</sup> Street to Kendall Dr.** This project includes the widening of the roadway from two to four lanes with features that include de-mucking, 3.5 miles of concrete pavement, bridge replacement, new bike path, lighting, signals, and relocation of railroad crossing gates. Performed asphalt inspection sign placement, milling and resurface widening for turn lane. **Reference: Elisabet River FDOT number 305-968-4079, Hector Fung FDOT P.E number 305.962.4106**

**09/2015 – 08/2016: Inspector, SR 997/Krome Avenue (FIN No.24961585201, 24961575201).** Including field coordination with contractor, inspection of de mucking, embankment, lime rock base, asphalt, drainage and lighting. Work in this project consists of construction new south bound, reconstruction of north bound. **Reference: Fernando Del Valle Senior Inspector number 561.856.0226, Brain O'Neill Senior Inspector number 954.540.1303**

**06/2013 – 08/2015: AMEC Engineering, Engineering Technician -** Responsible for concrete testing and plastic properties, and asphalt inspections and nuclear density field compaction tests, also worked at district materials office performing LBR and compaction testing also worked on 595 as quality control technician CEI experience inspecting drainage pipes and asphalt placement for driveways for the city of Collier County in Naples FL. **Reference is Alex Rojas PE number 305.345.7166**

# THE CORRADINO GROUP

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MELECIA COATES · Page 2 of 2

**08/2012 – 06/2013: Allied Engineering, Engineering Technician-** Worked at Ft. Lauderdale Airport performing concrete testing, plastic properties and field compaction testing on soils via nuclear density gauge also worked on 595 as quality control technicians doing the bridge deck concrete pour, also worked on Tamiami Trail doing bridge deck concrete as quality control technician. **Reference: Hector Aguilars Senior Inspector number 305.484.8329**

**07/2011 – 08/2012: CES Consultants, Engineering Technician (work on 595 as quality control technician) -** Responsibilities Include performing drilled shaft testing, asphalt inspections, concrete testing, bridge deck concrete testing that also included temperature monitoring of asphalt trucks and compaction testing of asphalt using density gauge. **Reference: Rafael Rodriguez Senior Inspector number 786.280.9388**

**05/2009 – 07/2011: Wingerter Laboratories, Inc., Soils Lab Technician -** Performing laboratory tests such as sampling aggregates, Sieve Analysis which include finer than No. 200), grain size moisture content, clay lumps and friable particles, liquid and plastic limit, moisture density (proctor), Limerock Bearing Ratio, California Bearing Ratio, specific gravity and absorption of coarse and fine aggregate, unit weight and voids in aggregate, Los Angeles Abrasion , Carbonate Content, Organic Content and impurities (05/09 – 07/11). Engineering Technician - Responsibilities included performing tests in the areas of precast and pre-stressed concrete, grout and masonry testing, soil testing by use of Troxler Nuclear Gauge and by Sand Cone Method, asphaltic concrete inspections, construction materials placement and preparation of reports. Trained in concrete laboratory work including machine operation (07/09-07/11). **Reference: Angel Castro lab manger number is 786.282.5441**



# THE CORRADINO GROUP

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## YEARS OF EXPERIENCE

10

## EDUCATION

AA (Civil Engineering) Miami Dade College, Miami, FL (Present)

**TIN ID/CTQP No.:** Q53511291

## CTQP QUALIFICATIONS

Asphalt Paving 1  
Concrete Field Technician Level 1  
Earthwork 1  
Final Estimates 1

## CERTIFICATIONS

ACI Concrete Field Testing Technician- Grade 1  
Troxler Nuclear Safety Course  
MOT Advanced  
IMSA Traffic Signal Technician 1  
IMSA Traffic Signal Inspector

## CARLOS QUINTANA

Inspector

Carlos brings over ten years of construction inspection experience ranging from road and bridge inspection, ITS, drainage and sitework, and materials testing. Projects that Carlos has worked on include a major interstate expansion project, airport runway construction, roadway and bridge construction, building sitework, and concrete batch plant operations.

## EXPERIENCE

**1/2018 - Present: I-4 Ultimate Public, Private, Partnership Project (FM No. 432193-1-52-01), \$2.3B, Materials Compliance Specialist/Roadway Inspector.** Project consists of 21 miles of intrastate reconstruction, multiple interchange replacements, local roadway reconstruction, 150+ bridge reconstruction/replacements, ITS, Toll Facilities, Signalization, Lighting, Drainage and other roadway features. Work included new flyovers and ramps connecting to I-4 to SR 408 and Florida's Turnpike. Provided owner's testing of earthwork and concrete. **Reference: FDOT: Paul Wabi, PE, 386.279.5504; Loreen Bobo, PE, 386.943.5476**

**10/2016 - 12/2017: Krome Ave Reconstruction from SW 136<sup>th</sup> St to Kendall Dr (FM No. 249614-7-52-01), \$44.0M, Roadway Inspector.** Reconstruction of Krome Ave from two lanes to four lanes. The new roadway will be four lanes divided with paved shoulders on both sides and will be constructed using concrete pavement. Includes two new bridges (one for northbound and one for southbound traffic) across the Black Creek Canal. Adding a shared-use path on the east side of the roadway for bicyclists and pedestrians, installing guardrail

within the median, new drainage structures (French drains and concrete slotted pipes), new traffic lighting, signage and installing traffic signals at the intersections of SR 94/Krome Avenue and SW 136 Street. Mr. Quintana duties includes monitoring the contractors on site construction activities and inspecting materials entering the work to ensure compliance with plans, specifications and special provisions for the construction contract. Maintain detailed records of the contractor's daily operations and events that affect the work, monitoring and inspecting contractor's work zone traffic control plan as well as reviewing modifications to the plan. Perform sampling and testing of component materials and completed work in accordance with the construction contract. **Reference: FDOT: Hector Fung, PE., 305.640.7456, [Hector.fung@dot.state.fl.us](mailto:Hector.fung@dot.state.fl.us)**

**05/2016 – 10/2016: Cemex. I-75.** QC/Concrete Plant Batch Dispatcher responsible for concrete samples on bridge decks and ensuring accuracy of all concrete mix sizes. Additional responsibilities included quoting prices and receiving orders for company products, such as ready-mix concrete, pipes, utility vaults, and septic tanks; Conferring with plant production and yard personnel to establish delivery schedules per factors, such as truck capacities, distances to delivery site, and unloading time; Computing water quantities to be added to each mix of concrete; Using moisture meter to determine moisture content of sand following moisture mix table; Recording quantity of sand, cement, gravel, and water required for each mix on loading ticket; Preparing invoices, relating shipping documents, and assigning drivers for scheduled deliveries; Directing production to cast concrete products per customer specifications.

**01/2016 – 05/2016: Condotte. Palmetto and I 75 Bridges.** Performed quality control on concrete testing and earthwork density testing; Drill shaft concrete barrier wall and bridge testing; Earthwork density testing on all MSE walls and temporary walls.

**01/2015 – 01/2016: NV5 - Technical Engineering & Consulting Solutions. Brickell City Center.** Managed densities and job site progress including drainages, waterline pipes and electrical pipes.

**09/2013 – 01/2015: Professional Service Industries Inc. (PSI). I-95 Express Lane.** Performed concrete testing per ACI handbook on every 50 yards; verified sample cylinders to ensure mid-batch concrete and remaining water was poured.

# THE CORRADINO GROUP

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CARLOS QUINTANA · Page 2 of 2

**06/2012 – 09/2014: Professional Service Industries Inc. (PSI). Miami International Airport.** Performing earthwork for runway and concrete paving, Customer Service, Vibro Replacement Testing, Window Inspections, Coring Testing, Density Testing, Concrete Testing, and Monitoring Concrete/Asphalt.

**Customer Service:** consulted with client regarding specific details to be included at the time the work was performed. Vibro Replacement Inspection: reported on the quantity of materials used by the crane as well as the time frame in which the work was completed. Window Inspections: ensured that windows could withstand the required water pressure and that no holes or gaps existed around the windows. Coring Testing: Drilled samples on asphalt/concrete walls. Density Testing: ensured ground compaction requirements and identified materials. Concrete Testing: Performed concrete testing per ACI handbook on every 50 yards; verified sample cylinders to ensure mid-batch concrete and remaining water was poured. Concrete/Asphalt Monitoring: Inspected the Concrete/Asphalt in accordance to plan specifications. Light-Weight Concrete Pull Test Inspection: ensured the rebar could withstand the required psi strength.

# Robert Moulton, Jr.

Mr. Robert Moulton has been gaining experience on roadway, electrical, signalizations, and in the installation, testing, maintenance, and inspection of telecommunication systems and infrastructures in both military and civilian environments since 1987. The systems encompass radio, microwave, control and data, information technology, wireless, and intelligent transportation. He has gained vast experience on civil projects for the FDOT, FTE, CFX, and MDX. He has been part of A<sup>2</sup> since 2010.

## Relevant Project Experience:

- **CEI Services for the Turnpike Mainline at I-4, Direct Connect Ramps and Resurface Turnpike in Orange County for the Florida Turnpike Enterprise .** This project is a 21-mile make-over of I-4 from west of Kirkman Road in Orange County to east of SR 434 in Seminole County. Construction: \$2.3 billion.
- **CEI Services for SR 836 Interchange Modifications at 87th Ave for Miami Dade Expressway Authority (MDX).** The scope of this project included the reconstruction of the SR 836 Mainline and NW 87th Ave Interchange to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps, improvements to the NW 87th Ave and NW 12th St. The project included the construction of a new flyover ramp that will provide direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involves the construction of noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also Infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Avenue to SR 826 and SR 836. Construction: \$66 million.
- **CEI Services for the Design-Build of SR 836 Operational, Capacity and Interchange Improvements for MDX.** The scope included retrofitting the facility with improvements in line with the State Environmental Impact Report (SEIR). The project also involved improvements from NW 57th Ave to NW 17th Ave including construction/reconstruction of retaining walls and gravity walls, existing drainage system, and detention/retention areas, relocation of the existing MDX Fiber optic line and ITS components, replacement/relocation of ORT Gantries, replacement of overhead DMS sign structure, replacement of roadway lighting system, and installation of new cantilever and overhead sign structures. Construction: \$149.6 million.
- **CEI Services for the Wekiva Parkway Construction for the Central Florida Expressway Authority (CFX).** Work included construction of the new limited access roadway (SR 429) North of Kelly Park Road to the Lake County line and east of Plymouth Sorrento Road and a new systems interchange between SR 429 and SR 453. Construction: \$80 million.
- **SR 417/Boggy Creek Interchange Improvements Phase III for CFX.** This



Experience	With A <sup>2</sup>
31 Years	12 Years

## Project Title:

Senior ITS/Lighting/Signal Inspector

## Training and Certifications:

- TIN #M43576054
- CTQP Earthwork Construction Insp Lev 2
- CTQP Drilled Shaft Inspection
- CTQP Final Estimates Lev 1
- FDOT Intermediate MOT
- IMSA Certified Traffic Signal Inspector Level 1
- IMSA Fiber Optics for ITS Level 2
- Troxler Nuclear Gauge Density
- Critical Structures Construction Issues
- Electronic Principles/Ground Communications Maintenance Schools (1450 Hours)
- Fiber Optic/Category-5 Fabrication & Installation Techniques (40 hrs)
- Electronic Equipment, Standard Installation Practices & Techniques (80 Hours)



# Robert Moulton, Jr.

project encompassed 2.98 miles of construction along SR 417 mainline. The SR 417 Interchange at Boggy Creek provides connection to the South Access Road of the Orlando International Airport (OIA). The project included the widening and construction of seven bridges. Construction: \$82.5 million.

- **Systemwide CEI Services for ITS Projects for CFX.** The project included DCS upgrades, guide signing and sign lighting upgrades, and ramp striping.
- **CEI Services for the SR 112 Infrastructure Modifications for Open Rd Tolling (ORT) & Misc. Improvements for MDX.** This project included the infrastructure necessary to convert SR 112 between NW 21st Street and NW 12th Avenue to an ORT facility, installation and test tolling equipment at each proposed toll location by the MDX Toll System Integrator, demolition of the existing toll plaza, site lighting, ITS system throughout the corridor, signage, milling, overbuild and resurfacing operations on SR 112. Construction: \$15.6 million.
- **CEI Services for SR 417/Boggy Creek Interchange for CFX.** This project encompassed 2.98 miles of construction along SR 417 mainline. The SR 417 Interchange at Boggy Creek provides connection to the South Access Road of the Orlando International Airport (OIA). The project included the widening and construction of seven bridges, four post-tensioned concrete box girders flyovers and the MSE wall panels. Construction: \$82.5 million.
- **CEI Services for the SR-417 Widening from SR-528 to Curry Ford Road for CFX.** This project was 4 miles long and involved widening from 2 lanes in each direction to 3 through lanes and one full length auxiliary lane in each direction. This contract also included the inside widening of bridges over Lee Vista Boulevard, over a mile of precast sound wall and both bridge mounted and overhead sign structures. Construction: \$19 million.
- **MDX's CEI Services for the Design/Build of an eastbound auxiliary lane along SR-836, from West of NW 57th Ave to NW 42nd Ave.** The scope included an outside auxiliary lane construction with bridge widenings at NW 57th Avenue, Tamiami (C-4) Canal and Northwest 45th Avenue, ITS relocation, milling and resurfacing, ramp modifications, guardrail installation, drainage improvements, retaining wall systems, lighting and signage modifications. Construction: \$15 million.
- **FTE Toll System Replacement and FTE ORT Integration**
- **ITS Integration.** I-95 Express Lanes Project, Hotlanes phase 1B. The project scope encompassed installation and testing of Cisco communication switches and Nport device server field devices along I-95 Express North bound corridor.
- **Hurricane Ike Recovery, Galveston, TX, Debris Monitoring for TXDOT**



# Thomas Webb

Mr. Thomas Webb has been working on electrical projects since 1990 when he joined the US Navy Reserve. His first roadway project in Florida was in 1996 and that has been his primary focus since that time. He has gained vast experience on ITS projects over the last 20 years. In 1990 he joined the US Navy Reserve Civil Engineer Corps as a Construction Electrician and retired in 2010 as a Chief Petty Officer. Mr. Webb has been working for A<sup>2</sup> since 2015.

## Relevant Project Experience:

- **CEI Services for I-95 (SR 9) at North I-295 Interchange Design/Build Project for FDOT District 2.** The interchange is being modernized and reconfigured to increase capacity and improve traffic flow and safety. The scope includes minor ramp improvements and auxiliary lanes are being added to I-95. The Cole Road bridge over I-95 is also being replaced. There is also bridge replacement/construction and ramp reconstruction along US 17. Mr. Webb is a Senior ITS Inspector. Construction: \$176.8 million.
- **CEI Services for SR 16 Lighting Improvements for FDOT District 2.** The project included the construction of conventional precast light pole bases and spread footer light pole foundations for the installation of 371 standard light poles. Other incident work includes 40,000 LF of open trench and 44,000 LF of directional bore conduit, 591 pull boxes, 18 junction boxes, bridge underdeck lighting at the I-95 overpass.
- **CEI Services for I-295/SR 9A Managed Lanes (Buckman Bridge to I-95) for FDOT District 2.** This is a 5-mile Design/Build project for the I-295 express lanes addition including a utility phase. Mr. Webb's inspection duties include construction of 57 light poles installed in the median and temporary light poles along the outside shoulder. Light poles were installed on a combination of spread footers and concrete bases. Other inspection elements include 5 new load centers, 2 refurbished load centers, 24 underdeck lights, 9 new high mast lights, 1,346 LF of bridge mounted conduit, 76,000 LF of conductor, 16 ITS cameras, 10 dynamic message signs (DMS), 43,000 LF of fiber optic cable and OTDR tests and system tests of ITS devices. All work was completed in phases which included intermittent lane and shoulder closures. Construction: \$89 million.
- **Sunrail Commuter Rail from Debary to Orlando for CSX.** This project included the construction of seven train stations along with installation of platform and parking lot lighting, power services and backup (UPS) system, installation of CCTV security camera system, DMS and the inverter system for emergency lighting and the replacement of one traffic signal intersection at the Sanford Station. The fiber optic backbone installation was from Debary Station to Sanford TMC and Sanford TMC to Sand Lake Road Station.



Experience	With A <sup>2</sup>
32 Years	7 Years

## Project Title:

Senior ITS/Lighting/Signal Inspector

## Education:

- High School GED
- AC/DC theory, Florida Community College, Jacksonville
- Foremanship, University of North Florida
- Programmable Logic Controllers NJATC
- High Voltage Cable Splicing and Termination NJATC

## Training and Certifications:

- CTQP TIN# W10083763
- IMSA Fiber Optics Technician Level 1
- IMSA Traffic Signal Inspector
- IMSA Traffic Signal Field Inspection Level II
- IMSA Roadway Lighting Technician Level I
- ATSSA Advanced MOT
- FDOT Technology Resource Awareness (Security) CBT
- Journeyman Electrician Duval County 1988 – Present
- ITS Facility Management System As-Built Deliverable Testing
- "A" card member Journeyman Wireman IBEW
- ITI Boom Truck operator



- **Roadway Widening from Curry Ford Road to SR 528 for the Central Florida Expressway Authority (CFX).** The project included relocation/installation of the fiber optic backbone, roadway lighting relocation, removal of high-mast lighting and replacement with shoulder poles, and the relocation and replacement of Sunpass TMS and CCTV and maintenance/relocation of existing LMS system within the construction zone. Construction: \$19 million.
- **ITS Installation on I-75 from Charlotte/Lee County line to the Broward/Lee County line (96 miles) for FDOT D1.** This project had 79 CCTV cameras, control cabinets and poles, 50 power services, 26 walk-in VMS with cantilever structures, and fiber optic interconnect. The scope also included construction of the FDOT TMC facility at Daniels Parkway.
- **Turnpike ITS from Wildwood to Yeehaw Junction for the FTE.** ITS work included installation of power services and fixed mount CCTV cameras.
- **High-mast lighting replacement on I-75 in Charlotte County, FL.** This project was for the removal and replacement of high-mast lights at three interchanges.
- **Thomas Drive Flyover in Panama City, Florida for FDOT D3.** The project included the installation of electrical services, conventional and bridge mount roadway lighting, and construction of three mast arm traffic signal intersections.
- **Hathaway Bridge Replacement in Panama City, FL for FDOT D3.** The electrical work included power services roadway/bridge lighting and interior maintenance lighting (box girder). ITS work included installation of CCTV poles, cameras and equipment; cantilever structures with front access DMS; and fiber optic interconnect.
- **Pre-pass System for the FDOT.** This project included the installation of mast arm antennae poles, microwave vehicle identification/ confirmation systems, remote equipment, local scale house equipment, and fiber optic or microwave interconnect, vehicle classification and weigh in motion systems, at ten weigh stations and agricultural inspection sites throughout Florida.
- **Installation of numerous traffic signal intersections and roadway lighting projects in Duval County Florida including I-295 Widening and Buckman Bridge Replacement.** This project included the installation of over 700 conventional bridge mount and roadway light poles, three CCTV poles and cameras, and fiber optic interconnections between cameras.







## C. ANDRE RAYMAN, P.S.M., PRESIDENT PROJECT MANAGER



### EDUCATION

Bachelor of Science, Surveying and Mapping, University of Florida, 1988

### CERTIFICATIONS

- State of Florida, Surveying and Mapping, LS #4938

### AFFILIATIONS & AWARDS

- Florida Surveying and Mapping Society Palm Beach Chapter, Vice President (2006-2007), President (2007-2008)
- Florida Association of Cadastral Mappers
- American Congress on Surveying & Mapping
- Forest Hill High School Engineering Academy Adviser (2007-2012)
- FES Mentor Program at Florida Atlantic University (2011-2013)
- Palm Beach County League of Cities, Associate Member (2004-present)
- Florida Atlantic University Geomatics Engineering Advisory Committee, Executive Chair (2010-2016), Board Member (2010-present)

Mr. Rayman is a Registered Land Surveyor in the State of Florida and has over 32 years of experience in the surveying field. He is a fourth generation land surveyor and has been with Engenuity Group since 1988. He is an expert in topographic, boundary, and tree surveys as well as basemaps, right-of-way maps and sketch and descriptions. He has 3 decades of experience in data quality control / quality assurance, collection analyzation, and has used that knowledge and experience to provide our clients with a service tailored to their needs.

### EXPERIENCE

#### Palm Beach County Department of Airports

- Topographic Survey of UPS/Fed Ex loading area- PBIA
- Topographic Survey of Concourse A/B- PBIA
- Topographic Survey of Taxiway "C"- PBIA
- Topographic Survey commercial runway- PBIA
- Topographic Survey of General Aviation Airport- North County
- Glades Airport Main Building & Hangar Boundary Survey & Construction Surveying
- Taxiway F Renovations Construction Surveying- PBIA
- Topographic Survey of Main PBIA Air Cargo Apron
- Construction Surveying for Apron A Expansion- PBIA
- Construction Surveying for Baggage Area B- 1<sup>st</sup> Floor- PBIA

#### City of Hollywood

- Topographic Route Survey of Johnson Street

#### City of Margate

- Topographic Route Survey of Southgate Blvd & Rock Island Road

#### City of Hallandale Beach

- NE 14<sup>th</sup> Street 30" Forcemain Topographic/Route Survey & SUE Services
- Egret Drive to Layne Blvd. 18" Forcemain Tie-In Topographic/Route Survey, Tree Survey, & SUE Services

#### City of Sunrise

- Topographic Survey of Sunrise Lakes Dr traffic circle
- 6691, 6561, & 6665-6671 Sunset Strip Boundary Survey
- 1220 NW 61<sup>st</sup> Avenue Boundary Survey
- Lift Station 210 Sketch & Descriptions

## C. ANDRE RAYMAN, P.S.M., PRESIDENT PROJECT MANAGER



- Celebrate Sunrise Entry Features Topographic Survey
- Citywide Boat Ramp Replacements Program Phase III & IV Topographic Surveys
- NW 29<sup>th</sup> St. Manor Neighborhood Traffic Calming Topographic Survey
- Topographic Survey & Staking for Flamingo/Artesia Linear Park
- Topographic Surveys for Lift Stations 101, 102, 106, 109, 110, 111, 117, 118, & 154
- Topographic & Tree Survey, Title Search & SUE Services for Shenandoah Community Forcemain Relocation
- Boundary, Topographic, & Tree Survey for 3003 N. University Drive
- 60 Weston Road Marquee Signs Survey
- 84<sup>th</sup> Avenue & Springtree Drive Manholes Topographic Survey & SUE Services
- Flamingo Road Public Art Display Topographic & Tree Survey & SUE/GPR Services
- Welleby Park Record Drawing Survey
- Gold Key Villas Sketch & Descriptions & Easement Locations (12)
- Sunrise Lakes Blvd. Bus Stops Field Locations & Sketch & Descriptions

### City of Delray Beach

- Island Drive bridge rehabilitation Topographic Survey
- 196 NW 8<sup>th</sup> Ave. Boundary Survey
- Atlantic Dunes Park Topographic & Boundary Survey
- Urban Core Mobility Concept Design Topographic Survey
- SE 8<sup>th</sup> Court Topographic Survey
- Old Animal Control Site Topographic Survey
- Topographic and Tree Surveys for Area 10 Reclaimed Watermain

### City of Riviera Beach

- Right-of-way maps and parcel maps for Riviera Beach, 13<sup>th</sup> Street, 11<sup>th</sup> Street and Avenue C. (Port of Palm Beach)
- Boundary survey of City Hall
- Sketch and descriptions for access easements for Utility Plant

- Topographic Survey of West 36<sup>th</sup> Street
- Boundary Survey at 1101 W. 13<sup>th</sup> Street
- Topographic Survey of 13<sup>th</sup> Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic Survey of proposed Public Works complex
- Riviera Beach Storm water data collection for GIS
- Topographic Survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23<sup>rd</sup> Street
- Topographic Survey of utility plant for design
- Inner City Golf Youth Museum Boundary, Topographic & Tree Survey

### City of West Palm Beach

- Topographic Survey for Palm Beach Lakes Boulevard
- Topographic Survey for Cumberland Drive
- Topographic Survey Olive Avenue from Quadrille St to 6<sup>th</sup> St
- Boundary, Topographic and Hydrographic Survey of Flagler Drive
- Boundary and Topographic Survey for design at 5 Well Sites
- Bathymetric Survey for Environmental Analyses for Waterfront Facilities
- Specific Purpose Survey of Spruce Avenue from 25<sup>th</sup> Street to 40<sup>th</sup> Street
- Specific Purpose Survey of Old City Hall
- Boundary Survey of WPB Historic Chemical Building
- Rilyn and Russlyn Road Improvements Topographic Survey
- Topographic Survey for Dock Street Force Main Replacement
- Topographic Survey of Parker Ave by Belvedere Rd (580 feet)
- Topographic Survey of Rosemary Ave from Clematis St to 11 St



## JENNIFER C. MALIN, P.S.M. PROJECT SURVEYOR



### EDUCATION

Bachelor of Science, Surveying and Mapping, University of Florida, 2003

### CERTIFICATIONS

- State of Florida, Surveying and Mapping, LS #6667
- Qualified Stormwater Management Inspector

### AFFILIATIONS & AWARDS

- Florida Surveying and Mapping Society member since 2005 (No. 8481)

Mrs. Malin is a Registered Land Surveyor in the State of Florida with over 19 years of experience in the field. She has been working at Engenuity Group, Inc. since 2003 and has a superior understanding of surveying and mapping concerns in South Florida. She is a seasoned AutoCAD Drafter who always produces the highest quality deliverables in a timely manner. Ms. Malin is the Director of our survey department, overseeing every aspect of daily operations.

### EXPERIENCE

#### **Palm Beach County Department of Airports**

- Topographic Survey of UPS/Fed Ex loading area- PBIA
- Topographic Survey of Concourse A/B- PBIA
- Topographic Survey of Taxiway "C"- PBIA
- Topographic Survey commercial runway- PBIA
- Topographic Survey of General Aviation Airport- North County
- Glades Airport Main Building & Hangar Boundary Survey & Construction Surveying
- Taxiway F Renovations Construction Surveying- PBIA
- Topographic Survey of Main PBIA Air Cargo Apron
- Construction Surveying for Apron A Expansion- PBIA
- Construction Surveying for Baggage Area B- 1<sup>st</sup> Floor- PBIA

#### **Broward County Emergency Operations Center**

Ms. Malin served as Project Manager for the preparation of a boundary and topographic survey to facilitate improvements at the Broward Co. EOC. The area surveyed included the bus transfer and maintenance areas, showing rights-

of-ways in the roads. Ms. Malin coordinated with Blood Hound, Inc. to obtain underground utility locations which was presented to the civil engineer and landscape designer.

#### **Village of Wellington, FL**

Since the initial award of our continuing services contract in 1999, Engenuity Group has completed a variety and number of projects for the Village, including the following, which Ms. Malin assisted completing:

- Topographic Survey for Big Blue with Sketch and Descriptions of encroachments
- Topographic Survey for Rustic Ranches
- Topographic Survey for 50<sup>th</sup> Street South
- Underground Utility Locating and Topographic Survey for Watermain Replacement Project
- Topographic Survey Southshore Boulevard Phase III
- Topographic Survey of Big Blue Trace and Paddock Drive
- Topographic Survey of Pierson Road
- Topographic Survey of Fairlane Farms Road
- Topographic Survey of Flying Cow Road
- Topographic & Boundary Survey of Wellington Landings Middle School



- Establish Controls and obtain topographic data of Acme Road Driveway Connection
- Topographic Survey of 130<sup>th</sup> Ave S and 50<sup>th</sup> St S Horse Crossing
- Topographic Survey of Stribling Way & Fairlane Farms Road
- Boundary Survey, Alta Survey, FEMA Certificate of Lake Wellington Professional Center
- Wastewater Treatment Plant Sketch & Description, Topographic, Boundary & Construction Surveys
- Town Center Boardwalk Topographic Survey
- Folkstone Circle from Carlton St. to Yarmouth Ct. Topographic Survey
- Tiger Shark Cove Basketball Courts Topographic Survey
- South Shore Blvd Force Main Replacement Phase 1

#### **Village of Palm Springs**

- Boundary & Topographic Survey of Foxtail Palm Park
- Prepared a Sketch & Description for Cross Street Right-of-Way
- Topographic Survey of Village Property @ 3859 Kirk Road
- Prepared Legal Descriptions for Lift Stations on Lake Worth Rd. & Price St.
- Topographic Survey for 4 Lift Stations included in 2017 Improvements Package
- Topographic Survey for New Sidewalk on Lakewood Road
- Boundary & Topographic Survey for Fitness Pavilion
- Topographic Survey for 4 Lift Stations included in 2018 Improvements Package
- Topographic Survey for Cypress Lane Stormwater Improvements
- Sketch & Descriptions for Lakewood & Coconut Roads
- Palm Springs CRA boundary surveys

- Sabal Palm Parks Restroom Addition Boundary, Topographic & Tree Surveys

#### **City of Riviera Beach**

- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of 13<sup>th</sup> Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23<sup>rd</sup> Street
- Dune Walkover Topographic Survey

#### **Village of Royal Palm Beach**

- Boundary Survey and plat for Golf Course Phase 1, 2 & 3
- Topographic Survey and Asbuilts for Golf Course Lots
- Topographic Survey for Bridge Slope Stabilization at 13 sites
- Topographic Survey for Commons Park Amphitheater
- Construction Staking and Controls for Crestwood Blvd N Streetscape Phase II
- CAD Drafting services 2013-2018

#### **City of Greenacres**

- Original Section Drainage Improvements
- Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue
- Topographic Survey of Raulerson Drive and LWDD L-12 Canal
- Topographic Survey of 57<sup>th</sup> Street
- Sketch and Legal Description of 3 parcels on 10<sup>th</sup> Ave N.
- Sketch of easement and legal description of Liberty Park Elementary School
- Asbuilts and Controls with elevation for Ramblewood Harwich Court Subdivision

## Tab 2: Project Approach

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# 2 Project Approach



# Project Approach

## Managing Multiple Work Authorizations and Projects

As a testament to our understanding and experience at managing multiple Work Authorizations and projects, the A<sup>2</sup> Team completed 57 projects, over the past five years, for the Greater Orlando Aviation Authority, at OIA and ORL, on their prime CEI Services Contract. This experience and knowledge will assist in the development of a unique understanding of BCAD's operations, program, goals and customer service driven mission in order to promote future regional community and airport growth by continuing to provide the traveling public with the capacity and timely flight service as part of the First-Class Service.

We recognize the process of managing multiple Work Authorizations commences from the point of consideration, negotiation and issuance. Each work authorization is given the same level of commitment pertaining to project administration and management, safety, QA/QC and meeting established goals. Our Senior Project Manager will ensure the following steps are continuously adhered to:

A<sup>2</sup> Project Management staff meets with BCAD project specific staff to review project scope;

- A<sup>2</sup> Project Management staff and BCAD Project Manager will review the scope and establish the CEI team for the project;
- Team consideration will always include meeting the DBE and project goals;
- Final review meeting with BCAD to evaluate the A<sup>2</sup> Team scope comments;
- Prompt issuance of proposal by A<sup>2</sup> for the proposed Work Authorization
- Kick-off meeting will be scheduled after the issuance of a Work Authorization to review final scope, schedule and contractor selection status
- A<sup>2</sup> Team will implement all schedule, cost and inspection procedures and controls
- Independently review the QA/QC of the Task Order with other A<sup>2</sup> Team members
- Perform weekly or bi-weekly meetings with the Contractor and ensure BCAD is kept informed of project status, milestones, trends and any concerns
- Perform Monthly recap review with the BCAD Project Manager
- Regularly review status of Work Authorization with the A<sup>2</sup> Project Executive
- Review and manage all reports provided by BCAD including those from the financial consultant

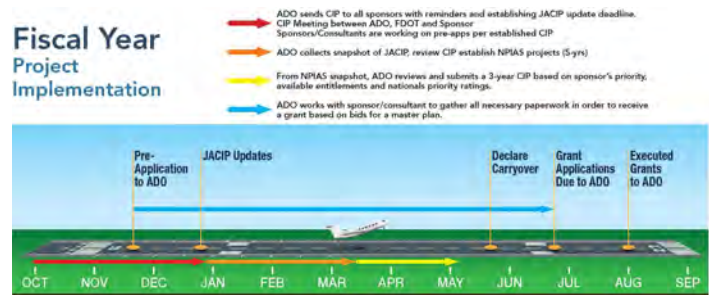
## Flexible and Experienced Staffing

We have learned first-hand that many of the Work Authorization assignments require part-time administration and inspection services due to the nature of the scope or budget. Additionally, project needs change, often as a result of unanticipated conditions or when the scope is adjusted to meet the needs of BCAD. We have the proven ability and flexibility to change with them and to meet the needs of the project and BCAD quickly and efficiently, including deployment of additional staff and resources as needed.

We understand that the success of the any of the BCAD projects starts with the detailed coordination with all the operations. Excellent communications are facilitated by having managers and inspection staff with prior working relationships and experience of airport geography and personnel.

## Grant Funding and Administration Assistance

### FAA Project Funding



FDOT and FAA coordinate grants in Florida through the Joint Automated Capital Improvement Program (JACIP). This process is primarily used to prioritize and synchronize funding. The management and reporting for the grants will have separate parallel processes. We have managed several AIP funding projects every year for the past several cycles in addition to FDOT only funding projects. Managing grant funded projects begins with understanding the timing of the JACIP program and harmonizing the grant approval time table with the BCAD procurement process. The only outstanding question about this program is whether it will be funded in a single year or stretch over two cycles. Based on the current funding environment, we would anticipate approval of the complete amount.

Project tracking for payment especially of changes must be handled with care. We understand that certain items are



# Project Approach

not funding eligible. The most common of these is re-work. FAA and FDOT will not participate in any portion of a change that was avoidable or will require rework of already installed portions of the work. We will perform a comprehensive plan review to identify and address potential re-work.

## Managing and Assigning Sub-Consultants Under this Agreement

After meeting with the BCAD Project Manager and reviewing the project scope, we will identify the required discipline(s) and the project timeline requirements. A<sup>2</sup> Project Management staff will meet internally and assign an A<sup>2</sup> Project Manager based on the scope and workload. Subsequently, we will meet with our Team's subconsultant who is responsible for the specific discipline and identify personnel, manpower requirements, schedule and compose a proposal for the Work Authorization. A<sup>2</sup>'s Project Manager will be responsible oversee and manage the services of the assigned subconsultant ensuring that the Work Authorization is completed on-time, within budget and all deliverables are provided to the satisfaction of BCAD. The assign to our subconsultants will be based on the following:

### Architectural Scopes:

Nilo Regojo, AIA (A<sup>2</sup>), Walters Zackria Associates (Sub)

### Structural/Threshold:

Al Ribas, P.E. (A<sup>2</sup>), Base Consultants (Sub)

### MEP Scopes:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), Delta G (Sub)

### ITS Scopes:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), Delta G (Sub)

### Geotechnical Scopes:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), H2R Corp. (Sub)

### Material Testing Scope:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), H2R Corp. (Sub)

### Fuel Scopes:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), Argus Consulting (Sub)

### Surveying Scopes:

Al Ribas, P.E. or Yesmin Cecilio, P.E. (A<sup>2</sup>), Engenuity

## Group (Sub)

## Project Management Approach Including Coordination and Oversight of Work Across Multiple Sub-Consultants

A successful project management approach combines strategic leadership with a structure that enables creativity, innovation, and results. Teamwork is at the core of every project, so project leadership must be team leadership. Project leadership provides the direction for technical project resources and is the decisive factor for delivering great projects. A<sup>2</sup> establishes the project structure with the Project Execution Plan (PEP), or map, and the Senior Project Manager (SPM) as the leader to guide the team. The SPM serves as the single point of contact in our term agreement contracts for our clients. When BCAD wishes to discuss a potential assignment with A<sup>2</sup>, our SPM, Al Ribas, P.E., will be the contact person and will have the authority to discuss project assignments. Mr. Ribas has significant experience working on multiple Airport term contracts requiring tight deadlines and quick turnarounds. After a preliminary internal discussion, Al will quickly assemble the appropriate A<sup>2</sup> technical resources and meet with BCAD staff to ensure we have a comprehensive understanding of the project goals. When BCAD determines the project is a good fit for our expertise and resource availability, we will develop our Project Execution Plan tailored to each assignment.

Our Project Execution Plan will be prepared by Al Ribas and Yesmin Cecilio, assisted by other key team members. The PEP will provide a format for managing and scheduling key components of each project, encourage forward thinking, and create a culture of proactive implementation. In effect, the PEP becomes a defined route, a map, to project completion. During the planning and design process, development of a well-considered and realistic PEP is critical to mapping out a successful design and budget. The plan will be used for monitoring and controlling all information necessary to provide high quality services on-time and under budget. The main features of our typical PEP are as follows:

- **Scope:** Clearly outline BCAD goals and objectives of BCAD (project essentials). These essentials are boiled down into manageable tasks for the project team to create a work breakdown structure.
- **Schedule:** Through the use of Primavera P6, the work breakdown structure will chart the course from planning through operational readiness including necessary

# Project Approach

administrative processes and approvals along with anticipated time frames and any applicable deadlines and BCAD milestones.

- **Budgeting:** The CEI budget is broken down and communicated to the project team. Internal budget controls are established, cash flow plan developed to track actual progress versus schedule and projected expenditures. The financial plan also assists the PM in coordinating with BCAD on monthly invoicing.
- **Resources:** The work breakdown structure and the schedule are used to identify the resources needed. Experienced and qualified engineers, architects, CADD designers, and subconsultants are assembled with Al Ribas and Yesmin Cecilio. Clear duties and responsibilities are identified and communicated to each team member.
- **Standards:** A<sup>2</sup> Project Management leads and assigned subconsultant(s) will review the project design, standards, codes, specification and cost estimate standards. A constructability review will be immediately initiated and any questions, issues or recommendations will be communicated to the project design team.
- **Quality Assurance/Quality Control (QA/QC) Plan:** Using our internal A<sup>2</sup> quality control process as a starting point, a customized QA/QC plan is developed for each project.
- **Communication Plan:** Lines of communication are established between BCAD and the A<sup>2</sup> team, including format and schedule for project status reporting. In addition, communication protocols will be setup for members of the project team including subconsultants assigned to that project and a regular project meeting schedule will be developed.
- **Claims avoidance and Risk Management:** Before the project begins, Al Ribas and Yesmin Cecilio, the Quality Control Manager, and each discipline leader will brainstorm and anticipate potential difficulties that the project could present and, to mitigate potential risks, establish measures for prevention.
- **Permitting:** The PEP will inventory what permits are applicable to the project, what agency has jurisdiction, and identify who is responsible for each of the various steps and preparation of information necessary for obtaining the permit.

Successful beginnings are critical to successful projects. The project team will begin work immediately after receipt of the notice to proceed from BCAD. Before major tasks are started on the project, the PEP is communicated to the project team in a kickoff meeting. This will convey goals and

objectives, the scope of work, schedule for completion of specific tasks, construction budgets, quality control procedures, communication methods, and risk management measures. In addition, clear roles and responsibilities are given to team members to facilitate buy-in and ensure accountability. To the extent they are available, background information including record drawings, CADD file base mapping and KMZ files are distributed. The kickoff meeting will be carefully structured, our typical agenda includes:

- Sharing the PEP
- Identifying Project Stakeholders and key players
- Restating of project goals and objectives
- Confirming project scope, budget and schedule
- Defining review requirements, lines of communication and decision makers
- Discussing operational limitations, fieldwork requirements and security protocols
- Identifying specific project deliverables and any project milestones

After the kickoff meeting, the project team will be fully prepared and eager to the start project. As work progresses, the PEP will be a highly effective tool for completing a quality project within schedule and budget.

**Project Status Reporting** - At a frequency appropriate for each project, Al Ribas and Yesmin Cecilio will evaluate project status. With a timely analysis, we can compare actual progress on the construction to the projected schedule and not-to-exceed budget. The projected expenditures that are established in the PEP are plotted on a graph of cost versus time. In checking project status, we will compute earned value to date by summing the value of the percent complete of each task. The earned value to date and funds expended are then plotted against the projected expenditures. This graphic enables the A<sup>2</sup> Project Management Team to monitor the progress of the scope of work as it relates to schedule and budget. BCAD will then be updated, at a minimum monthly, about the project status and schedule, as well as other ongoing efforts and critical action items. The project status reporting will also be linked to monthly invoices on the project, assuring invoicing is appropriate and in line with progress on the project.

Ultimately any major recommendations that impact critical construction elements and influence the total project cost significantly are completed and documented in a report. In addition, preliminary construction safety and phasing plans

# Project Approach

are also reviewed and coordination is initiated with operators.

Typically, the final design, contract documents, engineer's report, and cost estimate are finalized for bidding. In general, contract documents are prepared to 90% complete and will then coordinate review by BCAD and appropriate stakeholders. Less complicated projects, or those with specific schedule or budget constraints, can proceed directly to 100%. When reviews are completed and all comments satisfactorily addressed, the plans and other contract documents will be finalized before the bidding process is scheduled to begin.

As a firm with significant construction management experience and a self-performing contracting division, A<sup>2</sup> offers tremendous value in constructability reviews. This provides design personnel with the realities of a contractor's perspective, feedback on construction phasing, methods, materials and specifications, contract packaging, and contract administration matters. Subtle changes to the design, bid package, and specifications can help to avoid claims by providing more clarity to the design documents and closing off commonly exploited loopholes. We will also have construction administration staff conduct final quantity/pay item reviews as a final check before bidding to ensure any quantity discrepancies are identified and corrected.

**Bidding Phase Services** - Typically, the A<sup>2</sup> team will review and provide recommendations to questions from bidders and assist with composing Addenda or Bulletins as appropriate. We will coordinate with BCAD and the design team when these questions affect time, budget, or any important project goals, providing comprehensive, accurate answers during the bid phase can avoid serious problems during construction.

**Schedule Management** - Al Ribas and Yesmin Cecilio will be performing the scheduling review and analysis. They will conduct regularly scheduled progress meetings to monitor and control the project. The meetings present a forum for collaboration and communication, maintain accountability among team members, and keep all project team members working toward the same goal. A typical agenda for a progress meeting would include the following:

- Current project status
- Review of previous period progress.
- Identify critical path tasks needed to maintain project

progress on upcoming work.

- Coordination and communication to prevent re-work.
- Total project cost update.
- What changes could impact the total project cost?
- Design budget update.
- Update schedule and assign resource needs.
- Innovative ideas.
- Address any needed changes.

The project schedule established in the PEP has task interdependencies and a derived critical path. The critical path tasks show the A<sup>2</sup> Project Management Team how to efficiently complete the project in the least amount of time. In addition, it shows non-critical tasks that must be done in parallel to prevent delay. Furthermore, the schedule includes many activities that are not directly related to the design itself but are important to timely completion such as internal quality control reviews, BCAD reviews, permit acquisition and correction time. One of the many advantages of using scheduling software, Primavera P6, is that it is easy to track progress. When the A<sup>2</sup> Project Management Team identifies critical path tasks, they can proactively assign the right resources to complete the tasks most effectively. All tasks can be monitored, and changes can be anticipated. For fast-track projects, a complete and accurate schedule, that is maintained and up to date, can be used for all project team members to quickly refer to. It also facilitates schedule adjustments should a particular activity lag, especially for those outside of the control of the team such as a delay in acquiring a permit.

**Budget control** - Throughout construction, A<sup>2</sup> Project Management Team the project manager will evaluate project schedule status. With a timely analysis, the A<sup>2</sup> Project Management Team can compare actual progress on the project to the projected schedule and not-to-exceed budget. The projected expenditures that are established in the PEP are plotted on a graph of cost versus time. In checking project status, the A<sup>2</sup> Project Management Team computes earned value to date by summing the value of the percent complete of each task. The earned value to date and money spent are then plotted against the projected expenditures. This graphic enables the A<sup>2</sup> Project Management Team to monitor the progress of the scope of work as it relates to schedule and budget. BCAD can be updated about the project status and schedule, as well as other ongoing efforts and critical action items. The project status reporting can also be linked to monthly invoices on the project. This process assures that invoicing is



# Project Approach

appropriate and in line with progress on the project.

**QA/QC** - Quality Control is a vital process throughout construction and is an integral component of each project undertaken by A<sup>2</sup>. To ensure superior staff performance and work products, we will make use of our own internal quality control procedures and develop a Quality Control/Quality Assurance (QA/QC) Plan that is specific to this contract and then tailored to each assignment. The QA/QC Plan will identify lines of authority, responsibility and coordination and will address BCAD requirements. The quality control component helps oversee and audit the quality of all deliverables and the quality of the work itself. Quality control procedures, in turn, help monitor specific aspects of the project for consistency with established procedures and technical standards and ensure accountability for all team members. The most important element of quality control is that the SPM instills a focus on quality by all team members in daily decisions and efforts.

During construction, the QA/QC Plan will verify the project is conforming to requirements for documentation and file retainage, as-built plans are current and accurate and that project materials and workmanship are in conformance with contract requirements. These evaluations will be accomplished by internal audits at the 30%, 60% and 90% intervals of design and construction. The internal audits will be performed by our Quality Control Manager, Peter Nissen, P.E. and will be assisted by senior staff from subconsultants engaged in specific assignments.

Once the design and permitting have been completed, and the Contractor is on board, the work of Construction can begin. Our focus will shift to oversight, inspection, scheduling, coordination, quality assurance, issue resolution, and budget control. During construction, our primary role will be to ensure work is constructed in compliance with all applicable contract documents and requirements, that high quality work is delivered, that the work proceeds according to schedule, and a safe work site is maintained. We will conduct a Pre-Construction Meeting with appropriate stakeholders prior to work beginning on each individual project to ensure everyone is clear on the scope. We clearly communicate how the work will be monitored, what restrictions related to airfield operations apply, and whether any special instructions are needed. We will conduct pre-activity meetings prior to key activities to ensure the Contractor is aware of the contract requirements and has a plan for achieving the required result. Throughout

the life of each project, we will conduct Progress Meetings, attended by key stakeholders in person or remotely, to review progress as well as identify and resolve any issues. We will also use these meetings to review upcoming work to ensure all parties are prepared and that any advance requirements have been met. We will coordinate the review of and review ourselves Contractor proposals, shop drawings, submittals, etc. to ensure compliance with contract requirements. Throughout the life of each assignment, we will maintain appropriate documentation and well-organized project records.

We understand that changes during construction are inevitable. They can be a result of many factors such as unforeseen condition, utility conflicts, or changes in scope. Our approach will be to always keep BCAD staff informed and resolve issues as quickly as possible to keep projects moving forward. Our analysis of individual issues will be fact-based and will include our recommendations for resolution.

A<sup>2</sup> prepares a monthly project status report that communicates project progress, primary issues, key decisions to be made, project financial position, and schedule status. This report allows BCAD staff to quickly and accurately stay informed. We will provide all necessary construction administration services, including necessary weekly progress meetings as required by the airport. These services will include, but are not limited to:

- Conducting project meetings and providing construction oversight.
- Reviewing submittals, shop drawings, and requests for information.
- Preparing supplemental drawings for clarification of details, as required.
- Reviewing payment applications.
- Conducting punch list and final inspection.
- Review and recommendations on the approval of contractors' change order proposals.
- Coordinating between the contractors and the airport, when requested.

Even though many of us are working remotely, meetings remain an important part of how we work. We are experienced at leading the many types of meetings (in person and virtually as applicable) that are used to support the Pre-Construction process, including: Pre-Services Meetings for each assignment, Design and Constructability Meetings, Coordination Meetings with the involvement of

# Project Approach

Stakeholders, Permit Coordination Meetings, Utility Coordination Meetings, Pre-Bid Meetings, etc. Our goal is not to have meetings for the sake of meetings but to use focused, well-organized meetings to solicit concerns, identify and resolve issues, to document the process and to always maintain the forward progress of each assignment. We are adept at developing meeting exhibits and other supporting material and have the capability to provide them, including specialty efforts such as CADD drawings and 3-D renderings. We have also coordinated and hosted many ground-breaking and opening ceremonies should that be desired.

At A<sup>2</sup>, we begin our close-out process before the contractor breaks ground. If not responsibly managed throughout the life of each assignment, closing out will be unnecessarily challenging. We will finalize submittals and deliverables as they are completed and ensure that project documentation is well-maintained, accurate and complete. We will work with the contractor to maintain as-built drawings and ensure accurate record drawings. To simplify closeout, we will identify and correct deficiencies as work is completed to reduce the final punch list. At completion of construction and final inspection, A<sup>2</sup> will coordinate the project closing certification documents, as-built documents, certification of completion, operations and maintenance manuals, permit close-out and final payment application.

We are very experienced working with multiple individual assignments that are active concurrently, both in design and construction. Our proposed team is working successfully in precisely that situation on their current assignments and has been working in that environment for many years, including individual assignments that are very large and complex. Our project teams, and individual assignments always involve multiple subconsultants. We incorporate them into our team to always ensure that everyone understands their duties and responsibilities. We establish clear deadlines and milestones, in advance. With open lines of communication accountability is carefully structured so that everyone has the opportunity to identify any concerns and resolve them.

In addition to our internal spreadsheets for tracking project submittals and documentation, we will generate a monthly status report to advise BCAD of the progress of each assignment as well as any issues and our approach to resolving them. We will coordinate with BCAD on the initial report to ensure it is formatted to best meet your needs.

A<sup>2</sup> is very well-suited for this assignment as we have managed both airport facility expansion and new construction along with renovation and rehabilitation. We have assisted and managed multiple project assignments throughout the design process, including preliminary design, permit acquisition, jurisdictional coordination, and management of reviews by multiple agencies and entities. We have also participated in projects that included LEED certification as part of the design and construction and are very familiar with that process.

A<sup>2</sup> is excited at the prospect of partnering with BCAD, being part of the part of the BCAD Team. We will serve as an extension of the BCAD staff, assess and solve problems and design systems you can be proud of. Our goal will be to foster the high level of service that customers at the Fort Lauderdale/Hollywood International Airport and the North Perry airport have come to expect.

Our first priority on this contract is to be truly responsive. When questions are raised, deadlines are established, or issues require resolution, BCAD deserves prompt action. Responsiveness is an attitude of every project manager at A<sup>2</sup>, and we are proud of the reputation for customer service that we have worked to achieve. We encourage you to follow up with our references, they will confirm we deliver on our promises.

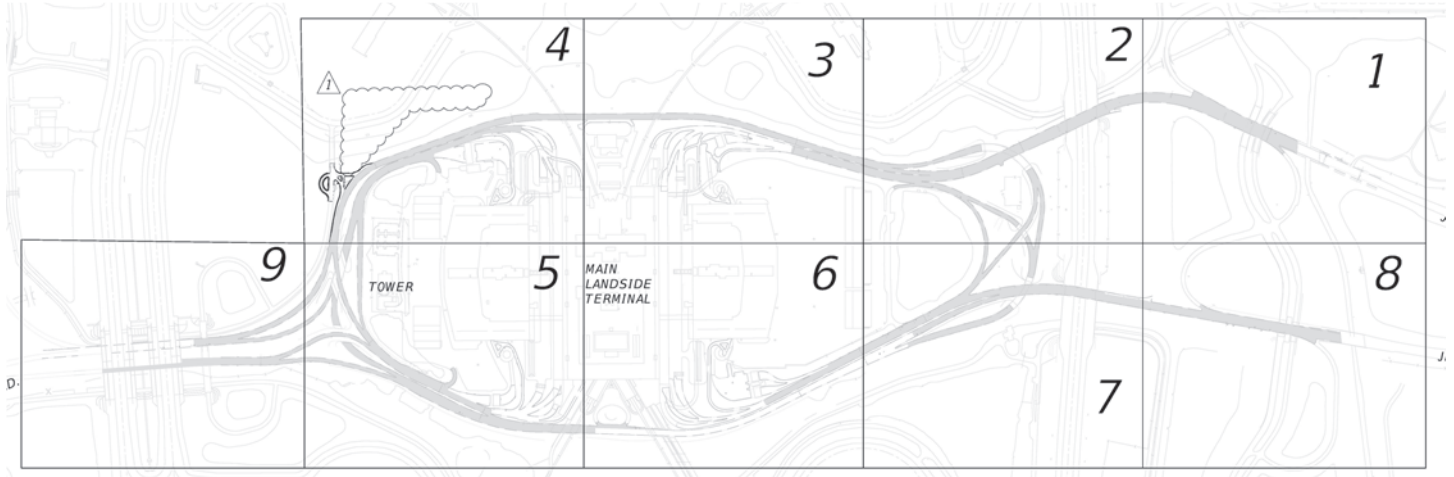
## Tab 3: Past Performance

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# GOAA BP-469 Loop Road Resurfacing and Related



A<sup>2</sup> Group, Inc provided construction oversight services for GOAA's BP 469 Loop Road Resurfacing and Related Work. Work included milling and resurfacing all lanes of existing asphalt pavement along the airport loop road, all enplane/deplane to terminals, all ramps to rental car facilities, all ramps to parking and commercial lanes, to include maintenance of traffic, pavement markings, and improvements to the roadway lighting. The scope also included the reconfiguration of existing AOA emergency access Gate E-30, through a phased sequence of temporary AOA fence and utility outages. Close coordination was required with entities airport-wide, due to the vast-reaching impact of this roadway project, to include coordination with Landside Ops, Maintenance, Parking, Commercial Properties, Ground Transportation, GOAA Public Affairs, FAA, ARFF, Airfield Ops, GOAA Electrical and Telecom, Security, City of Orlando, and Orlando Utilities Commission.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E. - Senior Project Engineer  
Chris Kieffer - Construction Project Manager

## Contact:

Scott Shedek, P.E.  
Greater Orlando Aviation Authority (GOAA)  
Tel: (407) 825-2465  
scott.shedek@goaa.org

## Project Location:

Orlando International Airport

## Type of Project:

- Program and Project Management

## Start Date:

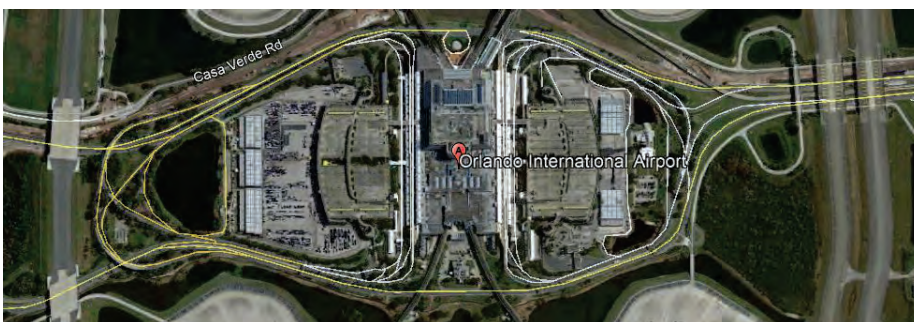
November 2017

## Final Completion Date:

June 2018

## Construction Cost:

\$7,198,422





# GOAA BP-043 ORL Runway Incursion Mitigation (RIM)



A<sup>2</sup> Group, Inc provided construction oversight services for GOAA's BP 043 ORL Runway Incursion Mitigation (RIM) and Related Improvements to Taxiway A Rehabilitation. The objective of this project is to enhance airfield safety for aircraft operations by implementing the Runway Incursion Mitigation (RIM) program, announced in June 2015 by the FAA as a nationwide runway safety related initiative. The FAA's RIM site for the Orlando Executive Airport is located near the intersection of Taxiway E4 and Runway 7. The scope of services for the proposed project consists of modification to existing pavement geometry for taxiways A, G and K and the removal of a portion of Taxiway E4 including paving, lighting, markings and signage. Additive Alternative #1 would construct Aircraft Design Group 1 holding bays near the intersection of TWY A and TWY A7. Additive Alternative #2 would construct the TWY A7 connector between TWY A and RWY 7-25.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E. - Senior Project Engineer  
Chris Kieffer - Construction Project Manager  
Evelyn Videia, P.E. - Construction Project Manager  
Hector Hernandez - Inspector

## Contact:

Tuan Nguyen, P.E.  
Greater Orlando Aviation Authority  
Tel: (407) 825-4662  
tnguyen@goaa.org



## Project Locations

Orlando International Airport

## Type of Project:

- Program and Project Management

## Start Date:

November 2019

## Final Completion Date:

May 2020

## Construction Cost:

\$4,202,580





## Vendor Reference Verification Form for RFPs, RLIs and RFQs

# GOAA BP-478 Airside 1 & 3 Apron Rehabilitation



A<sup>2</sup> Group, Inc provided construction oversight services for GOAA's BP 478 Airside 1 & 3 Apron Rehabilitation. Work included a full-depth replacement of 80 damaged concrete slabs on Airsides 1 & 3. Concrete slabs are 16" concrete and 6" of Econocrete. Work was inside the AOA and required close coordination with Airfield Operations, Airline Operations, Maintenance, and Security with regard to Airline schedules, gate closures, aircraft design group restrictions, special aircraft pushback procedure, and accessing the AOA through secure checkpoints.

**Staff Assigned to this Project:**

Alberto G. Ribas, P.E. - Senior Project Engineer  
Chris Kieffer - Construction Project Manager  
Hector Hernandez - Inspector

**Contact:**

Tuan Nguyen, P.E.  
Greater Orlando Aviation Authority (GOAA)  
Tel: (407) 825-2662  
tnguyen@goaa.org

**Project Location:**

Orlando International Airport

**Type of Project:**

- Program and Project Management

**Start Date:**

September 2018

**Final Completion Date:**

January 2019

**Construction Cost:**

\$1,241,655



## Vendor Reference Verification Form for RFPs, RLIs and RFQs



# GOAA BP-S174 Heintzelman Rent-A-Car Storage Lot 1



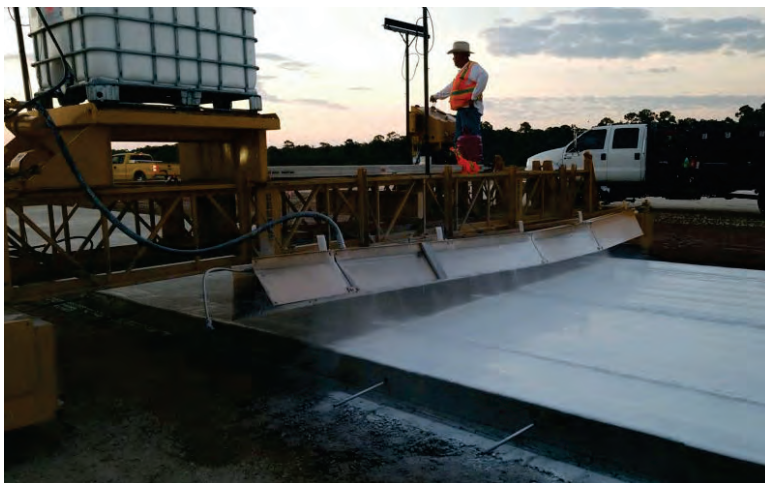
A<sup>2</sup> Group, Inc provided construction oversight services for GOAA's BP Heintzelman Rent-A-Car Storage Lot #1. Work included construction of a new Rent-A-Car vehicle Storage Facility, located along the southern portion of Heintzelman Boulevard. Work includes installation of water distribution, storm drainage, site lighting, embankment, asphalt paving, concrete paving, guardrail, fence, pavement markings and signage. The project area was 92 acres, with 55 acres being paved surface (approximately 30,000 Tons). Coordination was required with Landside Operations, Commercial Properties, Airfield Operations, FAA, GOAA Electrical and Telecom, GOAA Environmental, Planning Engineering & Construction, City of Orlando, and Orlando Utilities Commission.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E. - Senior Project Engineer  
Chris Kieffer - Construction Project Manager

## Contact:

Davin D. Ruohomaki, Senior Director of Engineering & Construction  
Greater Orlando Aviation Authority (GOAA)  
Tel: (407) 825-3105  
[druohomaki@goaa.org](mailto:druohomaki@goaa.org)



## Project Location:

Orlando International Airport

## Type of Project:

- Program and Project Management

## Start Date:

February 2019

## Final Completion Date:

July 2019

## Construction Cost:

\$19,600,000



## Vendor Reference Verification Form for RFPs, RLIs and RFQs



# GOAA V 867 Centerfield ARFF Administration Building



A<sup>2</sup> Group, Inc provided construction oversight services for GOAA's V 867 Centerfield ARFF Administration Building. Work included construction of a 4,000 square foot administration building adjacent to the active ARFF station. Close coordination was required with Airfield Operations, ARFF, FAA, GOAA Electrical and Telecom, GOAA Environmental, Planning Engineering & Construction, City of Orlando, and Orlando Utilities Commission.

#### **Staff Assigned to this Project:**

Alberto G. Ribas, P.E., R.L.A., LEED AP - Senior Project Engineer  
Chris Kieffer - Construction Project Manager

#### **Contact:**

Dan-Michael Trbovich, RA, NCARB, LEED AP  
Borrelli & Partners  
Tel: (407) 818-1338  
[dtrbovich@borrelliarchitects.com](mailto:dtrbovich@borrelliarchitects.com)

#### **Project Location:**

Orlando International Airport

#### **Type of Project:**

- Program and Project Management

#### **Start Date:**

December 2019

#### **Final Completion Date:**

March 2020

#### **Construction Cost:**

\$2,500,000







Reference for: [A² Group, Inc.](#)

Organization/Firm Name providing reference:

Borrelli & Partners, Inc.

Contact Name: [Dan-Michael Trbovich](#) Title: [Architect of Record](#) Reference date: [07/14/2022](#)

Contact Email:	<a href="mailto:dtrbovich@borrelliarchitects.com">dtrbovich@borrelliarchitects.com</a>	Contact Phone:	407-418-1338
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Name of Referenced Project: [GOAA V-867 Centerfield ARFF Administration Building](#)

Contract No.	Date Services Provided:	Project Amount:
GOAA V-867	11/15/2018 02/28/2020	\$ 2,343,269.00

Vendor's role in Project: ☒ Prime Vendor ☐ Subconsultant/Subcontractor

Would you use this vendor again? ☒ Yes ☐ No If No, please specify in Additional Comments (below).

**Description of services provided by Vendor:**

Owner's Authorized Representative services on the Air Rescue Fire Fighting Administration Building (4,600 SqFt)

<b>Please rate your experience with the referenced Vendor:</b>	<b>Needs Improvement</b>	<b>Satisfactory</b>	<b>Excellent</b>	<b>Not Applicable</b>
1. Vendor's Quality of Service	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Vendor's Organization:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Timeliness of:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Project completed within budget	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Cooperation with:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Your Firm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Subcontractor(s)/Subconsultant(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Regulatory Agency(ies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments: (provide on additional sheet if needed)

\*\*\*THIS SECTION FOR COUNTY USE ONLY\*\*\*

Verified via:      EMAIL      VERBAL Verified by: \_\_\_\_\_ Division: \_\_\_\_\_ Date: \_\_\_\_\_

All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.

# GOAA Program and Project Management Contract

A<sup>2</sup> has a 5-year Continuing Program and Project Management Services Contract with the Greater Orlando Aviation Authority (GOAA), which includes the Orlando International Airport and the Orlando Executive Airport. We provide all services necessary for the management of the design and construction of both individual projects and programs. Our work orders include:

Name	Status	Q1-18	Q2-18	Q3-18	Q4-18	Q1-19	Q2-19	Q3-19	Q4-19	Q1-20	Q2-20	Q3-20	Q4-20	Q1-21	Q2-21	Q3-21	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22
TASK 3 GOAA MANAGEMENT SERVICES																					
BP-495 Taxiway E, F, N Rehabilitation																					
H-S00025 Landscaping																					
BP-045 Taxiway K1	CLOSED																				
H-339 Taxiway Y Repairs	CLOSED																				
H-336 AS1 and AS3 Concrete Panel Replacement	CLOSED																				
E-S0009 Runway 17L ALSF-2 Replacement	CLOSED																				
TASK 4 GOAA VIRGIN TRAIN PROJ MGMT	CLOSED																				
BP-469 LOOP ROAD	CLOSED																				
BP-478 AIRSIDE 1 & 3 APRON	CLOSED																				
V-00883 WEST MAIN STORAGE	CLOSED																				
H0093 LANDSIDE A & B	CLOSED																				
H-00299 AOA SECURITY FENCE	CLOSED																				
H-S00012 SOUTH APM FENCING	CLOSED																				
H-304 NTC LEVEL 1 GREASE TRAP	CLOSED																				
H-307 MCO EMPLOYEE PARKING	CLOSED																				
V-864 SANITARYGREASE LINE REPL	CLOSED																				
V-867 CENTERFIELD ARFF ADM BLDG	CLOSED																				
V-S0009 SOUTH ROADWAY OT-16 BRIDGE	CLOSED																				
H-312 AEROTERM STORM DRAINAGE	CLOSED																				
W-S00134 WAREHOUSE RENOVATION	CLOSED																				
H-00314 COMMERCIAL LANE	CLOSED																				
EP-00014 AIRSIDE 3 EMERGENCY REPAIR	CLOSED																				
GOAA MISC SMALL JOBS	CLOSED																				
EP-00023 CONCRETE DITCH	CLOSED																				
BP-S00165 WA 37-1 HEINTZELMAN RENT A CAR	CLOSED																				
BP-473 PARKING GARAGE	CLOSED																				
H-318 AIRSIDE 1 & 3 SLAB REPLACEMENT	CLOSED																				
OARW-S00137 SOUTH APM-ITF MISC WORK	CLOSED																				
H-323 JFB NB AT HEINTZELMAN BRIDGE	CLOSED																				
EP-000XX EMERGENCY REPAIR	CLOSED																				
BP-S00165 WA # 27 (added WA#37-3)	CLOSED																				
E-00254 REMOVE LINEAR LIGHT	CLOSED																				
V-881 DATRONICS SIGNS	CLOSED																				
BP43 RUNWAY INCURSION MITIGATION	CLOSED																				
WS-111 SOUTH TERMINAL COMPLEX	CLOSED																				
BP-486 RUNWAY 18L-36R	CLOSED																				
E-0255 RUNWAY 17L-35E	CLOSED																				
3-00253 ELECT MANHOLES 33 AND 37	CLOSED																				
V-928 AIRSIDE 3 RESTROOM MIRROR REPL	CLOSED																				
V-929 REPL BLDG 8550 ADD 8	CLOSED																				
BP-S00172 South Employee Lot	CLOSED																				
G-00034 SOUTH CELL LOT & TRAVEL	CLOSED																				
H-00326 SB JEFF FUQUA BLVD	CLOSED																				
H-327 Runway 18r/36L Shoulder Asphalt	CLOSED																				
V-948 Level 1B Side East	CLOSED																				
ES-10 Install Fountains at S APM Pond	CLOSED																				
V-930 Landside Level 3 Bottle Filling Station	CLOSED																				
G-S000001 Parking Garage C-Sign	CLOSED																				
38H-0003 Guardrail and Safety	CLOSED																				
V-943 GCI Small Job for GOAA - V-943	CLOSED																				
GCI Small Job for GOAA	CLOSED																				
GCI Small Job for GOAA	CLOSED																				
GCI Small Job for GOAA BP488	CLOSED																				
H-332 MCO Parking Bus Loop	CLOSED																				
H-331 A & B	CLOSED																				
V-952 QTA Building A1	CLOSED																				
H-318	CLOSED																				

# SR 836 Modifications at 87th Avenue

A<sup>2</sup> provided CEI services for the SR 836 Interchange Modifications at 87th Avenue for Miami Dade Expressway Authority (MDX). The scope of this A + B Project included the reconstruction of the SR 836 Mainline and NW 87th Ave Interchange to enhance the overall operation of the system. The project included improvements to the mainline and existing ramps, improvements to the NW 87th Avenue and NW 12th Street. The project included six new bridges (five bridges 200'-FIB 84 (one curved) and one 90'-FIB 36) supported by foundations consisting of 214 - 24" piles. In addition, a new CAT 2 curved flyover ramp bridge (twin steel trapezoidal box) that provides direct connection from westbound NW 12th Street to westbound SR 836. In addition, the scope involved the construction of 52,032 tons of asphalt paving, 200,400 SF noise barriers, MSE Walls, signing and pavement markings, lighting, drainage, utility coordination, Intelligent Transportation System (ITS) infrastructure, landscaping, and a new bicycle path along NW 12th Street. There was also Infrastructure for the permanent electronic toll facility located on the eastbound ramp from NW 87th Avenue to SR 826 and SR 836.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E., RLA, LEED AP - Senior Project Engineer  
 Yesmin Cecilio, P.E. - Senior Project Engineer  
 Alejandro Salazar - Project Administrator  
 Juan Alonso - Project Administrator  
 Hugo Beteta - Contract Support Specialist  
 Javier Tilano, P.E. - Senior Inspector  
 Ivan Morejon - Senior Inspector  
 Robert Moulton - Senior ITS/Lighting Inspector

## Owner Contact Information:

Miami Dade Expressway Authority (MDX)  
 Juan Toledo, P.E.  
 Tel: (305) 637-3277  
 jtoledo@mdxway.com



**Project Location:**  
 Miami, Florida

**Services Provided:**  
 • CEI

**Status:**  
 Completed

**Construction:**  
 \$70 million

**Contract:**  
 \$10,328,899

**Project Start Date:**  
 May 2016

**Final Completion Date:**  
 October 2020





## Vendor Reference Verification Form for RFPs, RLIs and RFQs

Broward County Solicitation No. and Title:

PNC2123699P1 - Professional CEI Services for Airport Utilities and Pavement Projects

Reference for: A<sup>2</sup> Group, Inc.

Organization/Firm Name providing reference:

Miami Dade Expressway Authority

Contact Name: Juan Toledo, P.E.

Title: Deputy Executive Director

Reference date: 07/14/2022

Contact Email: jtoledo@mdxway.com

Contact Phone: (305) 637-3277

Name of Referenced Project: MDX SR 836 Modifications at 87th Avenue

Contract No.

83629.051

Date Services Provided:

05/15/2016

10/15/2020

Project Amount:

\$ 70,000,000.00

Vendor's role in Project: ☒ Prime Vendor ☐ Subconsultant/Subcontractor

Would you use this vendor again? ☒ Yes ☐ No If No, please specify in Additional Comments (below).

### Description of services provided by Vendor:

CEI services for the SR 836 Interchange Modifications at 87th Avenue to enhance the overall operations, which included 6 new bridges, asphalt paving, noise barriers, MSE walls, lighting, drainage, utility coordination, ITS, landscaping, etc.

### Please rate your experience with the referenced Vendor:

Needs  
Improvement

Satisfactory

Excellent

Not  
Applicable

1. Vendor's Quality of Service

a. Responsive

b. Accuracy

c. Deliverables

2. Vendor's Organization:

a. Staff expertise

b. Professionalism

c. Turnover

3. Timeliness of:

a. Project

b. Deliverables

4. Project completed within budget

5. Cooperation with:

a. Your Firm

b. Subcontractor(s)/Subconsultant(s)

c. Regulatory Agency(ies)

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**Additional Comments: (provide on additional sheet if needed)**

Very Responsive and professional firm

\*\*\*THIS SECTION FOR COUNTY USE ONLY\*\*\*

Verified via: ☐ EMAIL ☐ VERBAL Verified by: \_\_\_\_\_ Division: \_\_\_\_\_ Date: \_\_\_\_\_

All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.

# Wekiva Parkway 429-204 Systems Interchange

A<sup>2</sup> provided CEI services for Wekiva Parkway 429-204 Systems Interchange of SR 429 & SR 453 for the Central Florida Expressway Authority (CFX). The contract included construction of the new 2.63-mile segment of the limited access roadway in Apopka, Florida. The project extended through 175-acres of greenfield, with nearly 150-acres of clearing and grubbing, 51,000-SF of house/associated structures demolition and 30,000-LF of existing fence removal. This "First in Florida" project included eight bridges composed of 8,436 LF of 48-72" haunched concrete U-girders, 72,792-LF of 18" concrete piling. It also included 201,000-SY of roadway construction, 243,000-CY of excavation, 2.48 million-CY of import embankment, a 6 month surcharge area, 7,131-CY of sinkhole grouting, 47,800 tons of asphalt, 23,900-LF of drainage piping and structures. The longest of the bridges was a 2,550 LF CAT 2 flyover ramp composed of curved post tensioned concrete haunched U-girders. The work also included pond construction, FON construction, CCTV, highway lighting, sign structures, signage, pavement markings, sod and seed and mulch.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E. - Senior Project Engineer  
 Javier Tilano, P.E. - Senior Inspector  
 David Howard - Senior Inspector

## Owner Contact Information:

Central Florida Expressway Authority (CFX)  
 Don Budnovich, P.E.  
 Tel: (407) 690-5334  
 donald.budnovich@cfxway.com

## Awards for the Project:

- Grand Award Winner in the 2019 ACEC Florida Engineering Excellence Awards
- First in Florida for a Curved Haunched Concrete U-Girder Post-Tensioned
- FTBA Best in Construction Award for Expressway Authority



## Project Location:

Apopka, Florida

## Services Provided:

- Construction, Engineering, & Inspections

## Status:

Completed

## Construction:

\$80 million

## Project Start Date:

January 2016

## Final Completion Date:

March 2018







# SR 417/Boggy Creek Interchange

This project encompassed 2.98 miles of construction along SR 417 mainline and South Access Road. Work required for this project included the new construction of four flyover and bridge ramps, new roadway and bridge construction of South Access Road, roadway and bridge widening of SR-417, ramp reconstruction, ramp widening, drainage improvements, lighting, signing, pavement marking and ITS. The improvements under this contract included two widening bridges totally 188 lf and five new bridges totally 5,309 lf. The "First in Florida" bridge construction was comprised of a combined total 52,212 lf of 24" square prestressed concrete piles, 7,381 CY Superstructure Concrete, 6,850 CY of Mass Concrete, 373 lf of ASSHTO Type V concrete beams, 2,093 lf of ASSHTO Type VI concrete beams, 1,794 lf of Steel Box Girders, 306 lf of 72" Precast Prestressed Splice U-Girder and 8,095 lf of 84" Precast Prestressed Splice U-Girder. Three Category 2 Flyover bridges (2,700 LF, 1,400 LF & 800 LF) comprised of "First in Florida" twin curved post tensioned concrete U-Girders and twin trapezoidal steel box girders. The earthwork required included 1,130,349 CY (South Access Rd – 440,000 CY) of embankment and 151,706 SF of mechanically stabilized earth retaining wall. This project also included the excavation of 48,271 CY of material from existing ponds, mill 83,983 SY of existing asphalt pavement, pave 47,492 tons of super pave traffic level C, pave 5,463 tons of friction course FC-5, the installation of 19,956 LF of new drainage system (RCP 18" to 66", DIP 16" SS, BCCMP 18" GD), 1,710 LF of directional bores (4" to 12"), 25,345 SF of sheet piling (temporary-critical), the installation of 224,942 SY of Argentina Bahia. The signing work required construction of 6 ea overhead truss and 11 ea overhead cantilever signs, 23 ea drilled shafts for the overhead signs. The project also included the installation and splice of 19,549 LF of new Fiber Optic Cable (conduits and fiber optic cables) with their respective manholes. The scope of the project in terms of ITS infrastructure was limited to the relocation of the existing infrastructure. Due to the nature of the project, significant amount of existing fiber optic cable required the installation of steel split casing for protection during construction.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E. - Senior Project Engineer  
 Javier A. Tilano, P.E. - Senior Inspector  
 David Howard - Senior Inspector

## Owner Contact Information:

Central Florida Expressway Authority (CFX)  
 Don Budnovich, P.E.  
 Tel: (407) 690-5334  
 donald.budnovich@cfxway.com

## Awards for the Project

- Grand Award for Engineering Excellence by the Florida Institute of Consulting Engineers (FICE)
- Merit Winner for a 2017 Alliant Building America Award in Highway and Transportation from the AGC of America
- First in Florida for a Curved Concrete U-Girder Post-Tensioned



## Project Location:

Orlando, Florida

## Services Provided:

- Construction, Engineering, & Inspections

## Status:

Completed

## Construction:

\$85 million

## Our Fees:

\$5,874,315

## Project Start Date:

September 2012

## Final Completion Date:

February 2016



# MIA South Terminal Expansion



The South Terminal Program was a major expansion to the former terminal configuration and consisted of eight major projects: The MIA South Terminal Expansion, MIA Terminal South/Terminal Improvements, Concourse J, H-J Utility and Pavement Project, Concourse H Modifications for International Gates, Concourse H International Head house Demolition and Construction, and MIA H Terminal Improvements and H-J Sewer and Related Work. A<sup>2</sup> Group, Inc. provided construction management services including scheduling, cost management, quantity surveying and estimating.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E., RLA, LEED AP - Constructability/Design QA/QC

## Owner Contact Information:

Parsons-Odebrecht, J.V./ Miami International Airport  
 Jesus Vazquez, Project Executive (formerly with Odebrecht)  
 Tel: (954) 771-6677  
 jvazquez@facchina.com

## Project Architect/Engineer:

Rizo, Carreno & Partners

## Relevant Project Information:

- Airport
- Structural Steel
- Occupied Campus
- Pre-Construction Services
- Civil Work



## Project Location:

Miami, Florida

## Services Provided:

- Construction Management
- Scheduling
- Cost Management
- Quantity Surveying
- Estimating

## Status:

Completed

## Size of the Project:

1.7 m sq ft

## Construction:

\$658,700,000

## Project Start Date:

September 2001

## Final Completion Date:

August 2007





# Taxiway Alpha 3 at the Naval Air Station

A<sup>2</sup> Group, Inc. was contracted by NAVFAV Southeast to provide design-build services for the repairs to Taxiway Alphas A/3 at the Naval Air Station located at Jacksonville, FL. The work entailed geotechnical exploration, design and construction to repair Taxiway A/3 pavement (3,000 SY) and drainage in accordance with Unified Facilities Criteria, Airfield and Heliport Planning and Design, and Pavement Design for Airfields and Surface Drainage Facilities for Airfields and Heliports. A<sup>2</sup>'s design was based on new airfield loadings anticipated for the NAS JAX mission (737 MMA, C17, C5, C40, etc) over the next ten years. This project was conducted in an active secure airport facility, on airside, which required continual coordination with airfield operation to avoid disruption to their daily work schedule. Work was performed during both daytime and nighttime. This project was completed two weeks ahead of schedule.

## Staff Assigned to this Project:

Alberto G. Ribas, P.E., RLA, LEED AP - Constructability/Design QA/QC  
Yesmin Cecilio, P.E. - Construction Project Manager

## Owner Contact Information:

NAVFAC Southeast, PWD Jacksonville  
Dolores Butler  
Tel: (904) 542-5572  
dolores.butler@navy.mil

## Project Architect/Engineer:

A<sup>2</sup> Group, Inc.

## Relevant Project Information:

- Airport
- Occupied Campus
- Pre-Construction Services
- Civil Work



## Project Location:

Jacksonville, Florida

## Services Provided:

- Design/Build

## Status:

Completed

## Size of the Project:

340 LF

## Original Value:

\$866,596

## Final Value:

\$866,596

## Project Start Date:

May 2009

## Final Completion Date:

December 2009 (early)





### ***TPA Tampa International Airport***

## **Transmission Line Relocation**

Argus provided professional engineering services associated with the transmission line relocation approximately 1500' of a single 18" and two 12" fuel lines that accommodated the construction. In addition to being relocated, the two 12" lines were replaced with a single 18"/24" double wall pipe and the existing 18" line that was also replaced with a new 18"/24" double wall pipe. The work occurred in phases to ensure that a constant supply of jet fuel was always available to the airport.

### ***FLL Ft. Lauderdale Airport***

## **Fuel Farm Expansion**

The Ft. Lauderdale Fuel Facilities consortium retained Argus Consulting for master planning, design, construction administration and resident engineering services for significant upgrades and expansion to the airport's fuel storage facility originally built in 1986.

In 2016, Argus conducted an engineering study of the existing airport fueling facilities and prepared a Fuel Facilities Assessment document for improvements and modifications to serve the airport's needs for the next 30 years. Each of the major components of the facility were evaluated including four 27,000 BBL tanks, incoming pipelines, filtration, hydrant pumps and filters, loading stations, an operations and maintenance building, and the fire protection system. The final Fuel Facilities Assessment includes adding two additional bulk storage tanks, a new Operations and Maintenance Building, upgraded control system, one additional hydrant system pump with filtration train, upgrades to the existing receipt filtration system, increased dike storage capacity, and other miscellaneous facility improvements. The design program was competitively bid to multiple engineering firms and ultimately awarded to Argus.

Argus has designed improvement to nearly all fuel system functions including pipeline receipt, truck unloading, fuel storage, hydrant fueling, tank-to-tank transfer, and refueler loading. Construction will be done in two phases to maintain operations of the existing system, requiring extensive coordinated efforts with the facility operator, contractors, and the airlines. Phase One includes a new 6900 sq. ft. Operations & Maintenance Building, a new 145 sq. ft. fuel lab, converting to an automated fixed foam fire protection system and installation of a new electrical system including Variable Frequency Drive for Hydrant Pumps, and updated HMI. The existing operations building will be demolished once the new building is completed and operational to make room for expansions in Phase Two.

Phase Two includes the addition of two new 38,000 BBL storage tanks; raising the existing secondary containment system dike walls by 18 inches; significant improvements to the existing pipeline receiving station and an additional filtration train; addition of motor-operated valves at the existing tanks for an automated system; and modifications to the existing tanks including removing a floating deck, adding hand rails and additional safety features to the top of the tanks.

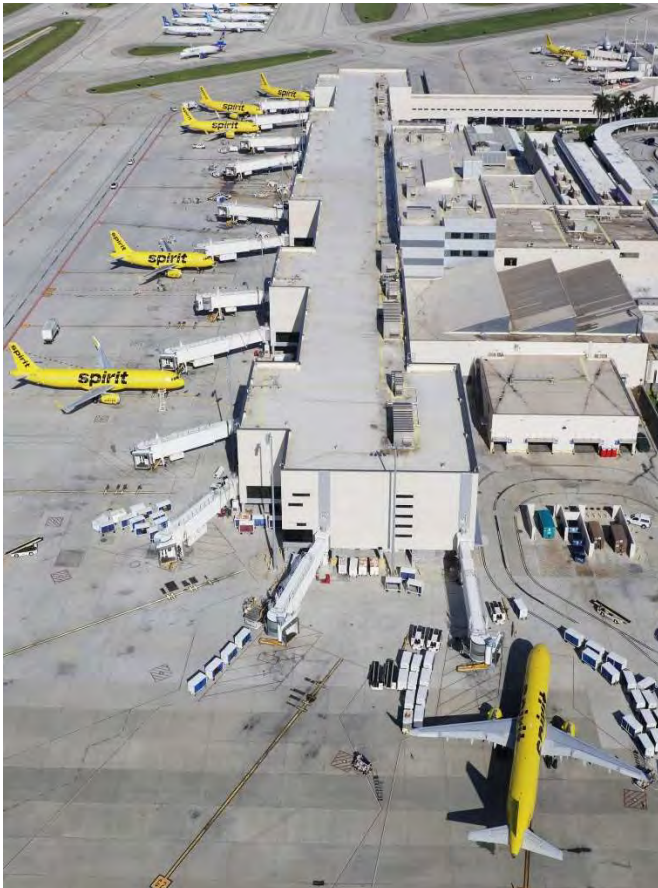
## **FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT TERMINAL 4 CONCOURSE G EXPANSION**

Fort Lauderdale, Florida

The Terminal 4 Gate Replacement program at the Fort Lauderdale-Hollywood International Airport (FLL) was a highly complex project that required intricate phasing. The project replaced the existing six-gate Concourse H with a new concourse (Concourse G), which provided 12 international and two domestic gates.

The project was constructed using multiple contracts and using different design delivery methods. The initial phase comprised of a 6-gate eastern terminal expansion and included construction of a new passenger Security Screening Checkpoint. Under a separate contract, the underground hydrant fueling system was reconfigured and expanded, replacing the existing single wall hydrant fueling system and branches with a new double wall system with dual loops and leak detection.

Another contract constructed a new aircraft parking apron and taxilanes. Finally, a fourth contract constructed an 8-gate western terminal expansion. This scope of this final contract also included demolition of Concourse H and construction of new offices for airport staff on the fourth and fifth levels of the terminal.



The program required constructing the new facilities while existing facilities were kept in continuous operation. The initial phasing plan required that four international gates would always be available. However, after the project

commenced, the Airport experienced a dramatic increase in international traffic, which necessitated a minimum of six international gates to always remain operational. Furthermore, the phasing for the apron construction was impacted by the need to accommodate ADG-V aircraft, which was not anticipated in the original planning. These factors required significant re-phasing of the projects to accommodate operational needs.

The Apron Expansion consists of seven major phases of replacement of existing PCC apron and asphalt taxilanes with a new 15.5-inch-thick PCC apron with parallel ADG-III and ADG-IV taxilanes. The schedules for each project were coordinated as to allow for concurrent construction and simultaneous completion/opening of critical components.

### **CLIENT**

Broward County Aviation  
Department  
320 Terminal Drive, Suite 200  
Fort Lauderdale, FL 33315

### **REFERENCE**

Carlos Hernandez, P.E.  
Broward County Aviation  
Department  
954-3591025  
CAHernandez@Broward.org

### **START/COMPLETION**

2012 – 2019

### **PROJECT COST**

\$450 Million

### **PRIME**

AECOM

### **PROGRAM MANAGER**

Alan Pattison

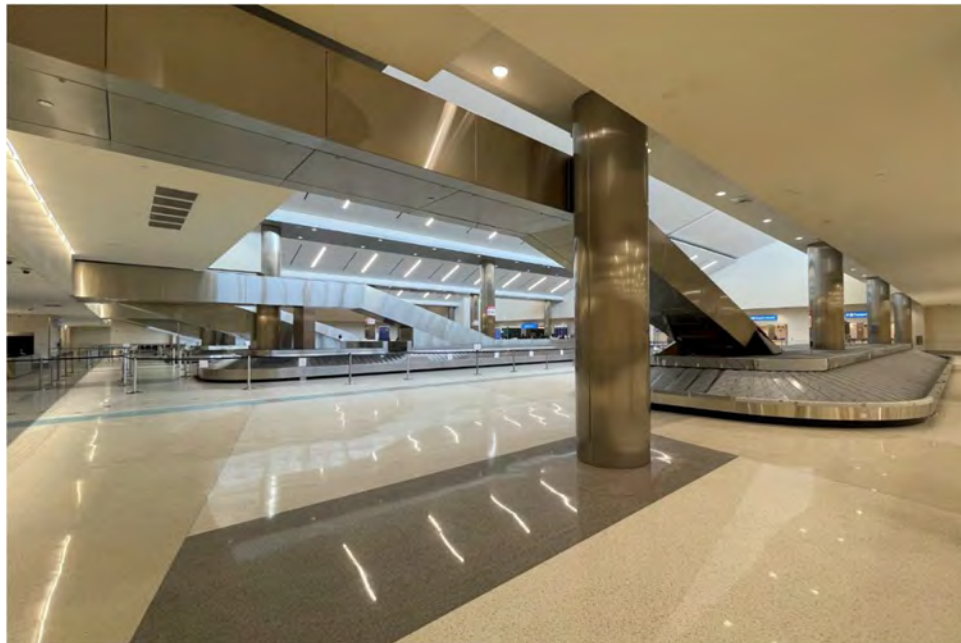
### **SERVICES PERFORMED**

Developed Program Planning  
Document, oversaw design and  
construction management

## **FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT T4 FEDERAL INSPECTION SERVICES EXPANSION**

Fort Lauderdale, Florida

Following the opening of the expanded South Runway, Fort Lauderdale-Hollywood International Airport (FLL) experienced a dramatic increase in international traffic, which grew at double digits for a period of years. This resulted in a project to significantly expand and reconfigure the Terminal 4 Federal Inspection Services Facility, more than doubling the passenger processing capacity from 800 to 2,000 passengers per hour. The improvements required a building expansion of approximately 35,000 square feet and renovation of approximately 100,000 square feet of existing terminal spaces. Passenger processing was required to continue throughout the period of construction, resulting in the project being constructed under two separate contracts, with the latter contract separated into multiple phases to ensure continuous operation of Customs and Border Protection (CBP) functions. The project included six new baggage induction lines to feed four new international baggage claim devices, with over 900 linear feet of baggage presentation, and involved extensive renovations to existing back-of-house CBP functions.



### **CLIENT**

Broward County Aviation  
Department  
320 Terminal Drive, Suite 200  
Fort Lauderdale, FL 33315

### **REFERENCE**

Carlos Hernandez, P.E.  
Broward County Aviation  
Department  
954-3591025  
CAHernandez@Broward.org

### **START/COMPLETION**

2016 – 2022

### **PROJECT COST**

\$115 Million

### **PRIME**

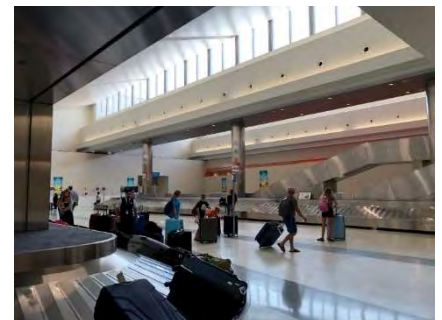
AECOM

### **PROGRAM MANAGER**

Alan Pattison

### **SERVICES PERFORMED**

Developed Program Planning  
Document, oversaw design and  
construction management



Corradino managed the Terminal 4 Federal Inspections Services Expansion project from planning through construction and helped implement a major shift from traditional passenger processing by implementing a variety of new technologies. In addition, improved efficiencies have been achieved by consolidating CBP's processing functions on a single level creating a true "One Stop" process for passengers. Not only has the passenger experience been improved, but CBP processing efficiencies have been enhanced as only one interaction is necessary with non-referred passengers.



## I-4 ULTIMATE PROJECT

Orange and Seminole Counties, FL

The Corradino Group is currently serving on FDOT's Construction Oversight Services Team (COS) on the largest transportation Public-Private-Partnership contract in Florida to date. The COS is responsible for developing and utilizing FDOT's first-ever Requirements Verification Database and Risk-Based Audit System to verify the Concessionaire's compliance with the overall Construction Quality Control and Quality Assurance Program. The six-year design-build-operate-maintain-finance P3 contract consists of the following:



- 21 miles of Interstate reconstruction
- Reconstruction of 15 major interchanges
- Addition of 4 Managed Toll Express Lanes
- Replacement of more than 140 bridges
- 13,535 steel and concrete piles
- 86 miles of drainage improvements
- 5,000,000 CY of imported embankment
- 540 miscellaneous drilled shafts
- 3,800,00 SF of MSE Walls
- 577,000 SY of Concrete Pavement
- 908,000 TN of Asphalt

The project involves coordination with the St. John's River and South Florida Water Management Districts, the Cities of Orlando, Winter Park, Maitland and Altamonte Springs, the Town of Eatonville and Seminole and Orange Counties. There is also significant work involved on SR 408 with the Central Florida Expressway Authority and over \$165 million in utility relocations and adjustments.

### CLIENT

FDOT DISTRICT FIVE  
1551 SANDSPUR ROAD, SUITE 120  
MAITLAND, FLORIDA 32751

### REFERENCE

Loreen Bobo, PE  
Construction Program Manager  
Tel.: 407-670-2341

### START/COMPLETION

2014 – ONGOING  
(ANTICIPATED COMPLETION 2022)

### CONSTRUCTION COST

\$2.2 Billion

### PRIME

HNTB

### PROJECT MANAGER

Scott Presson, PE

### SERVICES PERFORMED

Construction Oversight Services



## I-95/I-595 EXPRESS LANES, PHASE C,

Fort Lauderdale, Florida

The Project includes the conversion of the existing I-95 Lanes near Fort Lauderdale-Hollywood International Airport, from Stirling Road to Broward Boulevard. The project includes widening, milling, resurfacing, overbuild, and/or reconstruction resulting in two tolled Express Lanes in each direction. The number of existing I-95 General Purpose Lanes and Auxiliary Lanes will remain the same. Access to the Express Lanes will be limited to designated ingress and egress locations as defined in the Summary of Scope provided. The Express Lanes will implement congestion-based toll pricing. The facility will employ Electronic Toll Collection (ETC) via the Florida's Turnpike Enterprises (FTE) SunPassSM system.



Reconstruction, milling, resurfacing, overbuild, widening, and/or restriping of I-95 from south of Hollywood Boulevard to south of Broward Boulevard to accommodate the following:

- One additional Express Lane in each direction (2 lanes total in each direction), between south of Stirling Road and Broward Boulevard.
- A southbound Express Lanes entrance and a northbound Express Lanes exit location, serving Sheridan Street and interchanges to the north for traffic to and from the south.

### CLIENT

Florida Department of  
Transportation, District 4  
3400 Commercial Boulevard, Fort  
Lauderdale, FL 33309

### REFERENCE

Mr. Paul Lampley  
FDOT  
954-845-9550  
[paul.lampley@dot.state.fl.us](mailto:paul.lampley@dot.state.fl.us)

### START DATE

Summer 2019

### END DATE

Spring 2025

### PROJECT COST

\$457 Million

### PRIME

The Corradino Group, Inc.

### PROGRAM MANAGER

Ed Perez de Morales, P.E.

### SERVICES PERFORMED

Construction Engineering &  
Inspection (CEI) services  
Project Administration  
Inspection & Testing  
Public Information Services



- A northbound Express Lanes entrance and a southbound Express Lanes exit location, serving Sheridan Street and interchanges to the south for traffic to and from the north.
- Construction of dual exits for the northbound and southbound exit ramps to Sheridan Street.
- Dual right turn lane improvements at the ramp terminal for the I-95 northbound exit ramp movement to eastbound Griffin Road.

I-95/I-595 Direct Connectors between northbound and southbound 95 Express Lanes and I-595, to and from the west.

I-95/SR 84 Interchange modifications, including replacement of the westbound SR 84 bridge over I-95, to accommodate one additional Express Lane in each direction along I-95 and Direct Connectors to and from I-595.

Reconstruction, milling, resurfacing, overbuild, widening, and/or restriping of I-595 from SR-7 to I-95, including the I-595 bridges of Pond Apple Slough, to accommodate the following:

- Additional auxiliary lanes along I-595 and to/from the Direct Connectors.
- A new westbound I-595 exit ramp to Turnpike.
- A new eastbound I-595 entrance ramp from Turnpike.
- A new eastbound I-595 exit ramp to eastbound SR-84.

Other work includes bridge widening, bridge painting, ITS, Tolling/gantry, signage, ramp signalization, lighting, drainage, shoulder mounted sound walls, and retaining walls.





## MIAMI INTERNATIONAL AIRPORT SATELLITE E FACILITIES CEI SERVICES

Miami, Florida

The Miami-Dade Aviation Department (MDAD) initiated a program to renovate and improve Satellite E facilities at Miami International Airport. In addition to the terminal renovations, this program also included modifications to the aircraft parking apron, including pavement



strengthening, revised apron markings and modifications to the existing underground hydrant fueling system.

Corradino was selected by the Miami-Dade Aviation Department to perform Construction Inspection Services for the fueling system modifications.

The project was broken into two major segments of work: Phases 1 & 2 on the south side of the apron and Phases 3 & 4 on the north side of the apron. Together the phases included the construction, demolition, or modification of 21 hydrant pits with associated lateral fuel lines to accommodate different and larger aircraft at the gates of E Satellite Terminal.

The project scope expanded to include CCTV inspection of the entire hydrant loop system when concerns regarding the condition of the piping system were discovered. The CCTV inspection revealed the need for an extensive pigging and flushing plan, which deviated from the proposed pigging and flushing of the installed lateral lines.



The project scope was further expanded to remove four Isolation Valve Pits and associated piping, which were not in compliance with current regulations.

Services provided by Corradino included: Contractor Submittal Review, Field Inspection Services, Coordination activities, and Contract Administration Activities.



### CLIENT

Miami-Dade Aviation Department  
Building 3030, 2nd Floor East  
4331 NW 22nd Street  
Miami, FL 33299

### REFERENCE

Manuel Freire  
Miami Dade Aviation Department  
305-869-3471  
Mfreire@miami-airport.com

### START/COMPLETION

2016 – 2017

### PROJECT COST

\$13.6 Million

### PRIME

The Corradino Group, Inc.

### PROGRAM MANAGER

Robert Regalado

### PROJECT MANAGER

Austin P'Pool, P.E.

### SERVICES PERFORMED

Contractor Submittal Review  
Field Inspection Services  
Coordination activities  
Pay application review  
Contract Administration Activities



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
210929	FLL Passenger Bording Bridge Replacement	Cartaya & Associates	Roger	954-771-2724
210707	FLL Terminal 1 Pedestrian Bridges	Cartaya & Associates	Roger	954-771-2724
210110	MIA Lost and Found	William Lane Architect, Inc.	William Lane	(305) 865-7830
210109	MIA Cruise Passanger Pickup Area	William Lane Architect, Inc.	William Lane	(305) 865-7830
210108	MIA CBP Offices International Baggage Claim Concourse D Second Floor	William Lane Architect, Inc.	William Lane	(305) 865-7830
200809	HWO North Perry Airport Security Enhancements	Cartaya and Associates	Roger	954-771-2724
200705	FLL IS Communication Rooms-MEPFP Improvements	Cartaya and Associates	Roger Lebida	954-771-2724
190629	FLL Exit Road Final Design	Keith & Associates	Alex Lazowick	(954) 788-3400
190508	FLL T1 - Concourse A - Roadway Barrier	Cartaya and Associates	Roger Lebida	954-771-2724



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
190403	FLL Remote Noise Monitor Terminals 12 & 13	Keith & Associates	Alex Lazowick	(954) 788-3400
190402	FLL Aircraft Rescue Fire Fighting Midfield #10 (ARFF) Air Curtains	Cartaya and Associates	Roger Lebida	954-771-2724
180801	Credentialing Offices Demolition and Relocation in Terminal 1 of FLL Interior Remodel	Cartaya and Associates	Roger Lebida	954-771-2724
180507	Delta Sky Club Space As-builts at FLL	Cartaya and Associates	Roger Lebida	954-771-2724
180108	T1 Concourse C Level 1 HMS Host Back of House As-Builts	Synalovski Romanik Saye, LLC	Merrill Romanik	(954) 961-6806
180107	T1 Concourse C Level 2 HMS Host Back of House CD's	Synalovski Romanik Saye, LLC	Merrill Romanik	(954) 961-6806
180106	T1 Concourse B Level 1 HMS Host Back of House As-Builts	Synalovski Romanik Saye, LLC	Merrill Romanik	(954) 961-6806
180105	T1 Concourse B Level 2 HMS Host Back of House As-Builts and CD's	Synalovski Romanik Saye, LLC	Merrill Romanik	(954) 961-6806
171010	FLL Cell Lot Perimeter Road Enhancements	Keith & Associates	Tracy Scheppske	(954) 788-3400
171004	FLL Crosswalk Signalization Lighting & Technology Improvements	Keith & Associates	Tracy Scheppske	(954) 788-3400





DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

<b>Project #</b>	<b>Project Name</b>	<b>Client</b>	<b>Client PM</b>	<b>Phone Number</b>
170912	Wayman Aviation School Building at HWO at North Perry Airport	Cartaya and Associates	Mr. Justiniano	(954) 771-2724
170831	FLL South Runway Bridge Inspection	Keith & Associates	Alex Lazowick	(954) 788-3400
170716	FLL T-1B Host Offices	Environetics	Hans Erdenberger	(201) 894-1000
170605	FLL T1-A Lower Level Concessions Storage	Environetics	Hans Erdenberger	(201) 894-1000
170509	FLL East Pond Irrigation Main	Keith & Associates	Alex Lazowick	(954) 788-3400
161107	Fort Lauderdale Executive Airport - FXE Administration Building Renovation	HDR Engineering, Inc.	John Neff	(954) 233-4915
161003	Farmer's Market at FLL - T1	Environetics	Hans Erdenberger	(201) 894-1000
161004	Air Margaritaville at FLL - T1	Environetics	Hans Erdenberger	(201) 894-1000
161005	Auntie Anne's at FLL - T1	Environetics	Hans Erdenberger	(201) 894-1000
161114	Burger Fi T1-A	Environetics	Hans Erdenberger	(201) 894-1000



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
160706	FLL NW 10th Street Temporary Access	Keith & Associates	Alex Lazowick	(954) 788-3400
160408	Whiskey River T1-B Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160409	Sergio's T1-B Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160410	Burger King T1-B Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160411	Farmers Market T1-B Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160412	Red Stripe T1-B (10) Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160413	Starbucks T1-B(9) Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160414	Beach Market T2 Pre-Security Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160415	Starbucks T2-D Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160416	Tarpon Bend T2-D Site Survey	Environetics	Hans Erdenberger	(201) 894-1000



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

<b>Project #</b>	<b>Project Name</b>	<b>Client</b>	<b>Client PM</b>	<b>Phone Number</b>
160417	Outback T2-D Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160418	Anthony's Coal Fired Pizza T2-D - 16B -SRS Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160419	Great American Bagel T2-D - 16C-SRS Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160420	Starbucks T-2 Pre Security	Environetics	Hans Erdenberger	(201) 894-1000
160421	Offerdahl's T1-C Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160422	Rocco's Taco's T1-C Site Survey	Environetics	Hans Erdenberger	(201) 894-1000
160202	FLL T1-B Starbucks Relocation	Environetics	Hans Erdenberger	(201) 894-1000
150601	FLL T1 Baggage Starbucks	Environetics	Hans Erdenberger	(201) 894-1000
150526	FLL T4 Task 1 Enabling Projects	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
150527	FLL T4 Task 2 Bag Hall Temp Secondary	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000





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## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
150528	FLL T4 Task 3 CBP Interior Renovation	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
150526	FLL T4 Task 1 Enabling Projects	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
150527	FLL T4 Task 2 Bag Hall Temp Secondary	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
150528	FLL T4 Task 3 CBP Interior Renovation	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
150601	FLL T1 Baggage Starbucks	ENVIRONETICS	Devin Davis	(201) 894-1000
150414	T4 FLL Duty Free	Cartaya and Associates	Mr. Justiniano	(954) 771-2724
150407	FLL T1 Commissary Walk-in cooler	HMS Host	Mike Noell	(954) 249-7903
150403	FLL T4 Crew Base	Singer	Chirag Thaker	(954) 537-9136
150106	Starbucks T1 Baggage	Singer	Chirag Thaker	(954) 537-9136
150102	Urban Market @ FLL T2	Singer	Chirag Thaker	(954) 537-9136



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## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
141210	T4 FIS Near Term Project	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
141211	T4 FIS Programming and Field Investigation	ACAI Associates, Inc.	Paul Pannier	(954) 484-4000
141011	FLMP T1A - (New Terminal 1A at FLL for Southwest) This is a new 270,000SF Terminal/Concourse building	CORGAN	John Murphy	(214) 757-1736
140904	United Air Office renovation at PBI	Singer Architects	Chirag Thaker	(954) 537-9136
140315	FLL T1C Shula Burgers	Cuhaci & Peterson	Joseph Gamb	(407) 661-9100
140223	Torn Basil @ FLL Terminal 2	Cuhaci & Peterson	Joseph Gamb	(407) 661-9100
140224	Pronto Grab n Go @ FLL Terminal 1	Cuhaci & Peterson	Joseph Gamb	(407) 661-9100
131217	Terminal 3 Pre-Security Commissary	PGAL	Adrianna Murillo	(561) 988-4002
130816	T4 Dunkin Donuts Kiosk	PGAL	Adrianna Murillo	(561) 988-4002
130807	FLL International Airport T4H Concessions for Casavana and Kalik Cafes	PGAL	Adrianna Murillo	(561) 988-4002



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## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
130808	FLL International Airport T4H Concessions for Casavana Kitchen and Seating	PGAL	Adrianna Murillo	(561) 988-4002
130809	FLL International Airport T4 - Food Wall Relocation - Fresh Selections	PGAL	Adrianna Murillo	(561) 988-4002
121205	Carnival Hangar #500 T.I.'s	Singer Architects	Chirag Thaker	(954) 537-9136
121201	Terminal 4 Concessions at FLL	PGAL	Adrianna Murillo	(561) 988-4002
121118	Galaxy Aviation Hanger Building	Singer	Roger	(954) 537-9136
120227	Terminal # 3 South Restrooms and Cash Room	Singer Architects	Chirag Thaker	(954) 537-9136
120224	Terminal 3 Escalators Lighting QVL B&P and CA Project	Singer Architects	Chirag Thaker	(954) 537-9136
120220	Ground Transportation Booths at Terminal 1,2,3 & 4	Singer Architects	Chirag Thaker	(954) 537-9136
111217	AOCC at FLL Task 1	Singer Architects	Chirag Thaker	(954) 537-9136
111216	BCAD Trailers Facility	Singer Architects	Chirag Thaker	(954) 537-9136





DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
111114	FLL FNK Rest-Bar and Grab and Go	Callison	Mrs Soehnlén	(212) 354-9240
111003	Platinum Aviation Spray Paint	Platinum Aviation	Glenn Juber	
110913	T3 Concourse E Modifications FLL	Singer Architects	Chirag Thaker	(954) 537-9136
110910	Jet Aviation Specialist	Jet Aviation Specialist	Mr. Rodriguez	
110901	Terminal 2,3,4 Pedestrian Bridge	HDR Engineering, Inc.	Will Suero	(305) 728-7400
110826	FLL Concessions Project	PGAL	Mr. Vallejo	(561) 988-4002
110819	Cabot Building BCAD Tenant Space Remodel	Singer Architects	Chirag Thaker	(954) 537-9136
110502	Florida Aircraft Leasing Building Remodel @ FLL	Donald Zimmer Architects, AIA	Company Closed	N/A
110425	FLL T4 Hydrant Fueling System Design	EAC Consulting Inc.	Ivonne Pineda	(305) 265-5400
110325	Terminal 3 Fire Shutter	Singer Architects	Chirag Thaker	(954) 537-9136



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

<b>Project #</b>	<b>Project Name</b>	<b>Client</b>	<b>Client PM</b>	<b>Phone Number</b>
110313	BCAD Terminal 2 Offices	Singer Architects	Chirag Thaker	(954) 537-9136
110117	FLL Taxi Cab Holdings Lot Modifications	Singer Architects	Chirag Thaker	(954) 537-9136
100826	Concourse Development at FLL	EAC Consulting Inc.	Ivonne Pineda	(305) 265-5400
100616	US Airways Ticket Kiosk	US Airways	Patrick Dorismond	(484) 320-8116
100601	Terminal 3 Concourse E Elevator Addition	Singer Architects	Chirag Thaker	(954) 537-9136
100317	Terminal 4 Spirit West Side ATO Communications Room @ FLL	Singer Architects	Chirag Thaker	(954) 537-9136
100305	Terminal 2,3,4 Soffit Replacement at FLL	HDR Engineering , Inc	Chuck T. Sinclair, PE	(954) 928-2891
100118	Gate 100/101 Relocation @ FLL	Singer Architects	Chirag Thaker	(954) 537-9136
100115	Terminal 3 Escalator Relocation @ FLL	Singer Architects	Chirag Thaker	(954) 537-9136
71123	USA Parking Valet Booth @ FLL	Singer Architects	Roger	(954) 998-1856



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
71104	AirCanada in Terminal 1 @ FLL	Singer Architects	Roger	(954) 998-1856
71101	Southwest Air Lightning in Terminal 1 @ FLL	Singer Architects	Roger	(954) 998-1856
71011	Travelex Currency Services Renovation @ FLL	Singer Architects	Roger	(954) 998-1856
70803	Terminal 4 FIDS Monitor Replacement @ FLL	Singer Architects	Roger	(954) 998-1856
70623	Aircraft Rescue Fighting Midfield Bldg. "ARFF" @ FLL	Singer Architects	Roger	(954) 998-1856
70536	Aviation Solutions @ MPC 7B	MCID & Assoc.		
70213	Terminal 4 Post Security Concession @ FLL	Singer Architects	Teen Woon	(954) 998-1856
70134	Spirit Air Ops @ Terminal 4 @ FLL	Singer Architects	Roger	(954) 998-1856
61205	Parking Lot LED Signage @ FLL	Singer Architects	Roger	(954) 998-1856
61119	Terminal 3 I-Club @ FLL	Singer Architects	Roger	(954) 998-1856





DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
61116	Terminal 3 Ice Cream Shop @ FLL	Singer Architects	Roger	(954) 998-1856
61115	Terminal 2 Flower/Business @ FLL	Singer Architects	Roger	(954) 998-1856
61114	Terminal 3 Flower/News and gift shop @ FLL	Singer Architects	Roger	(954) 998-1856
61025	Terminal 2 FIDS Monitor Replacement @ FLL	Singer Architects	Roger	(954) 998-1856
61024	Terminal 1 FIDS Monitor Replacement @ FLL	Singer Architects	Roger	(954) 998-1856
61019	Palm Beach Int'l Airport Terminal Expansion	Meisner Electric		(561) 278-8362
60615	750 Bld. Hanger Door Replacement @ FLL	Singer Architects	Roger	(954) 998-1856
60518	Cruise Baggage Facility @ FLL	Singer Architects	Guillermo	(954) 998-1856
60321	Terminal 1 Xray @ FLL	Singer Architects	Roger	(954) 998-1856
60307	Terminal 1 Baggage Screening @ FLL	Singer Architects	Roger	(954) 998-1856



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

Project #	Project Name	Client	Client PM	Phone Number
60224	Vender Space Shell @ FLL	Singer Architects	Roger	(954) 998-1856
60205	CTR Parking garage @ FLL	CTR Systems	Harvey	
50831	Terminal 4 Concessions @ FLL	Singer Architects	Roger	(954) 998-1856
50517	Jet Blue Concourse E post feb 13	Singer Architects	Roger	(954) 998-1856
50512	FXE Airport Rescue & Firefighting	ACAI Associates, Inc.	Adolfo	
50508	Jet Blue Concourse C Redo	Singer Architects	Roger	(954) 998-1856
50304	Spirit Airline MX	Singer Architects	Roger	(954) 998-1856
50126	Spirit Airline Renovation Terminal 4	Weisberg	Marc	
41220	US Air Cargo @ FLL	PGAL	Jimmy	
41219	US Air Maintenance/Breakroom @ FLL	PGAL	Jimmy	



DELTA G CONSULTING ENGINEERS, INC.

## Aviation Projects Completed By Delta G Consulting Engineers, Inc.

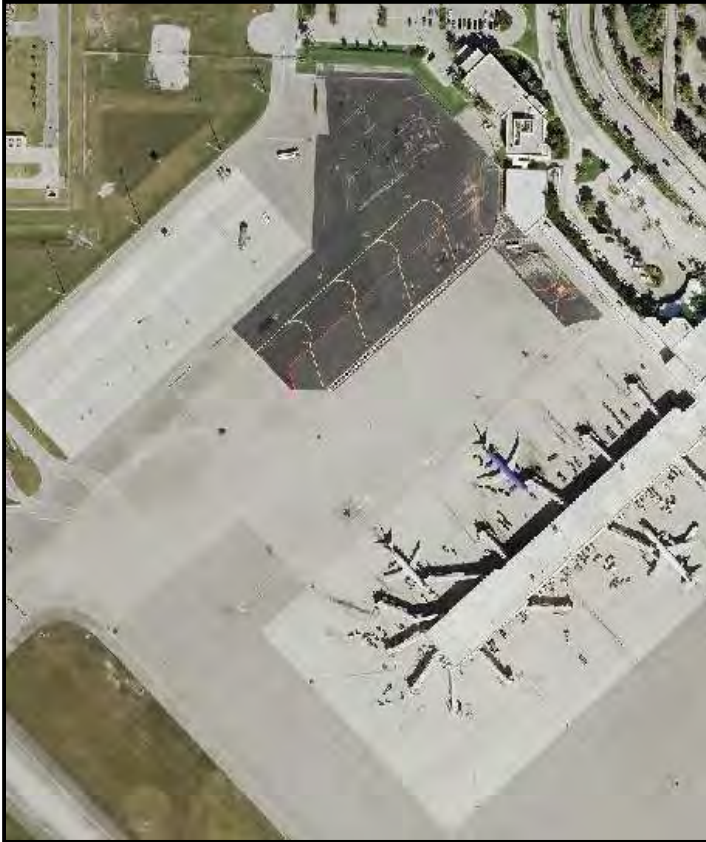
Project #	Project Name	Client	Client PM	Phone Number
41218	US Air Ticket Counter @ FLL	PGAL	Jimmy	
40914	Spirit Airlines 10 Gate Podium Stations	Singer Architects	Roger	(954) 998-1856
40901	Jet Blue ATO Renovation @ FLL Airport	Singer Architects	Roger	(954) 998-1856
40822	Jet Blue E-Ticket Relocation @ FLL	Singer Architects	Roger	(954) 998-1856
40818	Jet Blue Gates B-8 & B-9 @ FLL	Singer Architects	Roger	(954) 998-1856
40626	Jet Blue W.P.B	Singer Architects	Roger	(954) 998-1856
40316	United Airlines Gate Podiums @ FLL	Singer Architects	Roger	(954) 998-1856



# AIRPORT EXPERIENCE

## PALM BEACH INTERNATIONAL AIRPORT

### WEST PALM BEACH, FLORIDA

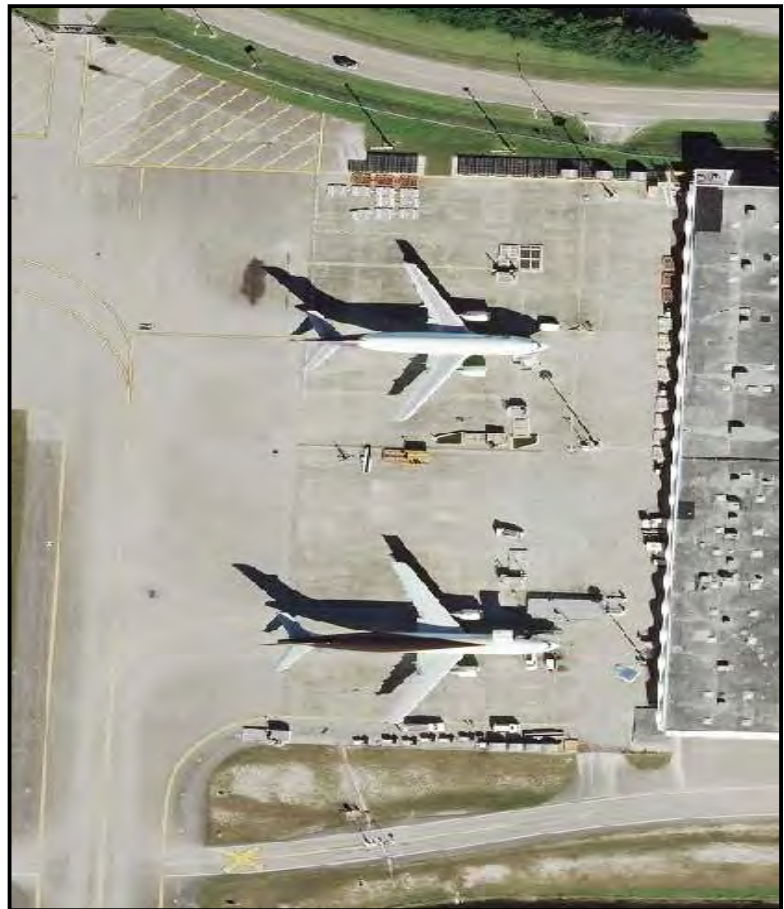


**PROJECT: Concourse "A-B"**

**LOCATION: PBIA – West Palm Beach, Florida**

**CLIENT: AECOM**

Engenuity Group Inc. was the surveying professional on the AECOM team that was selected by Palm Beach County to provide professional engineering service for the Department of Airports. The tarmac of Concourse "A-B" was slated for rehabilitation. Engenuity Group Inc. gathered all the necessary above ground information including elevations to facilitate the replacement and redesign of this area.



**PROJECT: Air Cargo Apron**

**LOCATION: PBIA – West Palm Beach, Florida**

**CLIENT: AECOM**

The concrete loading air cargo apron for UPS and Fed ex had developed stress cracks over time. Engenuity Group Inc., gathered all the necessary above ground information including elevations to facilitate the replacement and redesign of this area.



## AIRPORT EXPERIENCE

### PALM BEACH INTERNATIONAL AIRPORT

### WEST PALM BEACH, FLORIDA



**PROJECT:** – Taxiway C Rehabilitation

**LOCATION:** PBIA – West Palm Beach, Florida

**CLIENT:** AECOM

Engenuity Group provided the design (topographic) survey data for the existing pavement areas within the limits of survey at approximate 25-foot x 25-foot spacing grid, to produce a digital terrain model and contours at a 0.2-foot interval. Cross-section intervals less than 25 feet may be required when necessary to define abrupt changes in pavement grades and changes in pavement types.

Establish a primary horizontal and vertical project control, for approximately 10,000 feet of taxiway.

**PROJECT:** Taxiway F Rehabilitation

**LOCATION:** PBIA – West Palm Beach, Florida

**CLIENT:** Rosso Paving & Drainage Company

- Stake and grade runway for subgrade
- Stake and grade runway for construction
- Bluetops for runway
- Stake and grade storm drainage system with 2 offsets
- Provide layout for light (163)
- Stake and grade for swales (5)
- Flag safety area
- Provide certified as-builts





## AIRPORT EXPERIENCE

### PALM BEACH INTERNATIONAL AIRPORT

### WEST PALM BEACH, FLORIDA



#### **PROJECT: FBO & Hangar Buildings Construction**

**LOCATION: PBC DOA – Belle Glade Municipal Airport, Florida**

**CLIENT: Rosso Paving & Drainage Company**

Engenuity Group, Inc. services include:

- Boundary Survey confirmation
- Horizontal and Vertical Control
- Bench Mark Establishment
- Main Hanger Building Staking and Layout
- Site Plan Improvement Locations
- Health Department Survey/Site Plan for Septic Tank Plan
- Health Department Application and Permit pursuit of same



#### **PROJECT: Apron A Expansion**

**LOCATION: PBIA – West Palm Beach, Florida**

**CLIENT: PipeCon Corporation**

- Establish Horizontal and Vertical Control
- Stake and Grade Water
- Stake and Grade for Lift Station & 9 Manholes
- Stake and Grade for Sewer and/or Force Main
- Provide all Required Certified As Builts



**AIRPORT EXPERIENCE**  
**PALM BEACH INTERNATIONAL AIRPORT**  
**WEST PALM BEACH, FLORIDA**

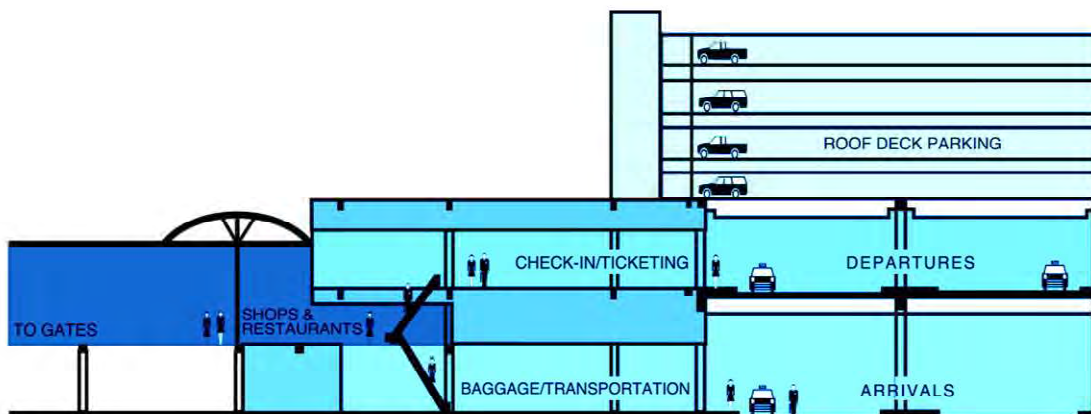


**PROJECT: Baggage Area B, 1<sup>st</sup> Floor**

**LOCATION: PBIA – West Palm Beach, Florida**

**CLIENT: Whiting Turner Construction**

- Performed construction control layout in the Palm Beach International Airport Baggage Area B, 1<sup>st</sup> floor.







OUR PROJECT EXPERIENCE

# AIRPORT RUNWAY EXPANSION

## Fort Lauderdale Hollywood International

**LOCATION:** Ft. Lauderdale, FL

**OWNER:** Fort Lauderdale –  
Hollywood International Airport

**CLIENT:** Broward County Aviation  
Department

**COST:** \$180M

**COMPLETION:** 2014

**SERVICES PROVIDED:**

Geotechnical  
Construction Materials Testing  
ITS design and field services  
Construction Inspections



### PROJECT DESCRIPTION

H2R (then Gannett Fleming Geotechnical Group) provided the geotechnical design engineering and analysis, turnkey intelligent transportation systems (ITS) design, construction services and construction inspection services for the runway expansion project at the Fort Lauderdale – Hollywood International Airport (FLL) starting with the expansion of the southern runway, 9R-27L runway, to accommodate larger commercial aircraft. This project was designed to meet increasing travel demands, improve the air traffic system and to accommodate larger passenger aircrafts.

At the FLL, a mechanically stabilized mountain supports a pair of massive concrete bridge structures. The bridge structures were designed to safely carry the world's largest passenger aircraft over active roadways that include U.S. 1, East Perimeter Road and the Florida East Coast Railway (FECR). There are six parallel tunnels, topped with a 500,000-square foot runway deck capable of handling the rough landing of a fully loaded 747 or an Airbus A360. This engineering feat is only the second-of-its-kind in the U.S., following a similar configuration at the world's busiest airport, Atlanta Hartsfield-Jackson International.



The project included significant earthwork, walls, drainage, roadway realignment, vehicle bridge, runway bridge, and a taxiway bridge. Our firm's geotechnical services included standard penetration test borings, auger borings for mechanically stabilized earth (MSE) walls, embankments, roadway, 24-inch pile bridge foundations, high-mast lighting drilled shaft foundations, water retention areas, stone columns, and signal poles at the Griffin Road intersection.

For the ITS portion of the project, we designed and implemented the new ITS deployment to support traffic management and operations. The design included extensions to two separate ITS subsystems: BCAD's and the Florida Department of Transportation's (FDOT) fiber-optic communication network subsystems. The integrated ITS system helps to facilitate and manage the traffic traveling on the new, parallel taxiway and multiple bridge structures that support the extended runway. As the traffic passes above the adjacent FECR, U.S. Route 1 (the airport's perimeter road), and associated airport access ramps, in the event of an incident, the ITS devices allow BCAD and FDOT to monitor the situation, deploy appropriate measures, and disseminate information as needed. The integrated ITS design with BCAD's existing closed-circuit television (CCTV) cameras at the airport, keeps BCAD and FDOT informed of potential situations. The FDOT ITS is also integrated into the existing system that transmits the data back to the SMART SunGuide® Transportation Management Center. The ITS system also includes a video-based automatic incident detection system, a dynamic message sign subsystem, and connection to the main power backup subsystem, including all ancillary components within the U.S. Route 1 corridor.

Our geotechnical design engineering was a key component in the development and construction of the bridges and associated runway expansion. This work required significant resources and expertise to meet the technical challenges associated with the difficult soil's conditions. Multiple contractors and design teams added to the complicated nature of this project, and it required all members to fully coordinate their efforts for a successful project outcome.

The project's successful outcome was enhanced by the use of several best practices that our firm developed, based on experiences from previous design-build projects.

- Constructability Reviews - The construction managers and lead-system integrators engaged early in the design to obtain feedback through plans reviews.
- Strong Working Relationships. The turnkey approach forged a solid working relationship between our design team and construction team.
- Post Design Coordination. By working closely with the construction team early in the design, post-design concerns were minimized, providing a smooth transition from design, to construction, to integration. This included thousands of dynamic pile tests to expedite construction and address challenges associated with pile relaxation.





# Tamiami Trail 2.6-Mile Bridge CEI and Geotechnical Services

**LOCATION:** Tamiami Trail

**OWNER:** FDOT

**COST:** \$100M

**COMPLETION:** 2020

**CLIENT:**

FJ-Group

Francis R. Chin, P.E.

954-868-7090

fchinsr@fj-group.com

**SERVICES PROVIDED:**

Construction Engineering

Inspection

Dynamic Pile Testing Supervision

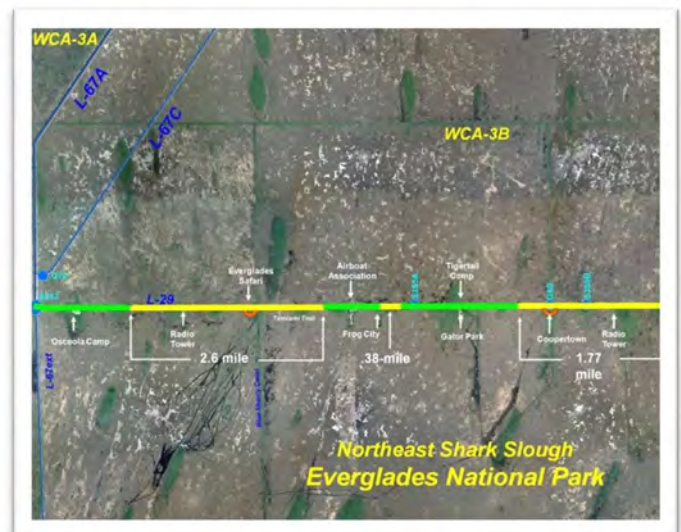
Review of Geotechnical Submittals



## PROJECT DESCRIPTION

As part of the Comprehensive Everglades Restoration Plan (CERP), The Florida Department of Transportation and the National Park Service replaced a portion of the Tamiami Trail Road/U.S. Highway 41 with a new 2.6 mile-long bridge.

H2R was responsible for providing geotechnical support to the Construction, Engineering, and Inspection (CEI) team, including oversight of all geotechnical related activities. On this project, H2R also oversaw the engineers performing dynamic pile testing, and review of all geotechnical documents (i.e. RFI, pile length letters, pile foundation certification packages) submitted by the design-build team to identify discrepancies and to ensure that the foundations are constructed according to the design plans and the Florida Department of Transportation's specifications.





# C-44 RESERVIOR STA Project, Contract 2

**LOCATION:** Martin County, FL

**OWNER:** USACE Jacksonville

**COST:** \$2M

**COMPLETION:** 2022

**SERVICES PROVIDED:**

Geotechnical Engineering  
Construction Materials Testing  
Foundation Testing & Inspection  
Subsurface Exploration & Drilling  
Inspection Services

**EQUIPMENT UTILIZED:**

**CLIENT:** Barnard Construction

**CLIENT CONTACT:**

Steve Kidd  
321-302-6409  
steve.kidd@barnard-inc.com



## PROJECT DESCRIPTION

H2R is providing construction materials testing, materials inspection, and geotechnical services for this new above-ground reservoir and STA project. This project is the primary component of the Indian River Lagoon-South project, which in turn is a key element of the Comprehensive Everglades Restoration Program. The Indian River Lagoon is considered the most biologically diverse estuarine system in the continental United States and is home to more than 3,000 species of plants and animals. The C-44 Reservoir and Stormwater Treatment Area is the first component of the multi-billion dollar Indian River Lagoon-South project. The project is designed to capture 65 percent of the average annual stormwater runoff in the C-44 basin. The reservoir component will hold up to 50,600 acre-feet, or 16 billion gallons, of water at an average depth of 15 feet.





H2R is serving as the quality control representative and geotechnical engineer for the project and performing support services for various dam construction elements. Field services include materials testing and sampling, exploratory drilling, and Cone Penetrating Testing which is being correlated to density in lieu of conventional field density tests. In addition, H2R is providing multiple quality control inspection staff as well as professional services for engineering including shoring and dynamic pile testing, Contractor Submittals, and project data management services.

H2R developed software to manage the immense volume of data generated for this project. In addition, H2R was able to gain Government Acceptance of CPT testing in lieu of nuclear density testing for the toe trench drain, developing a testing program, developing correlations and a computer program to seamlessly integrate the collection and reporting into the overall quality control program.

## BROWARD COUNTY AVIATION MAINTENANCE BUILDING



### Location:

Broward County  
Ft. Lauderdale-Hollywood  
International Airport

### Owner:

Broward County Aviation  
Department

### Owner's Representative:

Staci Montefusco,  
Project Manager III  
954-359-6149

### Services:

- Architectural/Engineering
- Programming
- Validation Reporting
- Cost Estimating
- Permitting
- Construction Administration
- LEED Design Components



### 66,193 SQ. FT. BCAD NEW MAINTENANCE BUILDING

<b>Program:</b>	• Maintenance Shop Facilities	33,445 sf
	• Maintenance Operation Office	10,330 sf
	• Common Use Area	6,515 sf
	• Inventory Management	5,385 sf
	• Building Support	4,500 sf
	• Future Growth	6,018 sf
	• <b>TOTAL BUILDING AREA:</b>	<b>66,193 sf</b>

<b>Site:</b>	• Exterior Use Areas	81,000 sf
	• Parking Areas	70,000 sf
	• Fuel Station	1,500 sf
	• Mechanical / Electrical Yards	2,500 sf
	• Landscape Area	20,000 sf

- Enhance overall BCAD Maintenance Department operations including an environment that enhances communications, increases productivity, lowers costs, and improves resource management.
- Create a facility to resist hurricanes to current code standards, which is capable of remaining operational during such emergencies.
- Create a 'green' building that is LEED Silver certified.



## BROWARD COUNTY AVIATION MAINTENANCE BUILDING





## MARKHAM PARK MAINTENANCE BUILDING



### Location:

Broward County  
Sunrise, FL

### Owner:

Broward County

### Owner's Representative:

Shobhan V. Smart  
954-384-3727

### Services:

- Architectural/Engineering
- Permitting
- Construction Administration
- LEED Design Components



### 10,000 SQ. FT. MAINTENANCE BUILDING

- Offices
- Lockers and restrooms
- Carpentry shop
- Lawn main shop
- Paint shop
- Storage warehouse
- Fuel station
- Bulk material storage
- Exterior covered work area

## BOCA RATON—UTILITY BUILDING 1B RENOVATIONS



**Boca Raton, FL**

**Location:**

1401 Glades Road  
Boca Raton, FL 33431

**Owner's**

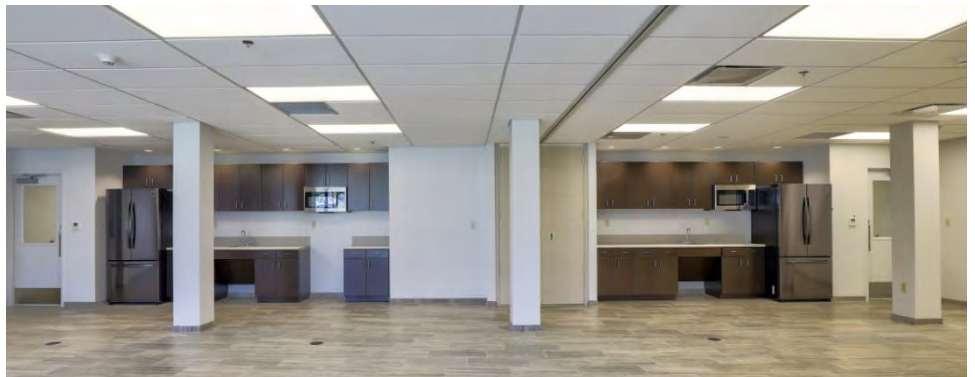
**Representative:**

Rob Hunt, E.I. PE  
City of Boca Raton,  
Utilities Services Dep.  
561-338-7364



### NEW INTERIOR AND EXTERIOR RENOVATIONS - 2021

- Men and women restrooms/locker rooms
- New meeting rooms and lunch rooms
- Updated electrical room, janitors room, and storage rooms
- Added a new elevator
- Added stairs on the exterior of the building
- Adjusted the parking and sidewalks





## BSO TRAINING CENTER AND PARKING GARAGE DCP



Fort Lauderdale, FL

**Owner:**  
Broward Sheriff's Office

**Owner's Representative:**  
Andrew Baker  
Director Planning,  
Development and Facilities  
954-831-8226

### Services Provided:

- Master Planning
- Programming
- Schematic Design
- Renderings
- Public Presentation Video
- Design Criteria Package
- Interior Design
- Site Plan Approval
- LEED Design
- Utilities Relocations with new Easement recording and abandonment.

### Pending Services:

- Construction Doc. Review
- Construction Oversight

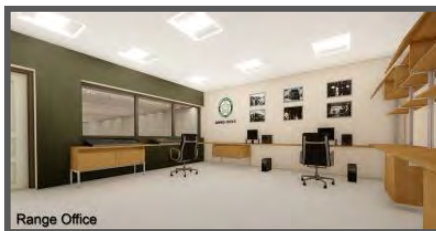


## TRAINING CENTER AND PARKING GARAGE

DESIGN CRITERIA PACKAGE FOR 705 VEHICLE PARKING GARAGE WITH 2-STORY, 90,000 SF TRAINING CENTER ON TOP.  
\$34,000,000.00 PROJECT BUDGET.  
CONSTRUCTION COMPLETION END OF 2023.

### PUBLIC PRESENTATION VIDEO:

[https://www.youtube.com/watch?v=LGz8Q\\_LfT6U](https://www.youtube.com/watch?v=LGz8Q_LfT6U)





## COCONUT CREEK PUBLIC WORKS BUILDING



### Location:

Coconut Creek, FL

### Owner:

City of Coconut Creek

### Owner's Representative:

Jim Berkman

Director of Public Works

954-956-1415

### Services:

- Architectural/Engineering
- Programming
- Cost Estimating
- Permitting
- Construction Administration
- LEED Design Components



### 25,000 SQ. FT. PUBLIC WORKS BUILDING

- 25,000 S.F. of enclosed space on two stories;
- South-facing 'Greenscreen' landscape element doubles as a sunscreen;
- North-facing expanse of glazing allows daylight in and ample views out for the staff office areas;
- Redundant mechanical systems utilized for critical operations;
- IT Server room and 911 Dispatch Center with raised floor access flooring;
- EOC Center with state-of-the-art communication and technology systems
- Green building design LEED "Certification"

## COCONUT CREEK PUBLIC WORKS BUILDING (RENDERINGS)





## CORAL SPRINGS WATER TREATMENT PLANT



**Location:**  
Coral Springs, FL

**Owner:**  
City of Coral Springs

**Owner's Representative:**  
Doug Hammann, P.E.  
954-510-4700

**Services Provided:**

- Full Architectural/Engineering
- Interior Design
- Agency Approvals
- LEED Design Components



- Administration building with lab, offices restroom and lockers.
  - SCADA
  - Central room
  - Category 5 hurricane resistant design
- Water plant safety assessment and improvement
- 40 year building inspection





# Past Performance Experience and Capabilities

There are always opportunities for improvement and higher quality, even when excellence has been achieved. While change for the sake of change does not bring value, our spirit of innovation encourages the sharing of ideas and experiences to find relevant, useful approaches that support improvements. A<sup>2</sup> brings a team with perspectives and experiences gained from other airports and clients. The following are some examples of where we can support innovation at BCAD moving forward.

## Experience with Roadway, Airfield, and Utilities Projects

### Inspection of Airfield Projects (FAA Advisory Circulars, Requirements, and Approval)

On an airport, understanding the Federal Aviation Administration (FAA) requirements is essential. We have experience not only on airfield and apron projects but also buildings in the Air Operations Area (AOA). The limitation imposed under the Airport Airspace Analysis (CFR Title 14, Chapter 1, Part 77) review apply not only to temporary obstruction like cranes and stockpiles but also to permanent features like buildings and fences. This evaluates the effect of any construction or alteration on existing and/or planned operating procedures and the potential hazard on air navigation. We have been responsible to complete the FAA Notice of Proposed Construction or Alteration (Form 7460) for many of his projects including the accompanying Construction Safety Phasing Plan. Once the Aeronautical Determinations of Impact/Aeronautical Studies are provided, our team has an excellent record of compliance with the requirements. Because the limits imposed by the airspace determinations can impose costly limitations on construction, real world experience is essential for sizing equipment and setting up project limits. We will coordinate with BCAD and the FAA on the requirements for any NOTAMs related to the construction project.

Security often has an amplified role in projects at the airport. Our team has completed projects inside and outside the SIDA and AOA with a variety of nuanced security challenges. For building projects, security considerations are involved when the building is in the Secure Identification Display Area (SIDA) or more commonly is a Fixed Base Operation (FBO) that is part of the secure line. We understand how to modify Security Plans and how to work with BCAD security and the Transportation Security Administration (TSA) to build consensus on the design recommendations as well as the project phasing. In recent

years, we have also constructed miles of secure fence with both manual and electric gates in coordination with airport security under the watch of the local TSA staff. The Advisory Circulars also can provide excellent guidance from FAA regarding the technical specifications for the lighting and CCR's.

In terms of FAA construction requirements, we are very familiar with the typical runway and taxiway specification sections P-211 (Limerock Course), P-401 (Asphalt Mix Pavement), P-501 (Cement Concrete Pavement), P-602 (Emulsified Asphalt Prime Coat), P-602 (Emulsified Asphalt Tack Coat), P-608 (Emulsified Asphalt Seal Coat) and P-626 (Emulsified Asphalt Slurry Seal Surface Treatment). We are well aware of the challenges of complying with these specifications in contrast with those of FDOT roadway construction standard specifications. For example, the required material properties and availability have been at issue on the last few projects pertaining to; 1) limerock and its maximum organic content; 2) concrete mix design aggregate granite met the properties but not readily available and vs limestone not meeting the properties but readily available.

### Inspection of Roadway Projects (FDOT Specifications, requirements and approval)

On projects based on Florida Department of Transportation (FDOT) standards, The A<sup>2</sup> Team will review the cover sheet of the plan set to identify the applicable Fiscal Year (FY) version of the FDOT Standard Specification for Road and Bridge Construction and Standard Plans (Index). A<sup>2</sup> will be responsible for interpreting plans, specifications, special provisions, maintaining complete and accurate records of all activities relating to the project, inspection and material verification testing and properly documenting all significant project changes including evaluation of the Contractor's project schedule.

Prior to construction beginning, A<sup>2</sup> will thoroughly photograph and video the construction site to document the pre-work conditions throughout the project limits as records in case of potential claims or other issues of possible public controversy. Progress photos and video will continue to be properly maintained and will aid in the proper documentation of monthly progress reports.

A<sup>2</sup> will monitor and oversee the Contractor's compliance with all permitting requirements, analyze problems that

# Past Performance Experience and Capabilities

may arise on the project, produce reports, verify calculations and field measurements for progress payments and coordinate Maintenance of Traffic (MOT) notifications.

As part of our inspection and verification testing process, we will ensure that the Contractor complies with established FDOT Job Guide Schedule and Contractor's Quality Control Plan (QCP). Once reviewed and approved, we must make sure that the QCP is properly adhered to or revised as required. In addition, A<sup>2</sup> will be responsible for reviewing the Contractor's QC Plans for off-site fabrication plants and shops.

The A<sup>2</sup> Team will conduct pre-activity meetings for categorical witness points and any additional witness points needed for safety. All of our CEI Inspectors have the prerequisite FDOT CTQP certifications for each scope of work being inspected (Earthwork, Asphalt, Concrete, Drilled Shafts, Piling, Noise Walls, etc.). Our experienced inspectors will utilize approved plans, shop drawings and product data as a source document for appropriate field verifications of the work. All material will be checked to verify the correct product is received and that no damage has occurred during shipping. Field sampling and testing of materials will be accurately conducted. Manufacturer's recommendation for installation will be reviewed and discussed with the Contractor. However, should field issues arise or be encountered that may or not be under the control of the Contractor, the A<sup>2</sup> Team will ensure that the issues are properly documented, coordinated and resolved.

Weekly progress meetings will be held with the Contractor to discuss among other things, submittal status, construction issues and status, and schedule updates. All meeting minutes will be properly and promptly distributed to keep everyone informed of project status and progress.

## *Cost Control/Final Estimates*

Our firm strongly believe that the key to cost control is careful planning and identifying potential problems for early resolutions. A<sup>2</sup> will maintain a cost control spreadsheet, by category of work, to monitor all additions and credits during the term of the contract. We will avoid delays by reviewing any cost loaded schedule for concurrence with the contract requirements, establishing SOV by assigning work categories correlating with construction phasing, and evaluating resources to prevent front loading and/or inappropriate allocations. The SOV will also be compared to the CPM on a monthly basis to establish

a correlation between progress payment and percent completion of major activities. We will review in detail the critical path on the monthly CPM update to identify any shifts in activities that will flag critical items that may affect timely completion of the project.

Another important way we control cost is our flexible staffing, which is address in the QA/QC Plan section. Accordingly, we have composed a team and staffing plan that will meet the needs of the project. We will constantly monitor construction schedules to ensure we are providing adequate and efficient resources.

## *Document Control*

Our Team is familiar with FDOT's project close-out procedures and always starts the organizational process prior to the start of construction. Our systematic approach to quality documentation processing has proven successful in ensuring timely final acceptance and error-free Final Estimate (FE) package. A<sup>2</sup> will prepare the close-out package immediately following final acceptance. Our process will facilitate the timely, complete and accurate submittal of the FDOT FE package. Daily Work Reports, Meeting Minutes, RFI's, Shop Drawings, Supplemental Agreements, Work Orders, Work Schedule (CPM), Geotechnical Reports, Materials Testing Reports / Certifications, Final Inspections, Warranties, Maintenance Transfer Agreements, Final Plans and other project documents will all be digitally organized in electronic format for final file retention.

We have successfully completed many projects with FDOT and are very familiar with the FDOT process and their requirements. Mr. Peter Nissen, P.E. will be assisting the team with Quality Assurance, technical and corporate support. Mr. Nissen was a long-time FDOT employee in FDOT District 4, including assignments as the District Maintenance Engineer and was responsible for District 4 permitting and emergency response efforts; he also served as the District Construction Engineer. He is very familiar with District 4 staff and will assist with coordination.

## **Inspection of Utilities Projects**

Airport utility projects could include fuel, gas, electrical, communications (wireless, aerial point-to-point, fiber and cable), water and sanitary sewer. Permitting, scheduling and phasing coordination are the most important administrative activities prior to the NTP of the project. Pre-construction activities for all underground work includes

# Past Performance Experience and Capabilities

soft digs to confirm elevations of existing utilities at the proposed intersection point. Another pre-construction activity on critical utilities adjacent to older facilities with limited as-built information may include pre-dig operations to assure there are no unknown conflicts.

One of the key aspects to identify early on utility projects is the need for dewatering based on the season and depth of the utilities. Many utility projects have the requirement to obtain permitting from the South Florida Water Management District (SFWMD) for dewatering in order to maintain utility clearances.

After the Contractor has been issued NTP, a pre-construction meeting will be held with BCAD and all stakeholders. Work will be coordinated with BCAD and prioritized based on the impact to the runways, taxiways and gates. With the date of commencement of construction assured any request for NOTAMs will be issued with two weeks' notice.

Once the Contractor has established the proper trench and excavation safety equipment in accordance with the OSHA 1926 (trench boxes, ladders, atmospheric testing, PPE, etc.) for the underground utility installations, we will verify the following as part of our inspection procedures: 1) Contractor has established a survey benchmark with a reference elevation; 2) Acceptable bedding and backfill material is on site; 3) Excavation is to the correct elevation to allow proper bedding depth to the stringline of the utility; 4) Utility is installed at the established design elevation; 5) Utility pipe is properly seated or connected at each joint; 6) Trench backfill is initiated at the maximum lift height; 7) Compaction is properly performed on first lift above static or lowest level of water and passing density testing results are achieved in accordance with the requirement of FDOT; 8) Trench box is removed as the backfill and compaction operations concurrently continue per OSHA 1926; 9) Depending on the utility, flushing, proofing, pressure testing and bacteriological testing would occur after a passing pressure test; 10) Survey data (vertical and lateral) and GIS data are recorded of the utility location as part of the project as-builts; 10) All temporary protection is removed along the perimeter of the work zone and the area is restored or awaiting next phase of construction

## Inspection of Bridges and Commissioning

Bridge inspection commences with the identification of

existing structures within the cone of influence of pile driving or drilled shaft operations. Any existing adjacent structures will be surveyed for structural conditions and the findings documented. This would include documenting through photographs and/or mapping of the existence of any observed settlement or cracks in the structure or shell. With the condition survey completed, the Contractor establish vibration and settlement monitoring of the structure during the pile driving or drilled operations as part of their foundation. Assuming piling (precast concrete or steel), the Contractor will establish the pile template and commence driving operations. Driving will be monitored through the either or both of the following methods: 1) Use of conventional methods of tracking blow counts, blows per minute and stroke heights with a Saximeter which is the basis for accurate pile driving log; 2) Pile Driving Analyzer (PDA) is a high strain dynamic load testing and pile driving monitoring system capable of performing dynamic load testing on most types of deep foundations. Through the use of a PDA, the pile bearing capacity and assessment of structural integrity can be achieve in the field as part of the driving operations.

Once the piles or the drilled shafts have met the design bearing capacity and a foundation certification is issued, the bridge substructure end bents and pier footing can be commenced. Many of the bridge substructure pier columns and caps are generally considered mass concrete requiring the monitoring the concrete internal temperature and providing external temperature control by means of blankets and insulation. After completion of the end bents and piers, the superstructure (steel plate girders, precast concrete ASSHTO or FIB beams, U-girders (post tensioned or conventional, straight or curved) and segmental components) can be erected on the bearing and braced as necessary. With the completion of the superstructure, the bridge deck can be constructed. As part of our CEI inspections all reinforcement in the footing, substructure, superstructure and deck is verified for conformance with design. This includes the reinforcement grade, bar size, number of bars, spacing of the bars, minimum lap of the bar to maintain the proper development length, number of reinforcement mats and proper external bar length beyond the construction pour joint. Each type of concrete poured in the footing, substructure, superstructure and deck is sampled and tested according to ACI to meet the design requirement. Quality Control concrete sample frequency taken by the Contractor is every 50 cubic yards or a day's production. The CEI takes a random sample for every four



# Past Performance Experience and Capabilities

samples taken by the Contractor for purposes of verification. All samples test results must compare as to meeting the minimum PSI strength established by the structural design.

Bridge deck section will be poured in accordance with the sequence identified by the structural engineer with the installation of the expansion joints or expansion assemblies. Depending on the length of the bridge, it is possible that a bridge may have several self-supported sections identified as a "Unit" with an expansion joint assembly to provide a good transition of the surfaces.

With the completion of the bridge deck, the only remaining activities and components are bridge grooving, traffic railing, median barrier wall (if required), lighting (if required), expansion joint and bridge painting. As part of the bridge commissioning and acceptance, the structural Engineer of Record will provide the updated Bridge Load Rating for review and capacity inventory by BCAD and FDOT.

## Quality Assurance Plan and Quality Assurance Materials Testing

### Quality Assurance Plan (QAP)

A<sup>2</sup> takes pride in its proactive Quality Assurance Plan (QAP) by tailoring it and our CEI team to the requirements of the project. All active personnel must perform work in accordance with FDOT QA/QC Critical Requirements and Guide Lists, proving their understanding by developing reports and conducting pre-work meetings corresponding to their assigned scope of work prior to the beginning of those work activities. The intent of our QAP is to ensure that all of the services and deliverables provided by A<sup>2</sup> meet our high standards for zero defects in addition to contract compliance. Our firm strongly believes that QAP not only benefits BCAD, but helps everyone involved on a project. The use and implementation of an excellent QAP plan leads to fewer mistakes and ensures that work is performed correctly the first time. These measures reduce waste of project resources, which lowers costs, raises productivity and increases worker moral.

The QAP will be developed and administered by Pete Nissen, P.E. making sure lessons learned from recent projects are included, ensuring reviews are performed as scheduled, and that any needs for improvement are immediately rectified. Within 30 days after receiving the

Notice to Proceed, we will furnish a QAP to BCAD which will identify lines of authority, responsibility and coordination with subconsultants, detail key management and administrative procedures, as well as procedures to assure complete and accurate documentation, permit monitoring, attention to safety, expeditious issue resolution, effective communication/coordination, and the follow-through of public concerns. A<sup>2</sup> will perform internal audit reviews at 30-60-90% to ensure that the project team is conforming to the QC Plan in order to secure a zero-error final estimate package.

Responsibility for quality starts from the top and permeates through the entire firm. Implementation of our plan is the daily responsibility of all personnel. It is part of their professional duties to ensure that safety, designs, pre-construction, materials and equipment, construction, craftsmanship, close-out, as-built drawings, warranty and management efforts are compliant with all applicable requirements, and that the procedures are followed.

The most important resource that A<sup>2</sup> brings to our projects is our people, professionals who are at the forefront in the industry for their competence and commitment. Because we want the best, we are committed to the continual training of our staff. New methods of construction, safety, and software programs are essential for improving procedures.

Construction projects require effective communication between all parties, with all types of available and current technology. The establishment of uniform communication protocols along with the clear obligations of all parties can significantly reduce communication issues that can often plague a project.

A<sup>2</sup> is a licensed Professional Engineering, Architecture, Landscape Architecture, and General Contracting firm, which means we have design and construction capabilities. We understand design criteria and the importance of keeping all of the designers, owners, and contractors in sync. We also have an advantage when it comes to performing reviews of design packages, because we understand both engineering and constructability issues. If required, our team will be responsible for overseeing the process of obtaining all of the permits required by the Local, Regional, State, and Federal agencies.

We will be responsible for overseeing project cost sheets,

# Past Performance Experience and Capabilities

estimates, budgets, master schedules, contract package schedules, change order tracking, RFI tracking, and reports. We will also prepare monthly and quarterly reports on the project status outlining the progress, cost, schedule, status of QAP process, issue resolution, etc. Our team will be in charge of the documentation of meetings, report writing, preparation of presentations, and preparation of correspondence. We will also establish and maintain filing systems.

Our team understands the importance of the layout of work and verification of correct placement, orientation, and elevation. Work that is not placed correctly will be documented and will result in corrective actions. Installation and maintenance operations must be treated with similar QC procedures as the fabrication was, specifically all procedures, checklists, and tests to be performed must be defined in advance and properly documented with the corresponding item. This also includes dismantling or removal of materials or equipment.

The daily inspections of work-in-progress will be performed by our Inspector, who will be verifying that design requirements were attained, previous work phases are complete, work was performed by qualified personnel, that only approved and proper quantity of materials are used, the scope of work requirements have been accomplished, installation specification and procedures have been met, the work phase is complete, and any quality problems have been corrected. The Senior Project Manager and Project Managers will also perform inspections together periodically.

## Quality Assurance Materials Testing

**Earthwork** - We will work with our subconsultant, H2R, on material sampling identification and laboratory testing for embankment materials. We will perform one random earthwork field density verification tests based on the proctor of the approved materials for every four Lots based on the material type (Subgrade, Stabilization and Base). We will sample for testing and conformance, perform stringline and witness depth check for the stabilization and base material.

**Utility Construction** – This has been identified in detail in Subsection c),3 above and as part of the preceding earthwork section.

**Asphalt Pavement** - we will work with our subconsultant H2R to analyze the random cores and certify the density and thickness in addition to a review of the spread rate. The final asphalt lift density test may also be taken by the nuclear gauge in backscatter mode. Our inspectors will field check mix temperatures on the first load of each design mix and every fifth load thereafter. Temperature readings must be within the master range, with consideration of the tolerance, per the approved design mix.

**Bridge Construction** - This has been identified in detail in Subsection c),4 above. In summary, reinforced steel will be checked for grade, type and size. Each concrete mix design will be sampled and tested for conformance every 50 cubic yards (Lot) and the CEI will per verification on a random Lot of every four. Our subconsultant, H2R, will perform the concrete cylinder breaks and certify the average PSI of the samples.

In addition to on-site inspections, some equipment and materials require specialized testing by a qualified independent agency. We will review the testing agency's name and credentials prior to the scheduled test. Our team will also forward all of the original certifications as well as the test reports to BCAD.

Every portion of each project will be inspected upon completion by our team. Any deficient work will be placed on a punch-list, which will be provided to the contractor, team members and the owner. Final inspections will ensure that all of the punch-list items have been taken care of.

Our team will be inspecting work using QA/QC checklists. Every deficiency discovered on the job site will be documented in a report for each project. A notice of deficiency, corrective action needed, and time to complete will be issued to the contractor to ensure that proper action is taken to correct the inadequacy.

Extensive QA/QC Plans require a vast amount of documentation. We will ensure that reports are orderly and easy to access. QA/QC logs will be submitted to the Senior Project Manager and Project Manager on a weekly basis. The manager will perform random audits on part of a project, an entire project, or the entire contract at any time.

All of our team will attend mandatory in-house QA/QC meetings on a scheduled basis. The meetings will focus on reviewing our procedures, discussing the status of the

# Past Performance Experience and Capabilities

various projects, discussing concerns, and brainstorming about solutions. Quarterly brainstorm meetings will be held with A<sup>2</sup>'s team in order to determine better ways to serve the client. Discussions will include all aspects of the QA/QC, Safety, Management Procedures, Project Controls, Document Controls, etc.

The A<sup>2</sup> team will keep a special log of nonconforming items. The deficiencies listed will be incorporated into a Deficient Work Tracking Log that will be used to track the defective work or materials until the problem is corrected. Our logs list a description of the deficiency, date discovered, the responsible party, corrective action required, and date corrected. The log is initialed twice, once by the team member that reports the deficiency and once by the team member that accepts the corrective measure. The log will help ensure that deficiencies are not forgotten or ignored.

A<sup>2</sup> believes that continuous evaluation and improvements to any QAP is necessary. Always striving for the zero defects goal ensures that the number of shortcomings is continually reduced.

## Experience and Capabilities in CAD/GIS

### CAD/3D Modeling

Our team has the capability CAD and 3D digital modeling of the projects including structural and mechanical systems with all of the elements. We utilize the appropriate software platform (Revit, Autocad, Navisworks, etc.) to most effectively design, review and document each project. Our work products, shared with BCAD and the contractor team, leverage the knowledge gained during the design and documentation phases to effectively coordinate the various trades during construction, thereby minimizing issues that commonly arise on complex projects. BIM will also allow the designers, contractors, and the Owner the ability to better understand the relationships of all the systems and components.

We have also utilized state of the art laser scanning technology to document existing conditions. The result is a highly accurate 3D computer model of existing conditions that includes enormous detail of site conditions. Mr. Regojo has worked on past projects where the Revit models have proven invaluable for the design, analysis and documentation of renovations to existing buildings.

### GIS/BIM (Building Information Modeling)

A<sup>2</sup> together with our Subconsultants have extensive knowledge and experience navigating BIM for airside and landside improvements for several current assignments. From programming through post-construction, we can help BCAD develop BIM standards, reconcile CADD and BIM standards, plan and execute BIM pilot projects, develop BIM language for RFP's and scope of work, and provide oversight of section designers and contractors.

Our team and partners can develop Civil3D styles to meet client CADD, GIS and BIM standards. For Airport projects, we use Civil3D in a model-based design approach for drainage, grading, roadway, elevated roadway, and utility design. This can be done with Autodesk products, including Revit Architecture, Revit Structure, Revit MEP, Civil3D, Navisworks and 3D Studio Max. By utilizing the fullest potential of three-dimensional data driven software, our team works early in design to detect clashes in the models when they can more easily be avoided or resolved and before they become problems in the field.

This technological approach also allows A<sup>2</sup> to produce information from the models to feed other processes such as schedules, quantities, earthwork volumes, phasing, and asset tracking pertaining to both underground utilities as well as building systems. BIM can also be used for visualizing design alternatives, storing architectural data (like load-bearing structures, ducts, pipes, etc.), extracting qualities and shared properties of materials, and assisting with facilities management throughout the lifecycle of the building.

GIS is not only critical for the location identification of new structures, hardware, components, underground utilities, it can play an integral part in the maintenance and repair of the asphalt pavement surfaces. GIS integration, techniques and procedures for data collection when using an Airport Pavement Management System (MicroPAVER, Pavement Analyst, SITECO, etc.) can also assist in creating strategies for collecting, analyzing, inventorying, maintaining, monitoring, reporting pavement data and decision-making recommendations for the maintenance of airport pavements in serviceable conditions for a given duration at a lowest possible cost.

### Automated Machine Guidance (AMG)

New technology is allowing for 3D models to be used to control construction equipment in a new process referred



# Past Performance Experience and Capabilities

to as Automated Machine Guidance (AMG). As the GPS receiving equipment improves, the achievable tolerance on the controls is becoming useful for controlling milling machines, asphalt and concrete paving machines, and slip form machines for curb and barrier wall. We have seen firsthand that on long limited access highway projects and it has been documented, that the implementation of AMG to complete the cross slope and profile corrections of the original pavement, prior to construction of widening, using 3D implementation yielded savings exceeding \$250,000. Although there are some non-technical cons such as the potential increased cost in survey, increased cost in design and getting the budget in place to do the projects, the technology is rapidly improving and the pros as previously discussed are worth considering. Our team is uniquely experienced with this cutting-edge technology and is ready to transition toward the future.

## GIS Based Field Technology

We will deploy proven standardized GIS Based field management tools coupled with best practice business processes to ensure the accurate collection of project data for timely decision making. By combining field management systems into a centralized project delivery system, BCAD will be able to obtain project data consistency and utilize proven standards deployed on projects. Our team has experience in extending field management systems onto mobile devices to ease data collection and reporting requirements, including the use of KMZ overlay files. We are prepared to rapidly deploy project business processes and supporting software systems to provide BCAD with state-of-the-art successful project management.

We are also adept at the use of mobile devices, such as tablets and smartphone applications. Inspectors and field staff will be able to have single point of data entries and the most up-to-date views of project information. This streamlines information and keeps the entire team up to speed in real time. iPads and tablet computers give personnel ready access to documents and information, facilitating convenient, fast access for reviews, annotations, and faster communication of questions and issues.

## Value Engineering Example

**On BP-495, East Airfield Taxiways Rehabilitation (TW's E & F) (FAA AIP #: 3-12-0057-120-2020) for the Greater Orlando Aviation Authority, two issues were encountered and**

**solutions value engineered.**

- 1) During the design phase of the BP-495 project, the expectation by the airport and EOR was that RWY 17L/35R should remain in service as much as safely possible. Construction Phase 4 identified nightly runway closures for electrical work crossing the runway. Performing the electrical on a part-time nightly basis would impact the completion of the contract. A value engineering alternative was to advance the work in to an earlier phase provided the aircraft traffic would not be impacted. Upon commencement of Construction Phase 2, with the closure of the Taxiway F, the project team observed that traffic on RWY 17L/35R was significantly reduced. After discussions with ATCT and GOAA Airfield Operations concerning the advancement of the work, the project team determined that the Phase 3 construction configuration, which indicated closing a portion of Taxiway N would make the continued use of RWY 17L/35R during Phase 3 impractical and undesirable. To assist ATCT and GOAA Airfield Ops, as well as increase the safety buffer area around the project limits for the Contractor, the work was authorized to be performed in Phase 3 while the RWY 17L/35R was closed.
- 2) Another value engineering recommendation related to the lights on the taxiway. The P-401 pavement activities on the taxiway were re-sequenced to pave the centerline first in order to expedite the custom order, arrival, and installation of taxiway centerline light top can sections. The reasoning for the re-sequencing dealt with the light fixture material procurement duration. The light fixture top can sections require custom ordering due to the inherent variability in paving thickness. Only after the P-401 pavement is installed over top of centerline light base cans, can the electrician perform a 2" core boring at each centerline light location to determine the custom height needed for each top can section. With the final height determined and recorded at each fixture location, the top can sections could then be ordered to fit each specific location.

## *Recommendations that were Accepted & the Benefits*

- (1) The revised phasing plan advancing the electrical work was accepted which accelerated the completion of

# Past Performance Experience and Capabilities

Phase 4 by 60 calendar days. This also assisted in mitigating impacts due to weather in order to complete the work within the contract duration.

- (2) Due to the current market conditions, procurement of taxiway light fixture top can sections is taking 8-12 weeks. By re-sequencing the paving operations, early as-built measurements and fixture release mitigated the potential impact or delay to the completion of the taxiway and possibly the contract completion date.

## Construction Management Plan (CMP) Approved by FAA

A<sup>2</sup> has individually and jointly, with the EOR, prepared Construction Management Plans (CMP) on our CEI aviation projects which have approved by the FAA on past projects. The most recent CMP was on Project BP-495, East Airfield Taxiways Rehabilitation (TW's E & F) (FAA AIP #: 3-12-0057-120-2020) for the Greater Orlando Aviation Authority. All of the plans address the Sponsor's Quality Assurance Plan, Quality Control Plans and the Quality Control Program. The QA Plan section addresses the organizational structure, Responsible Parties, Personnel Qualifications and Implementation. The QC Plan section identifies the contact information for the Sponsor, Engineer, CEI RPR and the Testing Laboratory Consultant. The QC Program section critical items such as the Project Progress Schedule, Submittal Schedule, Inspection Requirements and Quality Control Test Plan.

## Minimize Change Orders During Construction

In our opinion, there are several key ways to minimize change orders such as: 1) Having a CEI with actual construction experience performing the constructability review of the contract documents; 2) Securing all required permits and utility agreements in advance of construction; 3) Through review of the phasing plan with the BCAD Project and Construction Coordinator and understanding the seasonal schedule changes of the airlines and how it may affects the gates; 4) Detailed review of the Contractor's schedule and material availability; 5) Assurance that subsurface utility engineering (soft digs) have been performed at all utility crossing to avoid the potential for elevation conflicts

## Tab 4: Workload

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# Workload for Aviation Projects - Recent, Current, and Projected

Name	Status	Q1-18	Q2-18	Q3-18	Q4-18	Q1-19	Q2-19	Q3-19	Q4-19	Q1-20	Q2-20	Q3-20	Q4-20	Q1-21	Q2-21	Q3-21	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22
TASK 3 GOAA MANAGEMENT SERVICES																					
BP-495 Taxiway E, F, N Rehabilitation																					
H-S00025 Landscaping																					
BP-045 Taxiway K1	CLOSED																				
H-339 Taxiway Y Repairs	CLOSED																				
H-336 AS1 and AS3 Concrete Panel Replacement	CLOSED																				
E-S0009 Runway 17L ALSF-2 Replacement	CLOSED																				
TASK 4 GOAA VIRGIN TRAIN PROJ MGMT	CLOSED																				
BP-469 LOOP ROAD	CLOSED																				
BP-478 AIRRSIDE 1 & 3 APRON	CLOSED																				
V-00883 WEST MAIN STORAGE	CLOSED																				
H0093 LANDSIDE A & B	CLOSED																				
H-00299 AOA SECURITY FENCE	CLOSED																				
H-S00012 SOUTH APM FENCING	CLOSED																				
H-304 NTC LEVEL 1 GREASE TRAP	CLOSED																				
H-307 MCO EMPLOYEE PARKING	CLOSED																				
V-864 SANITARYGREASE LINE REPL	CLOSED																				
V-867 CENTERFIELD ARFF ADM BLDG	CLOSED																				
V-S0009 SOUTH ROADWAY OT-16 BRIDGE	CLOSED																				
H-312 AEROTERM STORM DRAINAGE	CLOSED																				
W-S00134 WAREHOUSE RENOVATION	CLOSED																				
H-00314 COMMERCIAL LANE	CLOSED																				
EP-00014 AIRSIDE 3 EMERGENCY REPAIR	CLOSED																				
GOAA MISC SMALL JOBS	CLOSED																				
EP-00023 CONCRETE DITCH	CLOSED																				
BP-S00165 WA 37-1 HEINTZELMAN RENT A CAR	CLOSED																				
BP-473 PARKING GARAGE	CLOSED																				
H-318 AISIDE 1 & 3 SLAB REPLACEMENT	CLOSED																				
OARW-S00137 SOUTH APM-ITF MISC WORK	CLOSED																				

# Workload for Aviation Projects - Recent, Current, and Projected

Name	Status	Q1-18	Q2-18	Q3-18	Q4-18	Q1-19	Q2-19	Q3-19	Q4-19	Q1-20	Q2-20	Q3-20	Q4-20	Q1-21	Q2-21	Q3-21	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22
H-323 JFB NB AT HEINTSELMAN BRIDGE	CLOSED																				
EP-000XX EMERGENCY REPAIR	CLOSED																				
BP-S00165 WA # 27 (added WA#37-3)	CLOSED																				
E-00254 REMOVE LINEAR LIGHT	CLOSED																				
V-881 DATRONICS SIGNS	CLOSED																				
BP43 RUNWAY INCURSION MITIGATION	CLOSED																				
WS-111 SOUTH TERMINAL COMPLEX	CLOSED																				
BP-486 RUNWAY 18L-36R	CLOSED																				
E-0255 RUNWAY 17L-35E	CLOSED																				
3-00253 ELECT MANHOLES 33 AND 37	CLOSED																				
V-928 AIRSIDE 3 RESTROOM MIRROR REPL	CLOSED																				
V-929 REPL BLDG 8550 ADD 8	CLOSED																				
BP-S00172 South Employee Lot	CLOSED																				
G-00034 SOUTH CELL LOT & TRAVEL	CLOSED																				
H-00326 SB JEFF FUQUA BLVD	CLOSED																				
H-327 Runway 18r/36L Shoulder Asphalt	CLOSED																				
V-948 Level 1B Side East	CLOSED																				
ES-10 Install Fountains at S APM Pond	CLOSED																				
V-930 Landside Level 3 Bottle Filling Station	CLOSED																				
G-S000001 Parking Garage C-Sign	CLOSED																				
38H-0003 Guardrail and Safety	CLOSED																				
V-943 GCI Small Job for GOAA - V-943	CLOSED																				
GCI Small Job for GOAA	CLOSED																				
GCI Small Job for GOAA	CLOSED																				
GCI Small Job for GOAA BP488	CLOSED																				
H-332 MCO Parking Bus Loop	CLOSED																				
H-331 A & B	CLOSED																				
V-952 QTA Building A1	CLOSED																				
H-318	CLOSED																				

## Tab 5: Location

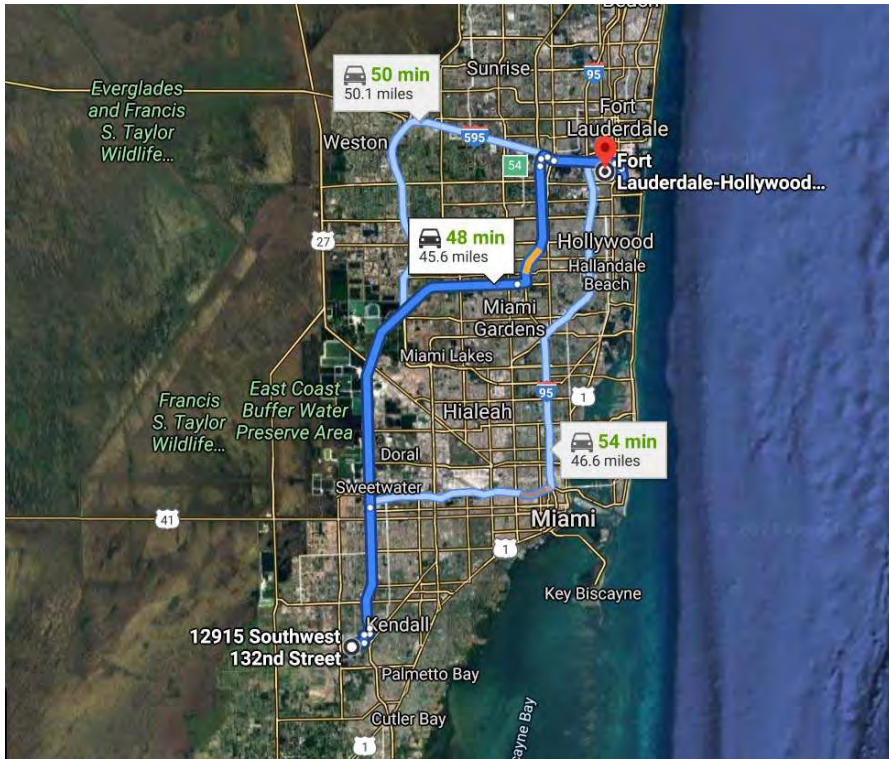
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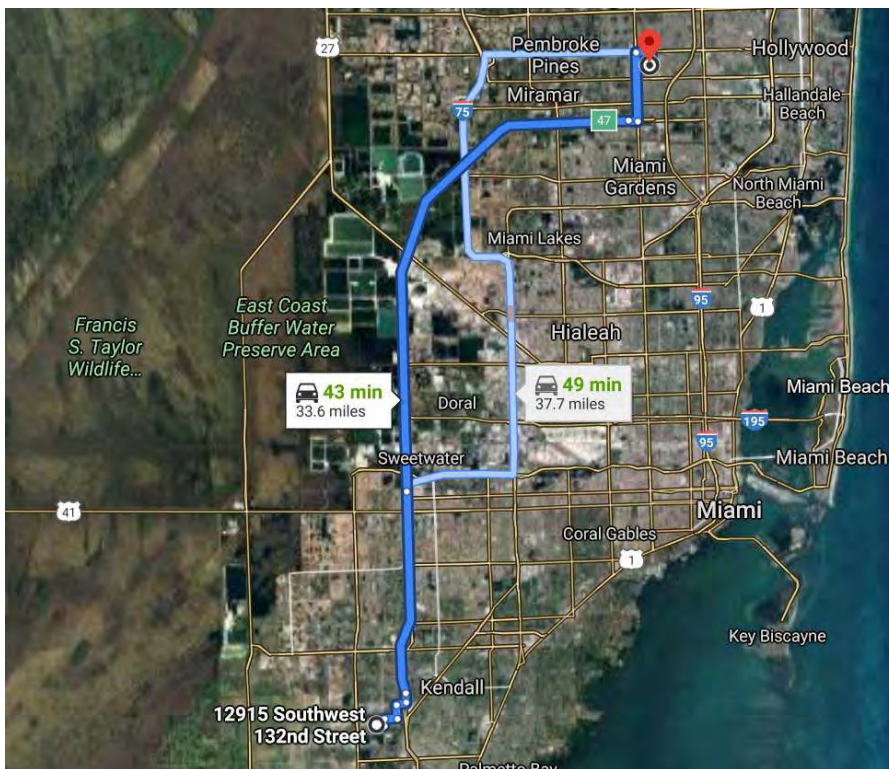


# Location

## Map from our Miami Office to FLL Airport



## Map from our Miami office to HWO Airport



### Distance:

1600 Harbor Drive, S.  
Venice, Florida

### Miami Office:

12915 SW 132nd St, Ste 5  
Miami, Florida 33186  
Tel: (305) 668-8939  
Fax: (305) 668-9454

### Corporate Contacts:

Alberto G. Ribas, P.E.  
Tel: (305) 668-8939  
ribasa@a2group.com

German Rey, Jr.  
Tel: (305) 668-8939  
reyg@a2group.com

### Proposed A<sup>2</sup> Staff:

- Alberto G. Ribas, P.E.
- Pete Nissen, P.E.
- Yesmin Cecilio, P.E.
- Christopher Kieffer
- Alex Salazar
- Hugo Beteta
- Ana Gonazalez
- Nilo Regojo, R.A.
- Juan Alonso
- David Howard
- Javier Tilano, P.E.
- Eric Jenkins, P.E.
- Ivan Morejon
- Mike Collins
- Pedro Guevara-Gonzalez
- Robert Moulton
- Tom Webb

### Web Address:

[www.a2group.com](http://www.a2group.com)

### Years in Business:

28 Years

# Supplier Response Form

## LOCATION CERTIFICATION

Refer to applicable sections for submittal instructions. Failure to submit required forms or information by stated timeframes will deem vendor ineligible for local preference or location tiebreaker.

Broward County [Code of Ordinances, Section 1-74](#), et seq., provides certain preferences to Local Businesses, Locally Based Businesses, and Locally Based Subsidiaries, and the [Broward County Procurement Code](#) provides location as the first tiebreaker criteria. Refer to the ordinance for additional information regarding eligibility for local preference.

### For Invitation for Bids:

To be eligible for the Local Preference best and final offer ("BAFO") and location tiebreaker, the Vendor **must** submit this fully completed form and a copy of its Broward County local business tax receipt **at the same time it submits its bid**. **Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the location tiebreaker.**

### For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For Local Preference eligibility, the Vendor **should** submit this fully **completed form** and **all Required Supporting Documentation** (as indicated below) at the time Vendor submits its response to the procurement solicitation. If not provided with submittal, the Vendor **must** submit within three business days after County's written request. Failure to submit required forms or information by stated timeframes will deem the Vendor ineligible for local preference.

To be eligible for the location tiebreaker, **the Vendor must submit this fully completed form and a copy of its Broward County local business tax receipt at the same time it submits its response**. Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

---

The undersigned Vendor hereby certifies that (check the box for only one option below):

- ☐ **Option 1:** The Vendor is a **Local Business**, but does not qualify as a **Locally Based Business** or a **Locally Based Subsidiary**, as each term is defined by [Section 1-74, Broward County Code of Ordinances](#). The Vendor further certifies that:
- A. It has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
    - i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
    - ii. in an area zoned for the conduct of such business,
    - iii. that the Vendor owns or has the legal right to use, and
    - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

If Option 1 selected, indicate **Local Business Location**:

- ☐ **Option 2:** The Vendor is both a **Local Business** and a **Locally Based Business** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:
- A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
    - i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
    - ii. in an area zoned for the conduct of such business,
    - iii. that the Vendor owns or has the legal right to use, and
    - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation as so defined, the "Local Business Location";

- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. Less than fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the owned, directly or indirectly, by one or more entities with a principal place of business Vendor located outside of Broward County is .

If Option 2 selected, indicate **Local Business Location**:

☐ **Option 3:** The Vendor is both a **Local Business** and a **Locally Based Subsidiary** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:

- A. The Vendor has continuously maintained:
  - i. for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
  - ii. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
  - iii. in an area zoned for the conduct of such business,
  - iv. that the Vendor owns or has the legal right to use, and
  - v. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. At least fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the Vendor owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County is .

If Option 3 selected, indicate **Local Business Location**:

☐ **Option 4:** The Vendor is a **joint venture** composed of one or more Local Businesses, Locally Based Businesses, or Locally Based Subsidiaries, as each term is defined by Section 1-74, Broward County Code of Ordinances. Fill in blanks with percentage equity interest or list "N/A" if section does not apply. The Vendor further certifies that:

- A. The proportion of equity interests in the joint venture owned by **Local Business(es)** (each Local Business must comply with all of the requirements stated in Option 1) is  % of the total equity interests in the joint venture; and/or
- B. The proportion of equity interests in the joint venture owned by **Locally Based Business(es)** (each Locally Based Business must comply with all of the requirements stated in Option 2) is  % of the total equity interests in the joint venture; and/or



- C. The proportion of equity interests in the joint venture owned by **Locally Based Subsidiary(ies)** (each Locally Based Subsidiary must comply with all of the requirements stated in Option 3) is % of the total equity interests in the joint venture.

If Option 4 selected, indicate the Local Business Location(s) (es) on separate sheet.

- ☒ **Option 5:** Vendor is not a Local Business, a Locally Based Business, or a Locally Based Subsidiary, as each term is defined by Section 1-74, Broward County Code of Ordinances.

**Required Supporting Documentation** (in addition to this form): Option 1 or 2 (**Local Business or Locally Based Business**):

1. Broward County local business tax receipt.

**Option 3 (Locally Based Subsidiary)**

1. Broward County local business tax receipt.
2. Documentation identifying the Vendor's vertical corporate organization and names of parent entities if the Vendor is a Locally Based Subsidiary.

**Option 4 (joint venture)** composed of one or more Local Business(es), Locally Based Business(es), or Locally Based Subsidiary(ies):

1. Broward County local business tax receipt(s) for each Local Business(es), Locally Based Business(es), and/or Locally Based Subsidiary(ies).
2. Executed joint venture agreement, if the Vendor is a joint venture.
3. If joint venture is comprised of one or more Locally Based Subsidiary(ies), submit documentation identifying the vertical corporate organization and parent entities name(s) of each Locally Based Subsidiary.

**If requested by County (any option):**

1. Written proof of the Vendor's ownership or right to use the real property at the Local Business Location.
2. Additional documentation relating to the parent entities of the Vendor.
3. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement.
4. Any other documentation requested by County regarding the location from which the activities of the Vendor are directed, controlled, and coordinated.

By submitting this form, the Vendor certifies that if awarded a contract, it is the intent of the Vendor to remain at the Local Business Location address listed below (or another qualifying Local Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

**Indicate Local Business Location:**

**True and Correct Attestations:**

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

**AUTHORIZED SIGNATURE/NAME:**

**TITLE:**

VENDOR NAME:

DATE:

Revised May 1, 2021

## Tab 6: Time and Budget

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# Time and Budget

## Commitment

The A<sup>2</sup> team is fully committed to meeting the time and budget requirements when they are identified for assignments under this agreement.

At A<sup>2</sup>, we are committed to meeting and exceeding our client's goals including:

- Completing our assignments within the schedule and budget agreed to
- Meeting and/or exceeding the project DBE goal of 16%
- Completing construction of projects within time and cost goals
- Delivering a high-quality project that meets and exceeds BCAD's needs and expectations
- Closing out projects in a timely fashion

## Time

Contract duration or contract time is the maximum time allowed for the completion of all work described in the contract documents. The determination of contract time affects not only the duration of the construction project, but also such aspects of the construction process as costs, equipment allocation, selection of contractors, and traffic problems. The duration of any particular project is ultimately determined by a wide range of factors, such as the type, complexity and size of the project, project urgency, budget, bid time, permits, material delivery, utilities, environmental concerns, maintenance of traffic (MOT) requirements, political sensitivity, and decisions and policies. A<sup>2</sup> has the knowledge and experience in all of the areas of construction. We understand the inherent uncertainties in a project, have insight into the construction market, and understand our client's objectives and constraints.

The preferred scheduling technique that we use to determine contract time is the critical path method (CPM). CPM scheduling not only helps determine, but also maintain the scheduled contract time. It has been our experience and our belief that the process of the development of a bar chart and CPM are similar. The advantage of a CPM is that it can be incorporated into a scheduling program such as Primavera P6™ and “what if” analysis can be performed. Thus, with greater ease and effectiveness various scenarios to the project sequencing can be analyzed. The best approach in the determination of contract time is a procedural or step by step approach. They begin with the analysis of the maintenance of traffic, and phasing and a determination of the variety of project task or activities along with their respective assignment of material quantity. The quantities for each activity are converted into workdays using established production rates and charts. Utility relocation durations are assigned, and all of the activities are logically related to each other by assignment of predecessors and successors. The schedule is calculated with the use of a CPM scheduling program (Primavera P6™) and a 7 day per week calendar is assigned to a global activity (hammock or level of effort activities) that simulates and is equivalent to the total project duration. The incorporation of the submittal requirements into the schedule including approval, fabrication and delivery activities are vital. These activities may affect the critical path or the controlling items of work and thus affect the project duration. Also, A<sup>2</sup> uses



# Time and Budget

the addition of a “what-if” analysis after all of the project activities and their respective durations are determined and assigned to the proper phase. Sometimes it becomes apparent from the schedule that a change in the MOT or phasing will significantly reduce the overall project duration.

The successful contractor on a project is responsible for preparing and submitting a realistic construction schedule. This initial submittal is extremely important for the purposes of administering the contract and for the defense of schedule related claims. The initial submittal is often termed the “AS-PLANNED” schedule and is a representation of the contract agreement. This schedule is reviewed for conformance to the contract specifications and scope of work. It must follow the MOT plan or phasing plan (if any) in addition to project milestones as presented in the contract documents. The schedule activities must describe in sufficient detail discrete work operations and the aggregate of all activities define the complete project scope including “not-in-contract” (NIC) work by other contractors and all contract submittal requirements. Further, the schedule must be logical to the sequence of operations, and it is generally cost loaded and correlated to the bid items on the bid sheet.

Once the Contractor's as-planned or baseline schedule is approved, the Contractor will be required to maintain it as the best possible representation of the work performed and work planned. Basically, on a monthly basis, the Contractor will be required to submit an updated schedule that best represents the current status of the project. This updated schedule must include the actual start dates as well as the remaining durations of all the activities that have been started. The schedule will also include the actual start and finish dates of all of the activities completed. The schedule updates must be submitted as an electronic file containing the CPM schedule data. This is extremely useful in review of the schedule submittals. We have established procedures and computer programs that enable the scheduler the ability to quickly identify the slightest schedule modification or variance from the previous update or any other individual schedule or schedule groups. This also allows the user the ability to identify and quantify any schedule logic revisions, activity additions or deletions, changes in descriptions, out-of-sequence work, duration changes, constraint modifications, calendar modifications, critical path changes, new critical activities, previously critical activities, cost changes, and quantity changes. The wealth of information obtained is invaluable in the process of schedule reviews and in the analysis of schedule related claims.

Our goal is to avoid schedule related claims through a process of planning and development which results in effective contract documents and procedures. In most cases, claims initiated by the Contractor are due to inadequate investigation of work sites and working conditions, bidding below cost, poor planning, failure to follow required procedures, unforeseen conditions, errors in the plans and specifications, inadequate bidding information, interference by others, inadequate or late response to questions, excessive approval durations, excessive contract changes, excessively rigid specifications, and narrow interpretation of the plans and specifications. The risk of occurrence of many of the aforementioned can be reduced through proactive programs and





# Time and Budget

procedures. Over the years, A<sup>2</sup> has established and refined such programs and procedures that contribute to the reduction of schedule related claims. These include constructability reviews, value engineering reviews, partnering programs, strong utility coordination and geotechnical investigation programs and procedures to ensure timely responses to contractor submittals and questions. Further, the day-to-day project management by A<sup>2</sup>, especially being in constant contact with the Contractor can both identify and resolve possible claim generating issues. A<sup>2</sup> fully understands and believes in the existing proactive approaches and procedures to schedule related claims.

## Budget

### ***Fiduciary Responsibility***

A<sup>2</sup> specializes in public projects. In fact, approximately 95% of our work is for government agencies. We strongly believe that this requires a moral obligation to the taxpayers, residents, owners, and end users. It is our responsibility to use our professional knowledge and experience to maximize the budget.

Our fiduciary responsibility starts with the pre-construction phase. We believe that planning is the best way to avoid future issues. This includes composing estimates that are true to market conditions so the designs can be altered to meet the budget. BCAD needs a clear understanding of the costs associated with the project.

While in the construction phase, our responsibility includes quality assurance, monitoring expenditures, and ensuring the work is reasonable conformance with the contract documents.

The close-out phase is also an important part of our fiduciary responsibility. It is a time when we focus on reconciling costs. At A<sup>2</sup>, we realize that we are the caretakers of the public. It is our obligation to use our knowledge and experience to provide a high-quality project within budget.

### ***Cost Estimating Methods***

A<sup>2</sup> has performed estimates during the conceptual, design development and construction development phases of several projects. The scope of work of the projects have included new construction of multi-story buildings, building renovations consisting of architectural features, structural repair and reinforcement, interior finishes, mechanical and electrical retro-fits. The civil portion of these projects have included aviation airfields, roadways, parking facilities, tunnels, drainage culverts, trenches and reservoirs, water, sanitary and other vital utilities, landscaping, irrigation systems. Our team can provide a range of options for estimates, from a spreadsheet to integrated software systems.

As part of our CEI services, we have used the following types of estimates:

- Lump Sum Estimate
- Unit Price Estimate
- Quantity Survey





# Time and Budget

## *Lump Sum Estimate*

In a lump sum estimate, a fixed price is compiled based on a specific scope of work detailed in the plans and specifications. With the lump sum estimate, the contractor agrees to perform the work although the cost may exceed the fixed price. As a result, BCAD can make project financial arrangements.

The estimate is evaluated by a quantity survey or quantity takeoff of the materials and items of work specified. The quantities are organized by the work divisions established by the Construction Specification Institute (CSI). Costs are calculated based on the quantities of labor, materials, equipment, permits, taxes, bonds and overhead. As a result, the total value of each CSI division becomes the project cost. Additionally, a markup is added to the total cost and ultimately yields the lump sum estimate or bid for the scope of work.

## *Unit Price Estimate*

In a unit price estimate, a fixed price is compiled based on total quantity of work detailed in the plans and specifications. Typically, these quantity estimates or bids are provided by the project Architect or Engineer for work that can be easily quantified such as engineering construction projects. These quantities are not guaranteed minimum or maximums. Unlike lump sum bids, unit price bids do provide an easier means of bid comparison and evaluation.

## *Quantity Survey*

As in the lump sum estimate, a quantity survey is composed for each specific bid item. The quantity survey serves as a means to validate the architect-engineer estimated bid quantities. The estimator must analyze all costs of labor, material, equipment, permits, taxes, bonds, overhead and markup based on each bid item. The value is known as the unit price per bid item. The sum total of all quantities multiplied by their respective unit price is the anticipated project cost or bid for the scope of work. The actual project cost could vary based on the quantities of bid items installed on the project.

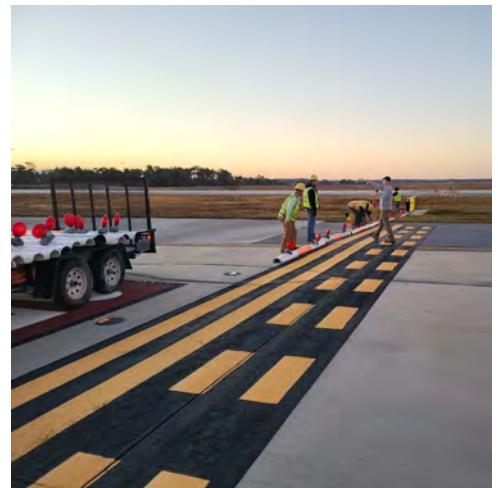
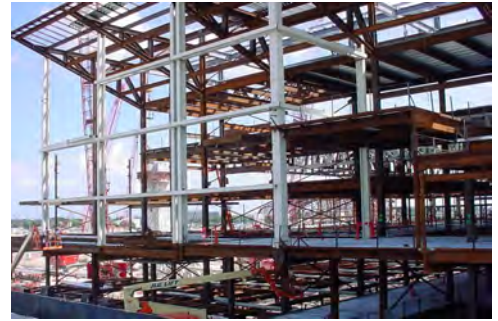
## *Cost Analysis*

Our team has also provided the following types of cost analysis to our clients:

- Initial Cost Analysis
- Detailed Cost Analysis
- Cost Analysis Updates
- Life-Cycle Cost Analysis
- Change Order Costing

## *Coordination*

Subsequent to all reviews and coordination meeting with the owner, we will organize a pre-estimate conference. The specific issues to be addressed include



# Time and Budget

but are not limited to:

- Describe scope of work
- Establish lines of communication
- Review MOT phasing
- Safety
- Emergency contacts
- Permits
- Inspections
- Quality
- Review Existing Utilities
- Project Schedule
- Project Meeting

## *Project Management*

During the project management stage, A<sup>2</sup> can monitor the progress of all scheduled project activities and provide recommendations reports on a monthly basis. Our firm can provide independent cost estimates regarding all additional or change order work. We can also issue all necessary responses to questions and communications regarding the project budget and cost of completion.

## **Cost Control Methods**

Time & Budget The keys to cost control include identifying potential issues and frequently updating the recordkeeping. We cannot stress the importance of planning during pre-construction enough. The plans will be reviewed by our Senior Project Manager, Project Manager, Project Controls and Inspectors. They have extensive experience with designs and construction, which makes their input and planning invaluable. They understand the scope, the designs, and construction methods, which is invaluable for the constructability review.

With our team's expertise, we are able to proactive, not reactively, identify and implement our management plan to ensure the project runs smoothly in terms of cost controls, quality, and scheduling. Our knowledge and findings are clearly communicated with BCAD and potential subcontractors. We want everyone on the same page.

During construction, accurate record keeping is an essential tool. Our Project Controls Specialist and Project Manager input all financial transactions in order to provide precise reports for the Project Manager and Senior Project Engineer. These reports give them a clear indication of the progress and possible problems on the project. Measures can quickly be taken to correct any deviations as well as detect possible areas for possible cost savings.



## Tab 7: Licenses and Certifications

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# Insurance Certificates



A2GROUP-01

LGLEASON

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
8/31/2021

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

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

<b>PRODUCER</b> CAL Risk Management 23 Eganfuskee Street Suite 102 Jupiter, FL 33477		<b>CONTACT NAME:</b> Lori B. Gleason <b>PHONE (A/C, No, Ext):</b> (561) 776-9001 <b>FAX (A/C, No):</b> (561) 427-6730 <b>E-MAIL ADDRESS:</b> lgleason@callic.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	
		<b>INSURER A:</b> Travelers Indemnity Co. of America	
		<b>INSURER B:</b> Travelers Property & Casualty Co. of America	
		<b>INSURER C:</b> Travelers F9209	
		<b>INSURER D:</b>	
		<b>INSURER E:</b>	
		<b>INSURER F:</b>	

**COVERAGES** **CERTIFICATE NUMBER:** **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE		ADDL SUBR INSD. WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS					
A	X	COMMERCIAL GENERAL LIABILITY		6607J451523	9/1/2021	9/1/2022	EACH OCCURRENCE	\$ 1,000,000				
		CLAIMS-MADE					X	OCCUR	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,000		
	X	XCU & Contractual					MED EXP (Any one person)	\$ 5,000				
							PERSONAL & ADV INJURY	\$ 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$ 2,000,000				
		POLICY					X	PRO-JECT		LOC	PRODUCTS - COMP/OP AGG	\$ 2,000,000
		OTHER: Capped at \$10,000,000									\$	
											\$	
B	AUTOMOBILE LIABILITY			8105N811463	9/1/2021	9/1/2022	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000				
	X	ANY AUTO						BODILY INJURY (Per person)	\$			
		OWNED AUTOS ONLY						BODILY INJURY (Per accident)	\$			
		HIRED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$			
								PIP Coverage	\$ 10,000			
B	X	UMBRELLA LIAB	X	OCCUR		CUP7J606758	9/1/2021	9/1/2022	EACH OCCURRENCE	\$ 4,000,000		
		EXCESS LIAB		CLAIMS-MADE					AGGREGATE	\$ 4,000,000		
		DED	X	RETENTION \$ 10,000						\$		
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			UB7J455208	9/1/2021	9/1/2022	X	PER STATUTE		OTH-ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						Y / N	N / A	E.L. EACH ACCIDENT	\$ 1,000,000		
	If yes, describe under DESCRIPTION OF OPERATIONS below								E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000		
									E.L. DISEASE - POLICY LIMIT	\$ 1,000,000		
C	Inland Marine			6307J460034	9/1/2021	9/1/2022	Rented/Leased Equip.		530,000			
C	Inland Marine			6307J460034	9/1/2021	9/1/2022	Scheduled Equipment					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Certificate holder is included as additional insured for both ongoing and completed operations for general liability per CGD246 on a primary & non-contributory basis and automobile liability when required by written contract. Waiver of subrogation applies to general liability, automobile, and workers' compensation for the additional insureds when required by written contract. Umbrella extends over general liability, auto liability, and employer's liability. Cancellation: 30-days' notice of cancellation applies except 10-days for non-payment of premium per policy terms and conditions.

### CERTIFICATE HOLDER

A2 Group Inc.  
 \*\*\*FOR INFORMATION ONLY\*\*\*  
 12915 SW 132nd Street  
 Miami, FL 33156

### 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

Lori B. Gleason

ACORD 25 (2016/03)

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# Insurance Certificates



## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/22/2022

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

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

<b>PRODUCER</b> Hansen Insurance, LLC 4590 N. Meridian Avenue Miami Beach, FL 33140 License #:A307619		<b>CONTACT NAME:</b> Rick Hansen <b>PHONE (A/C, No., Ext):</b> (305) 674-9998 <b>FAX (A/C, No):</b> (305) 674-9998 <b>E-MAIL ADDRESS:</b> rick@hanseninsurancefl.com	
<b>INSURED</b> A2 Group, Inc. P. O. Box 432310 South Miami, FL 33243 305 668-8939		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> Pacific Insurance Company, Ltd <b>NAIC #</b> 10046 <b>INSURER B:</b> <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	

### COVERAGES

### CERTIFICATE NUMBER:

### REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, describe under DESCRIPTION OF OPERATIONS below					PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability		01 OH 0441315-22	3/21/2022	3/21/2023	each claim annl. aggr. 2000000 4000000

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

Professional Liability insurance is written on a claims-made and reported basis.

### CERTIFICATE HOLDER

### CANCELLATION

For Proposal Purposes	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

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## *State of Florida Department of State*

I certify from the records of this office that A2 GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on February 8, 1994.

The document number of this corporation is P94000010140.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 7, 2022, 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 Seventh day of January, 2022*



*Randy Be*  
**Secretary of State**

Tracking Number: 9001029559CC


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# Professional Licenses

## Architecture



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**LICENSEE DETAILS**

**This is a business tracking record only.**  
Click here for information on how to verify that this business is properly licensed.

10:42:29 PM 3/6/2022

**Licensee Information**

Name:	A2 GROUP INC (Primary Name)
Main Address:	PO BOX 43-2310 MIAMI Florida 33243-2310
County:	DADE
License Location:	12915 SW 132 STREET SUITE 5 MIAMI FL 33186
County:	DADE

**License Information**


License Type:	Architect Business Information
Rank:	Business Info
License Number:	
Status:	Current
Licensure Date:	04/21/2021
Expires:	

**Special Qualifications**

Corporation	Qualification Effective 04/21/2021
-------------	---------------------------------------

**Alternate Names**

## Engineering



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**LICENSEE DETAILS**

1:22:35 PM 2/17/2022

**Licensee Information**

Name:	A2 GROUP, INC. (Primary Name)
Main Address:	P O BOX 43-2310 MIAMI Florida 332432310
County:	DADE
License Location:	12915 SW 132 STREET SUITE 5 MIAMI FL 33186
County:	DADE

**License Information**

License Type:	Registry
Rank:	Registry
License Number:	7338
Status:	Current
Licensure Date:	11/02/1995
Expires:	


**Special Qualifications**

	Qualification Effective
--	-------------------------

**Alternate Names**

# Professional Licenses

## Landscape Architecture

**Florida**  
dbpr  
Department of Business  
& Professional Regulation

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LICENSEE DETAILS

**This is a business tracking record only.**  
Click here for information on how to verify that this business is properly licensed.

**Licensee Information**

Name:	A2 GROUP INC (Primary Name)
Main Address:	P O BOX 432310 MIAMI Florida 33243
County:	DADE

**License Information**

License Type:	Landscape Architecture Business Information
Rank:	Business Info
License Number:	
Status:	Current
Licensure Date:	02/01/2005
Expires:	


**Special Qualifications**

Qualification Effective	
Corporation	02/01/2005

**Alternate Names**

--

## General Contracting

**Florida**  
dbpr  
Department of Business  
& Professional Regulation

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1:20:53 PM 2/17/2022

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LICENSEE DETAILS

**Licensee Information**

Name:	RIBAS, ALBERTO G (Primary Name) A2 GROUP INC (DBA Name)
Main Address:	PO BOX 432310 SOUTH MIAMI Florida 33143-2310
County:	DADE
License Mailing:	PO BOX 432310 MIAMI FL 33243-2310
County:	DADE
License Location:	12915 SW 132 STREET SUITE 5 MIAMI FL 33186
County:	DADE

**License Information**

License Type:	Certified General Contractor
Rank:	Cert General
License Number:	CGC045136
Status:	Current,Active
Licensure Date:	08/18/1988
Expires:	08/31/2022

**Special Qualifications**


Qualification Effective	
Construction Business	02/20/2004

**Alternate Names**

--

# Professional Licenses

## Underground Utility and Excavation Contracting

 **Florida dbpr** Department of Business & Professional Regulation

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1:16:48 PM 2/17/2022

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**LICENSEE DETAILS**  
**Licensee Information**

Name:	RIBAS, ALBERTO G (Primary Name) A2 GROUP INC (DBA Name)
Main Address:	PO BOX 432310 SOUTH MIAMI Florida 33143-2310
County:	DADE
License Location:	12915 SW 132 STREET SUITE 5 MIAMI FL 33186
County:	DADE

  
**License Information**

License Type:	Certified Underground Utility and Excavation Contractor
Rank:	Cert Under
License Number:	CUC056689
Status:	Current,Active
Licensure Date:	08/02/1993
Expires:	08/31/2022

<b>Special Qualifications</b>	<b>Qualification Effective</b>
Construction Business	02/20/2004

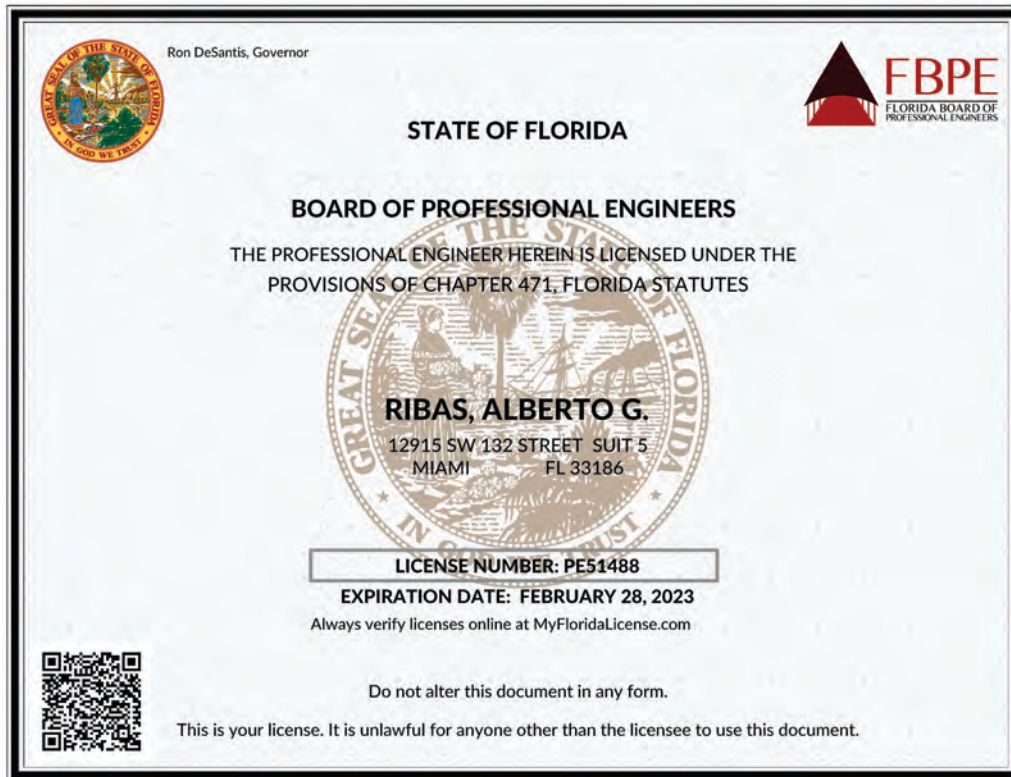
  
**Alternate Names**

--



# Senior Project Engineer's Professional Licenses

## Engineering



## Landscape Architect

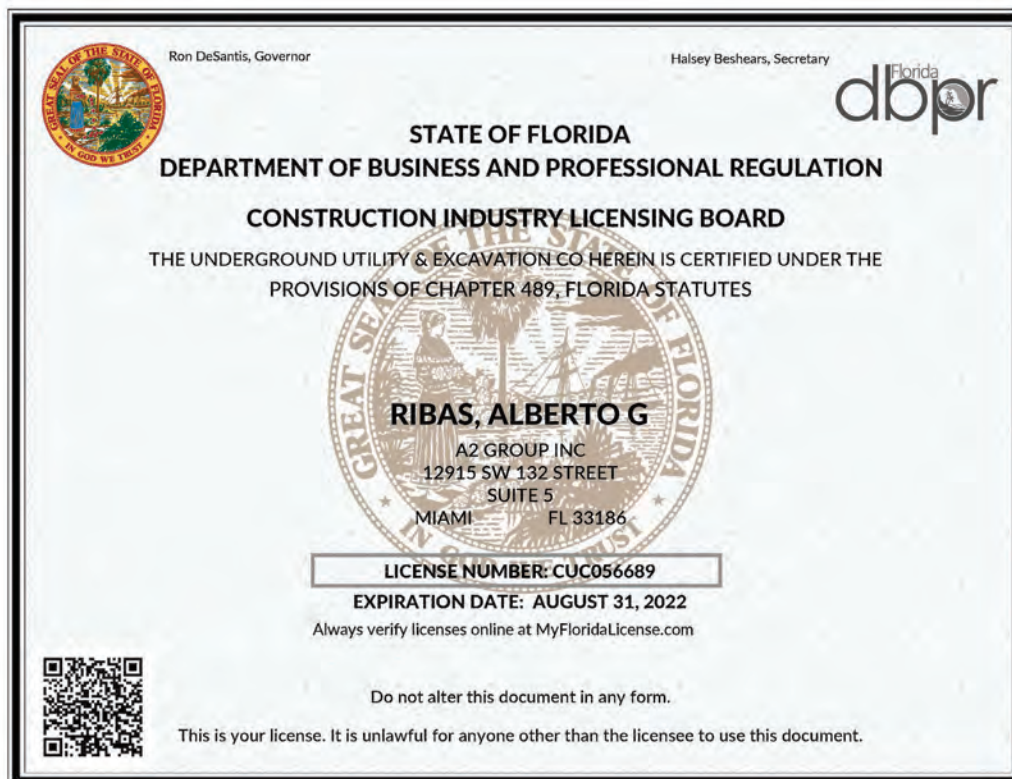


## Senior Project Engineer's Professional Licenses

## General Contractor



## Underground Utility/ Excavation



# DBE Certification

## DBE Certification

A<sup>2</sup> Group, Inc. is a certified Disadvantaged Business by the Florida Unified Certification Program.

## DBE Utilization

When selecting subconsultants and sub-contractors, A<sup>2</sup>'s objective is to seek, train and expand the use of Disadvantaged Business Enterprises (DBEs). Thereby helping them become more stable, successful, knowledgeable, competitive members of the business community. As a disadvantaged business, we recognize the value of having a stake in our economic system. Our experience has shown, when given the proper training and opportunities, that all participants can and will excel.

We have selected several firms that are certified as DBE. Their certifications are included in this section of the proposal. A<sup>2</sup> is dedicated to working with the local communities and Counties to recruit participation of and to broaden the entrepreneurial base of DBEs. We will also recruit through referrals and ads in the local newspaper publications.

Over the last five years, we have been able to demonstrate at GOAA that we can meet and/or exceed the Federal DBE goals that were established on all our projects.



### ANNIVERSARY DATE - Annually January 25<sup>th</sup>

**A2 GROUP INC** has been certified under Florida's Unified Certification Program (UCP) as a Disadvantaged Business Enterprise (DBE) in accordance with 49 Code of Federal Regulation Part 26.

**DBE Certification does not expire.** It is contingent upon the firm maintaining eligibility annually through this office. Owners will be notified of their responsibilities in advance of the anniversary date.

The firm is listed in Florida's DBE Directory which can be accessed at the following link:  
<http://www3b.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/>

Prime contractors and consultants must verify the firm's DBE certification status, and identify eligible work area(s) through the Directory. The Department's DBE Support Service Providers are available, offering managerial and technical assistance at no cost.

Contact us at (850)414-4747 or via email [DBECertHelp@dot.state.fl.us](mailto:DBECertHelp@dot.state.fl.us)

Victoria Smith  
DBE Certification Manager



## *State of Florida Department of State*

I certify from the records of this office that ARGUS CONSULTING, INC. is a Georgia corporation authorized to transact business in the State of Florida, qualified on May 28, 1996.

The document number of this corporation is F96000002654.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 31, 2022, and that its status is active.

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

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Third day of February, 2022*

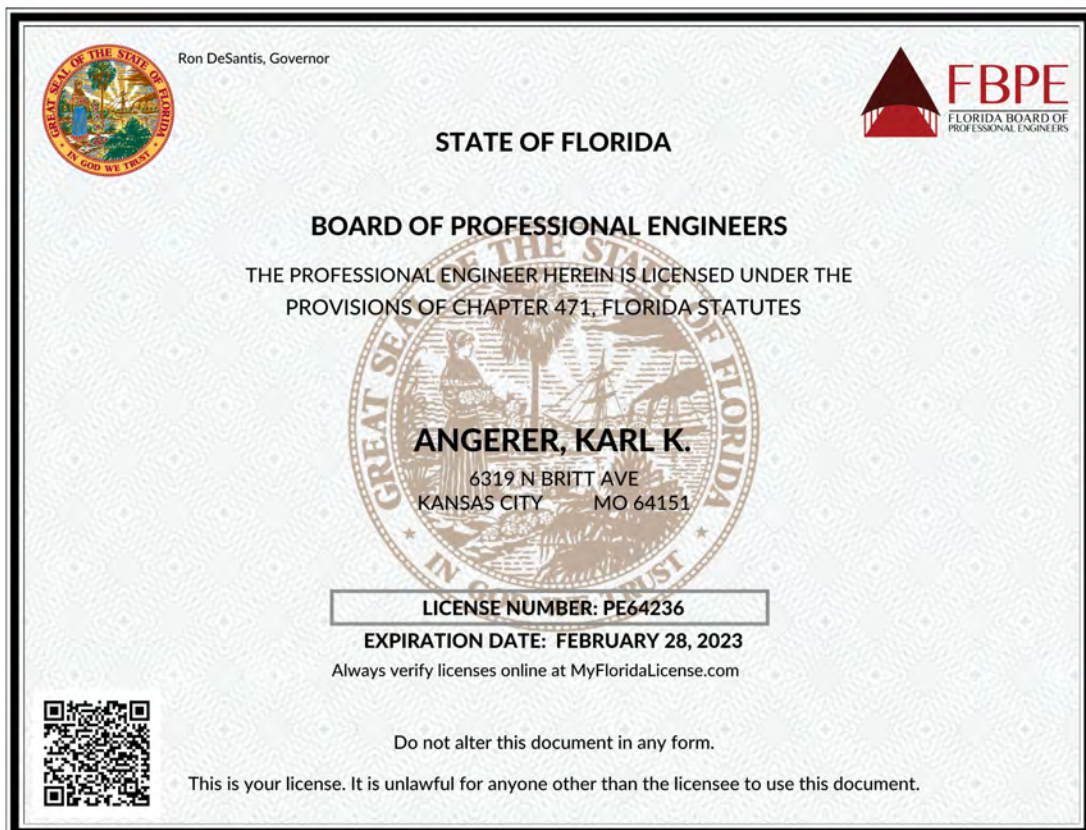
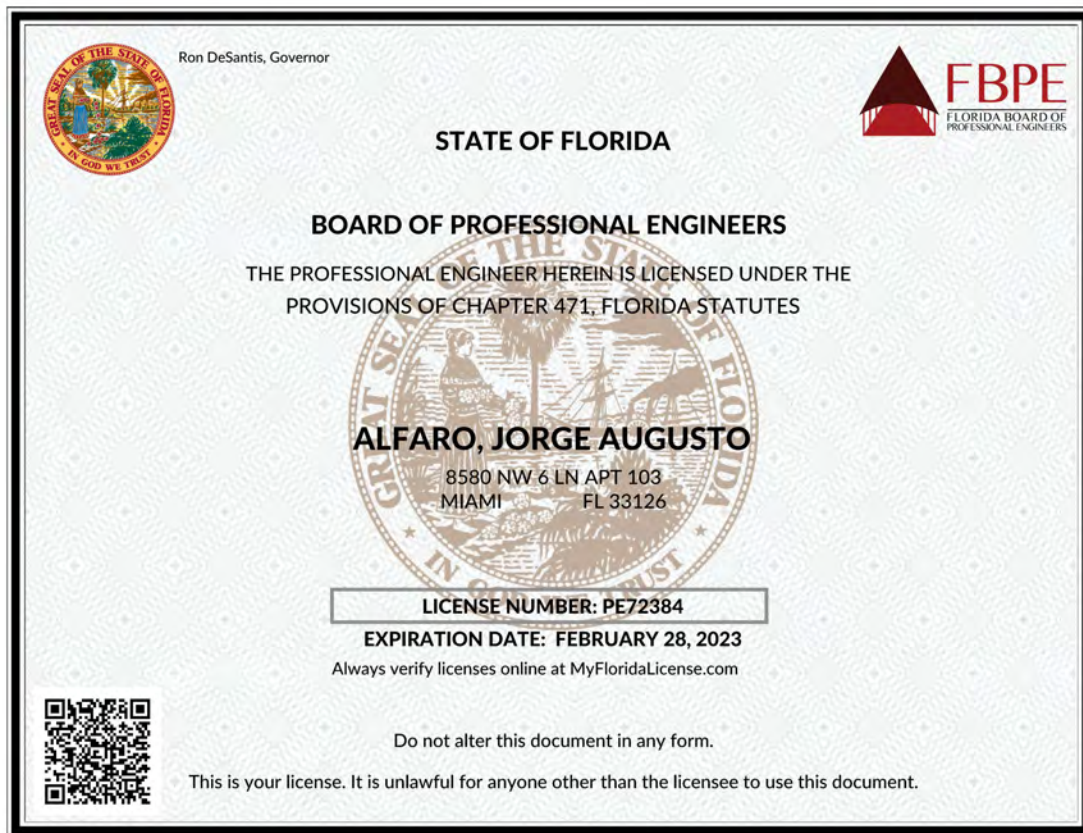


  
Secretary of State

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## *State of Florida Department of State*

I certify from the records of this office that BASE CONSULTANTS, INC. is a corporation organized under the laws of the State of Florida, filed on November 14, 2006, effective November 12, 2006.

The document number of this corporation is P06000143150.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 3, 2022, 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 Third day of January, 2022*



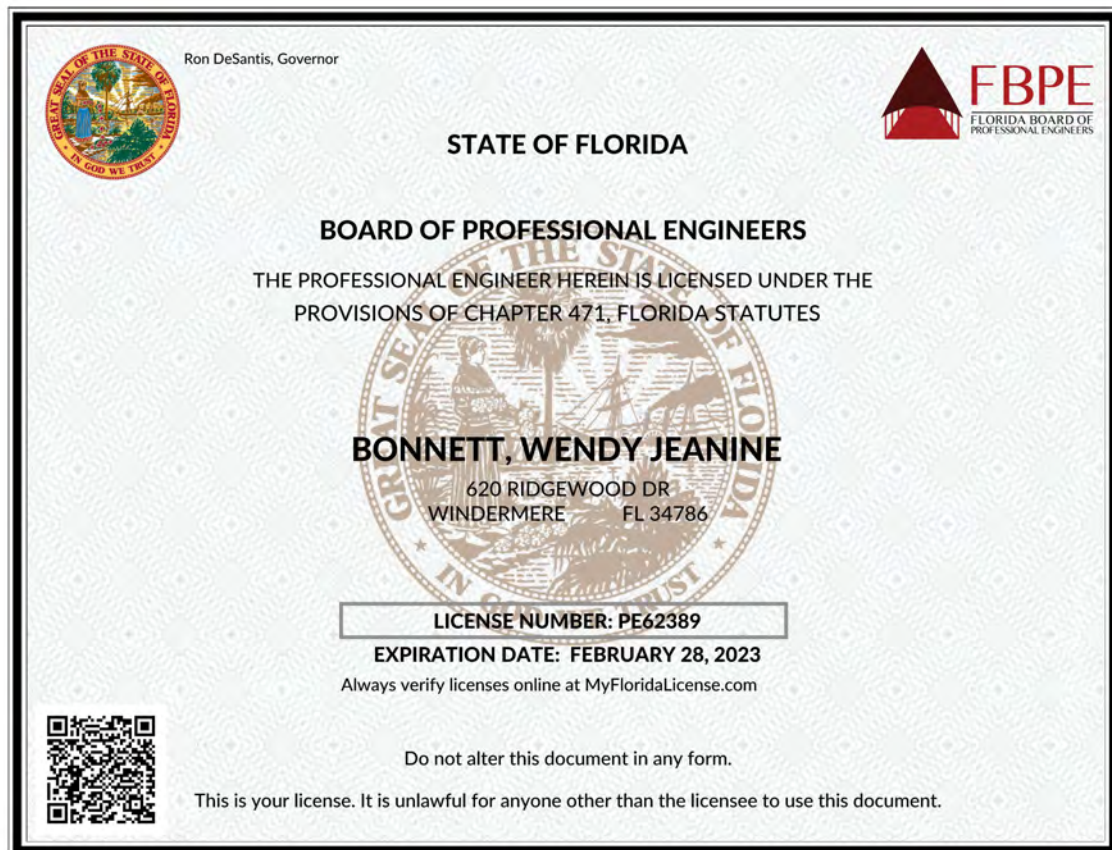
*Randy R. Lee*  
Secretary of State

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# DBE Certification



Orlando International Airport  
5850 B Cargo Road  
Orlando, Florida 32827-4399  
Phone: (407) 825-7133  
Fax: (407) 825-3004

January 24, 2022

Mrs. Sallaja Alath  
Base Consultants, Inc.  
1214 East Concord Street  
Orlando, FL 32803

**Disadvantaged Business Enterprise (DBE) Certification**  
**Anniversary Date: February 5, 2023**

Dear Mrs. Alath:

The Small Business Development Department of the Greater Orlando Aviation Authority (Authority) has reviewed the **No Change Declaration (NCD)** along with the supporting documentation, submitted on behalf of **Base Consultants, Inc.** to determine whether the entity continues to meet the **Disadvantaged Business Enterprise (DBE)** eligibility requirements of **49 CFR, PART 26.1**. I am pleased to inform you that your firm remains eligible for **DBE** certification in accordance with **49 CFR, Part 26.**

**Your firm has been certified under the North American Industry Classification System (NAICS) Codes listed on page 2 of this letter.**

Your firm will be listed in **Florida's Unified Certification Program (UCP) DBE Directory** which can be accessed via the Florida Department of Transportation's (FDOT) website at <https://fdotowp02.dor.state.fl.us/EqualOpportunityOfficeBusinessDirectory>. As long as the firm is listed as a **DBE** in Florida's UCP DBE Directory, it is considered **DBE** Certified by all Members of the Florida UCP.

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

**DBE** certification is continuing from the date of this letter. However, it is contingent upon the firm renewing its eligibility annually. Your current Anniversary Date is **February 5, 2023**. For continued eligibility, a **No Change Declaration (NCD)** form must be submitted to our office annually. While we will make every attempt to notify you prior to the anniversary date of your certification, it is ultimately your responsibility to provide a NCD to our office. You may complete your NCD online at <https://goaa.diversitycompliance.com>. To help facilitate the processing of your NCD prior to your anniversary date, **please submit your NCD and all required documentation ninety (90) days in advance of your anniversary date**. Failure to timely submit your annual NCD may result in the removal of your firm as a **DBE**.

If there is a material change in the firm, including, but not limited to: ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must promptly notify this office in writing. Notification should include supporting documentation.

Page - 2

January 24, 2022

Sallaja Alath  
Base Consultants, Inc.

**Base Consultants, Inc. is Disadvantaged Business Enterprise (DBE) Certified by the Greater Orlando Aviation Authority under the following NAICS Commodity Codes/Area(s) of Specialty:**

NAICS 236220: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION  
NAICS 541330: ENGINEERING SERVICES  
NAICS 541618: OTHER MANAGEMENT CONSULTING SERVICES  
NAICS 541990: ALL OTHER PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES

Congratulations on your certification. Your anniversary date is **February 5, 2023**. Please contact our office at 407-825-7133 or [certifications@goaa.org](mailto:certifications@goaa.org) if you have any questions or if we can be of any assistance.

Sincerely,



George I. Morning  
Director, Small Business Development Department



## *State of Florida Department of State*

I certify from the records of this office that THE CORRADINO GROUP, INC. is a Kentucky corporation authorized to transact business in the State of Florida, qualified on January 13, 1997.

The document number of this corporation is F97000000207.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 7, 2022, and that its status is active.

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

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Twenty-sixth day of January,  
2022*



*Randy R. R.*  
Secretary of State

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THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION



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## LICENSEE SEARCH OPTIONS

4:10:17 PM 7/18/2022

Data Contained in Search Results is Current As Of 07/18/2022 03:53 PM.

### Search Results

Please see our [glossary of terms](#) for an explanation of the license status shown in these search results.

For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Certified General Contractor	ERVIN, ELUAH EUGENE	Primary	CGC1528724 Cert General	Current, Active 08/31/2024

Address\*: Main 101 NORTH/WEST 97TH TERRACE CORAL SPRINGS, FL 33071

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#### \* denotes

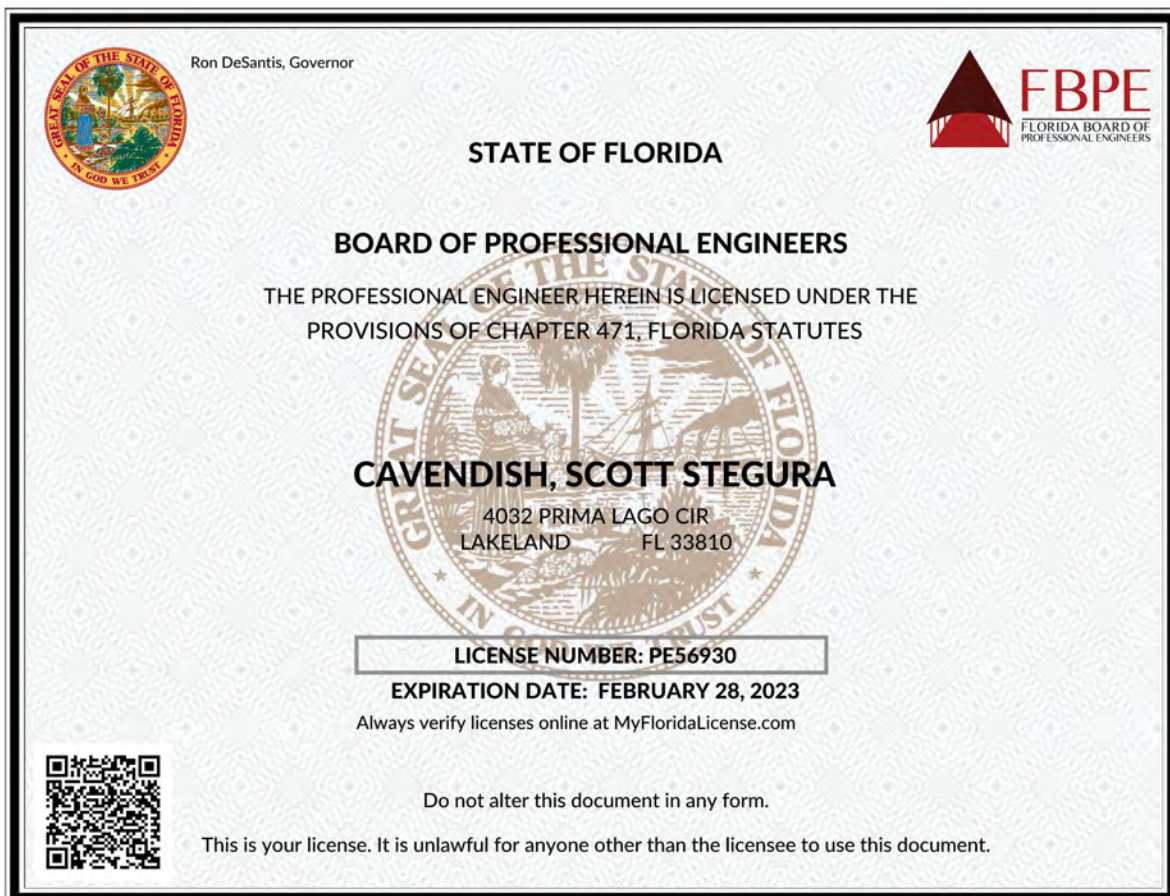
Main Address - This address is the Primary Address on file.  
Mailing Address - This is the address where the mail associated with a particular license will be sent (if different from the Main or License Location address).  
License Location Address - This is the address where the place of business is physically located.

## Licenses

Name: **THE CORRADINO GROUP, INC.** License Number: **7665**  
Rank: **Registry** License Expiration Date:  
Primary Status: **Current** Original License Date: **03/07/1997**

## Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
36146	Current, Active	PEREZ DE MORALES, EDUARDO	Registry		Professional Engineer	02/28/2023



## *State of Florida Department of State*

I certify from the records of this office that DELTA G - CONSULTING ENGINEERS, INC. is a corporation organized under the laws of the State of Florida, filed on October 5, 1992.

The document number of this corporation is V69412.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 12, 2022, 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 Twelfth day of January, 2022*



  
Secretary of State

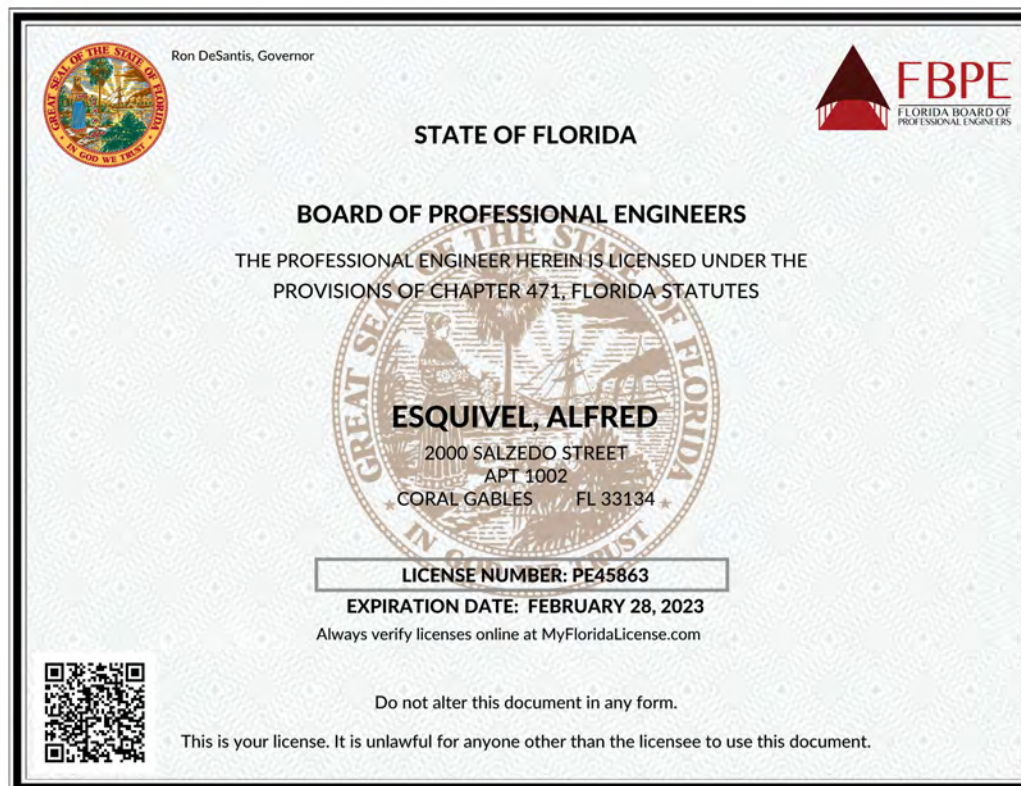
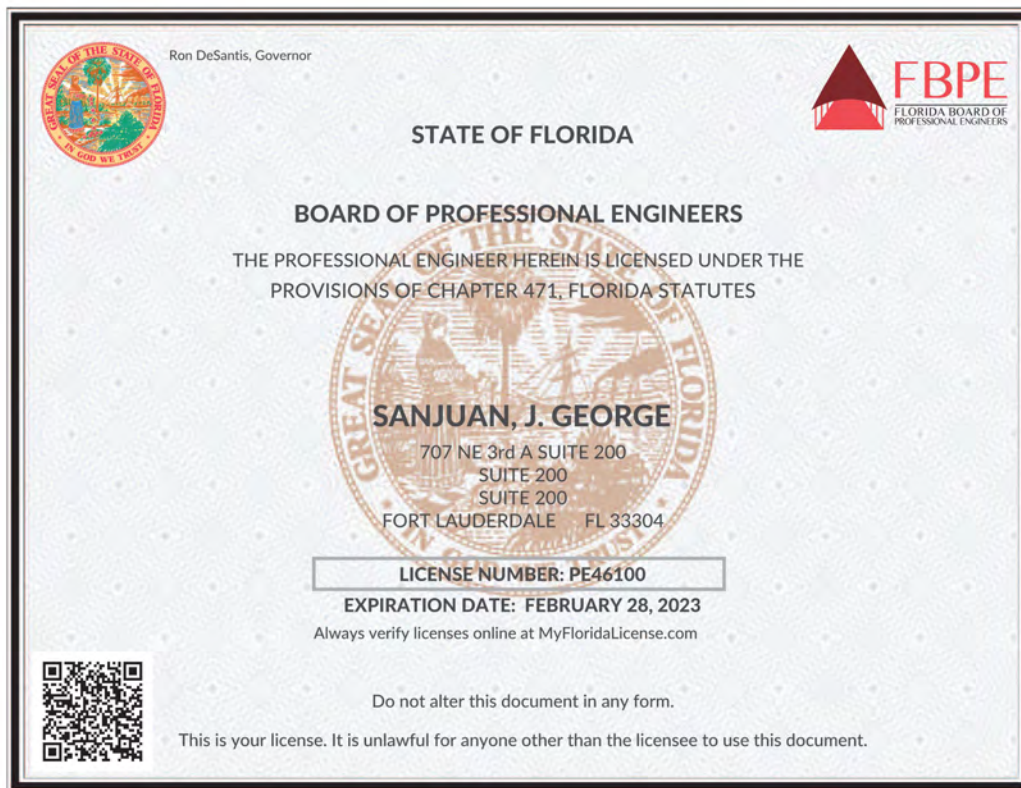
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# Professional Licenses







OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

Governmental Center Annex

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-5674

**June 10, 2022**

**Mr. George San Juan**  
**DELTA G CONSULTING ENGINEERS, INC.**  
**707 NE 3<sup>rd</sup> Avenue, Suite 200**  
**Fort Lauderdale, Florida 33304**

**ANNIVERSARY DATE – Annually, on June 14<sup>th</sup>**

Dear Mr. San Juan:

**Broward County** is pleased to announce **Delta G Consulting Engineers, Inc.**, has renewed its certification as a **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PART 26.

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

As long as Delta G Consulting Engineers, Inc., is listed in the DBE Directory, it is considered DBE Certified by all Florida UCP Members.

DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Delta G Consulting Engineers, Inc.

Delta G Consulting Engineers, Inc., will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:

<https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch>

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

Broward County Board of County Commissioners

Torey Alston • Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Jared E. Moskowitz • Nan H. Rich • Tim Ryan • Michael Udine  
[www.broward.org](http://www.broward.org)

**Re: Delta G Consulting Engineers, Inc.**

**June 10, 2022**

If, at any time, there is a material change in Delta G Consulting Engineers, Inc., including but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Delta G Consulting Engineers, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Delta G Consulting Engineers, Inc., may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following area:

**NAICS CODES: 541330 Engineering Services**

Please feel free to contact OESBD for any questions or concerns pertaining to your DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,

*for Sandy McDonald*  
*Assistant Director*

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

## *State of Florida Department of State*

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

The document number of this corporation is 650317.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 6, 2022, and that its status is active.

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

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Sixth day of January, 2022*



*Laundreae*  
Secretary of State

Tracking Number: 9856166842CC

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

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



# Professional Licenses



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

License No.: **LS4938**

Expiration Date February 28, 2023

## Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

**CHRISTOPHER ANDRE RAYMAN**  
8744 SE FAIRWINDS WAY  
HOBE SOUND, FL 33455

*Nicole Fried*

NICOLE "NIKKI" FRIED  
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.



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

License No.: **LS6667**

Expiration Date February 28, 2023

## Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

**JENNIFER C MALIN**  
1280 N CONGRESS AVE STE 101  
WEST PALM BEACH, FL 33409-

*Nicole Fried*

NICOLE "NIKKI" FRIED  
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.

## *State of Florida Department of State*

I certify from the records of this office that H2R CORP is a corporation organized under the laws of the State of Florida, filed on April 14, 2016, effective April 11, 2016.

The document number of this corporation is P16000033992.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 27, 2021, 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 Sixteenth day of June, 2021*



*Randy R. Lee*  
Secretary of State

Tracking Number: 6934988624CU

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

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

# DBE Certification

## Florida UCP DBE Directory Vendor Profile

As Of: 06/23/2022

Vendor Name: ENGENUITY GROUP INC

Certification: DBE/MBE

Former Name:

Business Description: CIVIL ENGINEERING SURVEYING GIS MAPPING

Mailing Address:

1280 NORTH CONGRESS AVE STE 10  
WEST PALM BEACH, FL 33409-

Physical Address:

1280 NORTH CONGRESS AVE STE 10  
WEST PALM BEACH FL 33409-

District: 04

County: PALM BEACH

Website:

Contact Name: LISA TROPEPE

Phone: (561) 655-1151

Fax: (561) 832-9390

Contact Email: [LTROPEPE@ENGENUITYGROUP.COM](mailto:LTROPEPE@ENGENUITYGROUP.COM)

Current DBE Certification: Certified

Certifying Member: Florida Department of Transportation

ACDBE Status: N

Statewide Availability: Y

### Certified NAICS

541330 - Engineering Services

541370 - Surveying and Mapping (except Geophysical) Services

### Available Work Counties

Statewide

### Available Work Districts

Statewide



# FDOT Lab Accreditation



## STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LABORATORY QUALIFICATION PERFORMANCE REPORT

### Laboratory Information

Lab ID: I04044  
Lab Name: H2R Corporation  
Lab Address: 1900 N.W. 40th Court, Pompano Beach, FL 33064-8718  
Lab Manager: Johnny Marin  
Email Address: jmarin@h2rcorp.com  
Telephone No: (954) 972-7570

MAC Evaluation ID:	0000075681	Evaluation Type:	Laboratory Evaluation
Evaluation District:	District 4		
Date(s) of Evaluation:	4/6/2022	Evaluation Area(s):	Aggregate, Concrete, Lab Inspection, Soils
Evaluation Status:	Satisfactory		
Checklist: AASHTO R 18 - Quality Systems Manual [Inspection]			PASSED
Checklist: AASHTO T 21 - Organic Impurities in Fine Aggregate for Concrete [Equipment]			PASSED
Checklist: AASHTO T 27 - Sieve Analysis of Fine and Coarse Aggregate [Equipment]			PASSED
Checklist: AASHTO T 88 - Hydrometer [Equipment]			PASSED
Checklist: AASHTO T 89 - Liquid Limit of Soils [Equipment]			PASSED
Checklist: AASHTO T 90 - Plastic Limit and Plasticity Index of Soils [Equipment]			PASSED
Checklist: ASTM C1231 - Use of Unbonded Caps for Concrete Cylinders [Equipment]			PASSED
Checklist: ASTM C39 - Compressive Strength of Cylinder Concrete Specimens [Equipment]			PASSED
Checklist: ASTM C511 - Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes [Inspection]			PASSED

MAC Evaluation ID:	0000075681	Evaluation Type:	Laboratory Evaluation
Evaluation District:	District 4		
Date(s) of Evaluation:	4/6/2022	Evaluation Area(s):	Aggregate, Concrete, Lab Inspection, Soils
Evaluation Status:	Satisfactory		
Checklist: ASTM C617 - Capping Cylindrical Concrete Specimens [Equipment]			PASSED
Checklist: FM 1-T 011 - Total Materials Finer than 75-µm No. 200 Sieve [Equipment]			PASSED
Checklist: FM 1-T 084 - Specific Gravity and Absorption of Fine Aggregate [Equipment]			PASSED
Checklist: FM 1-T 085 - Specific Gravity and Absorption of Coarse Aggregate [Equipment]			PASSED
Checklist: FM 1-T 099 - Moisture-Density Relations of Soils Using a 2.5kg or 5.5lb Rammer and a 305mm or 12in Drop [Equipment]			PASSED
Checklist: FM 1-T 180 - Moisture-Density Relations of Soils Using a 4.54kg or 10lb Rammer and a 457mm or 18in Drop [Equipment]			PASSED
Checklist: FM 5-515 - Lime Rock Bearing Ratio [Equipment]			PASSED

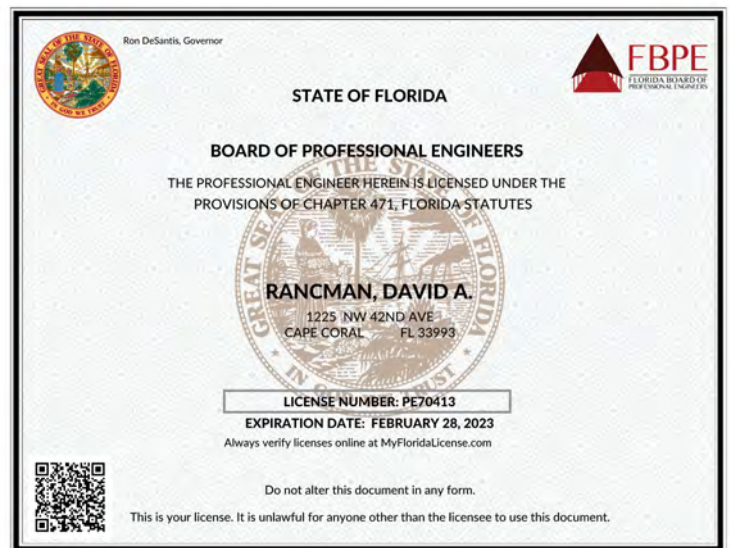
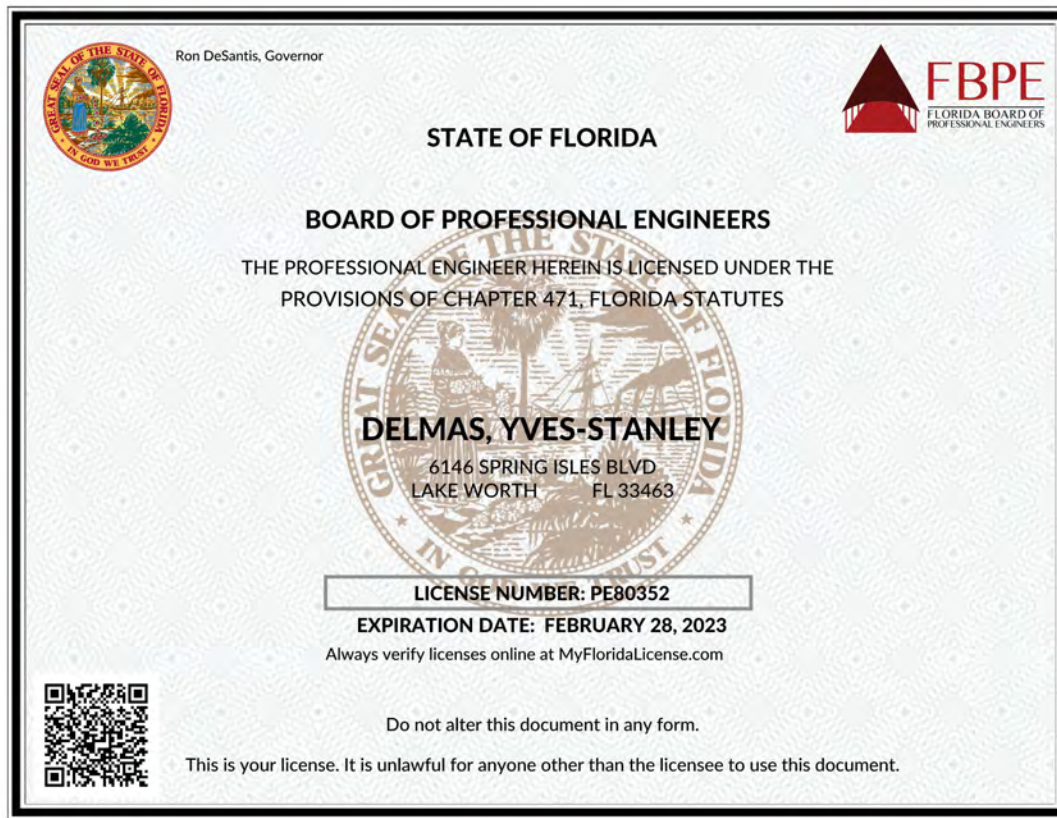
Comments:

Audley Duncan  
Signature of Independent Assurance Evaluator/Observer

April 07, 2022  
Date Approved

Recipients: Lab Manager Johnny Marin  
Contact Person Johnny Marin  
Profile Manager JOHNNY MARIN

# Professional Licenses





## *State of Florida Department of State*

I certify from the records of this office that WALTERS ZACKRIA ASSOCIATES, PLLC is a limited liability company organized under the laws of the State of Florida, filed on September 30, 2004.

The document number of this limited liability company is L04000071177.

I further certify that said limited liability company has paid all fees due this office through December 31, 2022, that its most recent annual report was filed on January 3, 2022, and that its status is active.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Third day of January, 2022*



*Laundrea Bee*  
Secretary of State

Tracking Number: 5926991059CC

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

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



THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION



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## ONLINE SERVICES

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[Find Exam Information](#)  
[Unlicensed Activity Search](#)  
[AB&T Delinquent Invoice & Activity List Search](#)

## LICENSEE DETAILS

7:04:19 PM 1/14/2022

### Licensee Information

Name:	ZACKRIA, ABBAS H (Primary Name) SQUARE Z ARCHITECTURE, INC.; WALTERS ZACKRIA ASSOCIATES PLLC (DBA Name)
Main Address:	5813 N ANDREWS WAY FORT LAUDERDALE Florida 33309
County:	BROWARD

### License Information

License Type:	Architect
Rank:	Architect
License Number:	AR91520
Status:	Current,Active
Licensure Date:	02/07/2003
Expires:	02/28/2023

Special Qualifications	Qualification Effective

### Alternate Names

--

## Tab 8: Required Forms

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## Supplier Response Form

### AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION

The completed form should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may result in Vendor being deemed non-responsive.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Development Program, including County Business Enterprise (CBE), Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

- ☐ No principal of the proposing Vendor has prior affiliations that meet the criteria defined as "Affiliated entities"
- ☒ Principal(s) listed below have prior affiliations that meet the criteria defined as "Affiliated entities"

Principal's Name:	<input type="text" value="A.J. Ribas"/>
	<input type="text" value="A2 Builders, Inc."/>
Names of Affiliated Entities:	<input type="text"/>
Principal's Name:	<input type="text"/>
	<input type="text"/>
Names of Affiliated Entities:	<input type="text"/>
Principal's Name:	<input type="text"/>
	<input type="text"/>
Names of Affiliated Entities:	<input type="text"/>
Authorized Signature Name:	<input type="text" value="Alberto G. Ribas, P.E."/>
Title:	<input type="text" value="President"/>
Vendor Name:	<input type="text" value="A2 Group, Inc."/>
Date:	<input type="text" value="07/19/2022"/>

Revised 11/24/2021



Supplier Response Form

AGREEMENT EXCEPTION FORM

The completed form(s) should be submitted with the solicitation response. If not submitted with solicitation response, it shall be deemed an affirmation by the Vendor that it accepts contract terms and conditions stated in the solicitation.

The Vendor must provide on the form below, any and all exceptions it takes to the contract terms and conditions stated in the solicitation, including all proposed modifications to the contract terms and conditions or proposed additional terms and conditions. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.



There are no exceptions to the contract terms and conditions state in this solicitation; or



The following exceptions are taken to the contract terms and conditions state in this solicitation: (use additional forms as needed; separate each Article/ Section number)

Term or Condition Article / Section	Insert proposed modifications to the contract terms and conditions or proposed additional terms and condition	Provide brief justification for proposed modifications
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Vendor Name:

## Supplier Response Form

### CRIMINAL HISTORY SCREENING PRACTICES CERTIFICATION FORM

The completed and signed form should be returned with Vendor's submittal. If Vendor does not provide it with the submittal, Vendor must submit the completed and signed form within three business days after County's request. Vendor shall be deemed nonresponsive for failure to fully comply within stated timeframes.

Section 26-125(d) of the Broward County Code of Ordinances ("Criminal History Screening Practices") requires that a Vendor seeking a contract in the amount of \$100,000 or more with Broward County shall certify that it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position. The requirement in the preceding sentence shall apply only to positions located within the United States that will foreseeably perform work under a contract with Broward County. The failure of Vendor to comply with Section 26-125(d) at any time during the contract term shall constitute a material breach of the contract, entitling Broward County to pursue any remedy permitted under the contract and any other remedy provided under applicable law. If Vendor fails to comply with Section 26-125(d) at any time during the contract term, Broward County may, in addition to all other available remedies, terminate the contract and Vendor may be subject to debarment or suspension proceedings consistent with the procedures in Chapter 21 of the Broward County Administrative Code.

By signing below, Vendor certifies that it is aware of the requirements of Section 26-125(d), Broward County Code of Ordinances, and certifies the following: (check only one below).

☒ Vendor certifies that, for positions located within the United States that will foreseeably perform work under a contract with Broward County, it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position.

☐ Vendor is exempt from the requirements of Section 26-125(d) of the Broward County Code of Ordinances because Vendor is required by applicable federal, state, or local law to conduct a criminal history background check in connection with potential employment at a time or in a manner that would otherwise be prohibited by this section, or because Vendor is a governmental agency.

AUTHORIZED SIGNATURE/ NAME:

VENDOR NAME:

TITLE:

DATE:

Revised June 17, 2022



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

LETTER OF INTENT BETWEEN BIDDER/OFFEROR AND DISADVANTAGED BUSINESS ENTERPRISE (DBE) /  
AIRPORT CONCESSIONS DISADVANTAGED BUSINESS ENTERPRISE (ACDBE) SUBCONTRACTOR/SUPPLIER  
(Form to be completed and signed for each DBE/ACDBE firm)

<b>Solicitation Number:</b> PNC2123699P1	<b>Project Title:</b> CEI Services for Airport Utilities and Pavement Projects
---	---

**Bidder/Offeror Name:** A<sup>2</sup> Group, Inc.

**Address:** 12915 SW 132nd Street, Ste 5 **City:** Miami **State:** FL **Zip:** 33186

**Authorized Representative:** Alberto G. Ribas, P.E., RLA **Phone:** 305-668-8939

**DBE/ACDBE Subcontractor/Supplier Name:** A<sup>2</sup> Group, Inc.

**Check one:** ☐ **Address:** 12915 SW 132nd Street, Ste 5

**DBE** ☐ **City:** Miami **State:** FL **Zip:** 33186 **Phone:** 305-668-8939

**ACDBE** ☐ **Authorized Representative:** \_\_\_\_\_

- A. This is a letter of intent between the bidder/offeror on this project and a DBE/ACDBE firm for the DBE/ACDBE to perform subcontracting work on this project, consistent with Title 49 CFR Parts 26 or 23 as applicable.
- B. By signing below, the bidder/offeror is committing to utilize the above-named DBE/ACDBE to perform the work described below.
- C. By signing below, the above-named DBE/ACDBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and DBE/ACDBE affirm that if the DBE/ACDBE subcontracts any of the work described below, it may only subcontract that work to another DBE/ACDBE if it wishes to receive DBE/ACDBE credit for said work.

Work to be performed by DBE/ACDBE Firm			
Description	NAICS*	DBE/ACDBE Contract Amount†	DBE/ACDBE Percentage of Total Project Value
Architectural Services	541310		5%
Landscape Architectural Services	541320		
Engineering	541330		20%

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

**Bidder/Offeror Authorized Representative**

\_\_\_\_\_  
(Signature) President (Title) 7/18/2022 (Date)

**DBE/ACDBE Subcontractor/Supplier Authorized Representative**

\_\_\_\_\_  
(Signature) President (Title) 7/18/2022 (Date)

\* Visit <http://www.census.gov/eos/www/naics/> to search. Match type of work with NAICS code as closely as possible.

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





OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

LETTER OF INTENT BETWEEN BIDDER/OFFEROR AND DISADVANTAGED BUSINESS ENTERPRISE (DBE) /  
AIRPORT CONCESSIONS DISADVANTAGED BUSINESS ENTERPRISE (ACDBE) SUBCONTRACTOR/SUPPLIER  
(Form to be completed and signed for each DBE/ACDBE firm)

<b>Solicitation Number:</b> PNC2123699P1	<b>Project Title:</b> CEI Services for Airport Utilities and Pavement Projects
---	---

**Bidder/Offeror Name:** A<sup>2</sup> Group, Inc.

**Address:** 12915 SW 132nd Street, Ste 5 **City:** Miami **State:** FL **Zip:** 33186

**Authorized Representative:** Alberto G. Ribas, P.E., RLA **Phone:** 305-668-8939

**DBE/ACDBE Subcontractor/Supplier Name:** Base Consultants, Inc.

**Check one:** ☐ **Address:** 1214 East Concord Street

**DBE** ☒ **City:** Orlando **State:** FL **Zip:** 32803 **Phone:** 4073777227

**ACDBE** ☐ **Authorized Representative:** Ram Kozhikote

- A. This is a letter of intent between the bidder/offeror on this project and a DBE/ACDBE firm for the DBE/ACDBE to perform subcontracting work on this project, consistent with Title 49 CFR Parts 26 or 23 as applicable.
- B. By signing below, the bidder/offeror is committing to utilize the above-named DBE/ACDBE to perform the work described below.
- C. By signing below, the above-named DBE/ACDBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and DBE/ACDBE affirm that if the DBE/ACDBE subcontracts any of the work described below, it may only subcontract that work to another DBE/ACDBE if it wishes to receive DBE/ACDBE credit for said work.

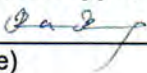
Work to be performed by DBE/ACDBE Firm			
Description	NAICS*	DBE/ACDBE Contract Amount†	DBE/ACDBE Percentage of Total Project Value
Structural Analysis, Threshold Inspections			3%

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

**Bidder/Offeror Authorized Representative**

 **President** **7/18/2022**  
(Signature) (Title) (Date)

**DBE/ACDBE Subcontractor/Supplier Authorized Representative**

ram kozhikote  **Ram Kozhikote, BASE Consultants** **Vice President** **7/18/2022**  
(Signature) 2022.07.19 11:40:11-04'00" (Title) (Date)

\* Visit <http://www.census.gov/eos/www/naics/> to search. Match type of work with NAICS code as closely as possible.

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





OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

LETTER OF INTENT BETWEEN BIDDER/OFFEROR AND DISADVANTAGED BUSINESS ENTERPRISE (DBE) /  
AIRPORT CONCESSIONS DISADVANTAGED BUSINESS ENTERPRISE (ACDBE) SUBCONTRACTOR/SUPPLIER  
(Form to be completed and signed for each DBE/ACDBE firm)

<b>Solicitation Number:</b> PNC2123699P1	<b>Project Title:</b> CEI Services for Airport Utilities and Pavement Projects
---	---

**Bidder/Offeror Name:** A<sup>2</sup> Group, Inc.

**Address:** 12915 SW 132nd Street, Ste 5 **City:** Miami **State:** FL **Zip:** 33186

**Authorized Representative:** Alberto G. Ribas, P.E., RLA **Phone:** 305-668-8939

**DBE/ACDBE Subcontractor/Supplier Name:** Delta G Consulting Engineers

**Check one:** **Address:** 1800 Eller Drive, Ste 570

**DBE** **City:** Fort Lauderdale **State:** FL **Zip:** 33316 **Phone:** 954-527-1112

**ACDBE** **Authorized Representative:** George SanJuan

- A. This is a letter of intent between the bidder/offeror on this project and a DBE/ACDBE firm for the DBE/ACDBE to perform subcontracting work on this project, consistent with Title 49 CFR Parts 26 or 23 as applicable.
- B. By signing below, the bidder/offeror is committing to utilize the above-named DBE/ACDBE to perform the work described below.
- C. By signing below, the above-named DBE/ACDBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and DBE/ACDBE affirm that if the DBE/ACDBE subcontracts any of the work described below, it may only subcontract that work to another DBE/ACDBE if it wishes to receive DBE/ACDBE credit for said work.

**Work to be performed by DBE/ACDBE Firm**


Description	NAICS*	DBE/ACDBE Contract Amount†	DBE/ACDBE Percentage of Total Project Value
Mechanical, Electrical, Plumbing and Fire Protection	541330		5%

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

**Bidder/Offeror Authorized Representative**

 **President** **7/18/2022**  
(Signature) (Title) (Date)

**DBE/ACDBE Subcontractor/Supplier Authorized Representative**

 **President** **7/18/2022**  
(Signature) (Title) (Date)

\* Visit <http://www.census.gov/eos/www/naics/> to search. Match type of work with NAICS code as closely as possible.

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

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





OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

LETTER OF INTENT BETWEEN BIDDER/OFFEROR AND DISADVANTAGED BUSINESS ENTERPRISE (DBE) /  
AIRPORT CONCESSIONS DISADVANTAGED BUSINESS ENTERPRISE (ACDBE) SUBCONTRACTOR/SUPPLIER  
(Form to be completed and signed for each DBE/ACDBE firm)

<b>Solicitation Number:</b> PNC2123699P1	<b>Project Title:</b> CEI Services for Airport Utilities and Pavement Projects
---	---

**Bidder/Offeror Name:** A<sup>2</sup> Group, Inc.

Address: 12915 SW 132nd Street, Ste 5 City: Miami State: FL Zip: 33186

Authorized Representative: Alberto G. Ribas, P.E., RLA Phone: 305-668-8939

**DBE/ACDBE Subcontractor/Supplier Name:** Engenuity Group, Inc.

Check one: Address: 300 Lock Road, Suite 302

DBE City: Deerfield Beach State: FL Zip: 33442 Phone: 954-895-0174

ACDBE Authorized Representative: C. Andre Rayman, PSM

- A. This is a letter of intent between the bidder/offeror on this project and a DBE/ACDBE firm for the DBE/ACDBE to perform subcontracting work on this project, consistent with Title 49 CFR Parts 26 or 23 as applicable.
- B. By signing below, the bidder/offeror is committing to utilize the above-named DBE/ACDBE to perform the work described below.
- C. By signing below, the above-named DBE/ACDBE is committing to perform the work described below.
- D. By signing below, the bidder/offeror and DBE/ACDBE affirm that if the DBE/ACDBE subcontracts any of the work described below, it may only subcontract that work to another DBE/ACDBE if it wishes to receive DBE/ACDBE credit for said work.

Work to be performed by DBE/ACDBE Firm			
Description	NAICS*	DBE/ACDBE Contract Amount†	DBE/ACDBE Percentage of Total Project Value
Surveying Services			2%

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

**Bidder/Offeror Authorized Representative**

 President 7/18/2022  
(Signature) (Title) (Date)

**DBE/ACDBE Subcontractor/Supplier Authorized Representative**

C. Andre Rayman, PSM Digitally signed by C. Andre Rayman, PSM President 7/18/2022  
(Signature) Date: 2022.07.18 16:38:58 -04'00' (Title) (Date)

\* Visit <http://www.census.gov/eos/www/naics/> to search. Match type of work with NAICS code as closely as possible.

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

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



## Supplier Response Form

### LITIGATION HISTORY FORM

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

- ☒ There are no material cases for this Vendor; or  
☐ Material Case(s) are disclosed below:

Is this for a: (check type) <input type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, name of Parent/Subsidiary/Predecessor: <input type="text"/> Or No <input type="checkbox"/>
Party	
Case Number, Name, and Date Filed	<input type="text"/>
Name of Court or other tribunal	<input type="text"/>
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	<input type="text"/>
Brief description of the Subject Matter and Project Involved	<input type="text"/>
Disposition of Case  (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input type="checkbox"/> Dismissed <input type="checkbox"/>  Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/>  If Judgment Against, is Judgment Satisfied? <input type="checkbox"/> Yes <input type="checkbox"/> No
Opposing Counsel	Name: <input type="text"/> Email: <input type="text"/> Telephone Number: <input type="text"/>

Vendor Name:

Revised May 1, 2021

# Supplier Response Form

## LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION

The completed should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one)

- ☒ It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified.
- ☐ It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances.

It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

**Authorized Signature/Name**

**TITLE**

**Vendor Name**

**DATE**

Revised May 1, 2021

# Supplier Response Form

## LOCATION CERTIFICATION

Refer to applicable sections for submittal instructions. Failure to submit required forms or information by stated timeframes will deem vendor ineligible for local preference or location tiebreaker.

Broward County [Code of Ordinances, Section 1-74](#), et seq., provides certain preferences to Local Businesses, Locally Based Businesses, and Locally Based Subsidiaries, and the [Broward County Procurement Code](#) provides location as the first tiebreaker criteria. Refer to the ordinance for additional information regarding eligibility for local preference.

### For Invitation for Bids:

To be eligible for the Local Preference best and final offer ("BAFO") and location tiebreaker, the Vendor **must** submit this fully completed form and a copy of its Broward County local business tax receipt **at the same time it submits its bid**. **Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the location tiebreaker.**

### For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For Local Preference eligibility, the Vendor **should** submit this fully **completed form** and **all Required Supporting Documentation** (as indicated below) at the time Vendor submits its response to the procurement solicitation. If not provided with submittal, the Vendor **must** submit within three business days after County's written request. Failure to submit required forms or information by stated timeframes will deem the Vendor ineligible for local preference.

To be eligible for the location tiebreaker, **the Vendor must submit this fully completed form and a copy of its Broward County local business tax receipt at the same time it submits its response**. Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

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The undersigned Vendor hereby certifies that (check the box for only one option below):

- ☐ **Option 1:** The Vendor is a **Local Business**, but does not qualify as a **Locally Based Business** or a **Locally Based Subsidiary**, as each term is defined by [Section 1-74, Broward County Code of Ordinances](#). The Vendor further certifies that:
- A. It has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
    - i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
    - ii. in an area zoned for the conduct of such business,
    - iii. that the Vendor owns or has the legal right to use, and
    - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

If Option 1 selected, indicate **Local Business Location**:

- ☐ **Option 2:** The Vendor is both a **Local Business** and a **Locally Based Business** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:
- A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
    - i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
    - ii. in an area zoned for the conduct of such business,
    - iii. that the Vendor owns or has the legal right to use, and
    - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation as so defined, the "Local Business Location";



- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. Less than fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the owned, directly or indirectly, by one or more entities with a principal place of business Vendor located outside of Broward County is .

If Option 2 selected, indicate **Local Business Location**:

☐ **Option 3:** The Vendor is both a **Local Business** and a **Locally Based Subsidiary** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:

- A. The Vendor has continuously maintained:
  - i. for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
  - ii. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
  - iii. in an area zoned for the conduct of such business,
  - iv. that the Vendor owns or has the legal right to use, and
  - v. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. At least fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the Vendor owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County is .

If Option 3 selected, indicate **Local Business Location**:

☐ **Option 4:** The Vendor is a **joint venture** composed of one or more Local Businesses, Locally Based Businesses, or Locally Based Subsidiaries, as each term is defined by Section 1-74, Broward County Code of Ordinances. Fill in blanks with percentage equity interest or list "N/A" if section does not apply. The Vendor further certifies that:

- A. The proportion of equity interests in the joint venture owned by **Local Business(es)** (each Local Business must comply with all of the requirements stated in Option 1) is  % of the total equity interests in the joint venture; and/or
- B. The proportion of equity interests in the joint venture owned by **Locally Based Business(es)** (each Locally Based Business must comply with all of the requirements stated in Option 2) is  % of the total equity interests in the joint venture; and/or

- C. The proportion of equity interests in the joint venture owned by **Locally Based Subsidiary(ies)** (each Locally Based Subsidiary must comply with all of the requirements stated in Option 3) is % of the total equity interests in the joint venture.

If Option 4 selected, indicate the Local Business Location(s) (es) on separate sheet.

- ☒ **Option 5:** Vendor is not a Local Business, a Locally Based Business, or a Locally Based Subsidiary, as each term is defined by Section 1-74, Broward County Code of Ordinances.

**Required Supporting Documentation** (in addition to this form): Option 1 or 2 (**Local Business or Locally Based Business**):

1. Broward County local business tax receipt.

**Option 3 (Locally Based Subsidiary)**

1. Broward County local business tax receipt.
2. Documentation identifying the Vendor's vertical corporate organization and names of parent entities if the Vendor is a Locally Based Subsidiary.

**Option 4 (joint venture)** composed of one or more Local Business(es), Locally Based Business(es), or Locally Based Subsidiary(ies):

1. Broward County local business tax receipt(s) for each Local Business(es), Locally Based Business(es), and/or Locally Based Subsidiary(ies).
2. Executed joint venture agreement, if the Vendor is a joint venture.
3. If joint venture is comprised of one or more Locally Based Subsidiary(ies), submit documentation identifying the vertical corporate organization and parent entities name(s) of each Locally Based Subsidiary.

**If requested by County (any option):**

1. Written proof of the Vendor's ownership or right to use the real property at the Local Business Location.
2. Additional documentation relating to the parent entities of the Vendor.
3. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement.
4. Any other documentation requested by County regarding the location from which the activities of the Vendor are directed, controlled, and coordinated.

By submitting this form, the Vendor certifies that if awarded a contract, it is the intent of the Vendor to remain at the Local Business Location address listed below (or another qualifying Local Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

**Indicate Local Business Location:**

**True and Correct Attestations:**

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by the Broward County Procurement Code. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

**AUTHORIZED SIGNATURE/NAME:**

**TITLE:**

VENDOR NAME:

DATE:

Revised May 1, 2021



## Supplier Response Form

### SUBCONTRACTORS/SUBCONSULTANTS/SUPPLIERS REQUIREMENT Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The following forms and supporting information (if applicable) should be returned with Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit may affect Vendor's evaluation.

- A. The Vendor shall submit a listing of all subcontractors, subconsultants and major material suppliers (firms), if any, and the portion of the contract they will perform. A major material supplier is considered any firm that provides construction material for construction contracts, or commodities for service contracts in excess of \$50,000, to the Vendor.
- B. If participation goals apply to the contract, only non-certified firms shall be identified on the form. A non-certified firm is a firm that is not listed as a firm for attainment of participation goals (ex. County Business Enterprise or Disadvantaged Business Enterprise), if applicable to the solicitation.
- C. This list shall be kept up-to-date for the duration of the contract. If subcontractors, subconsultants or suppliers are stated, this does not relieve the Vendor from the prime responsibility of full and complete satisfactory performance under any awarded contract.
- D. After completion of the contract/final payment, the Vendor shall certify the final list of non-certified subcontractors, subconsultants, and suppliers that performed or provided services to the County for the referenced contract.
- E. The Vendor has confirmed that none of the recommended subcontractors, subconsultants, or suppliers' principal(s), officer(s), affiliate(s) or any other related companies have been debarred from doing business with Broward County or any other governmental agency.

If none, check the box below on this form. Use additional copies of this form(s) in Periscope S2G, if needed.

None - ☐

1. Subcontracted Firm's Name:   
Subcontracted Firm's Address:   
Subcontracted Firm's Telephone Number:   
Contact Person's Name and Position:   
Contact Person's E-Mail Address:   
Estimated Subcontract/Supplies Contract Amount:   
  
Type of Work/Supplies Provided:
2. Subcontracted Firm's Name:   
Subcontracted Firm's Address:   
Subcontracted Firm's Telephone Number:   
Contact Person's Name and Position:   
Contact Person's E-Mail Address:   
Estimated Subcontract/Supplies Contract Amount:   
  
Type of Work/Supplies Provided:

3. Subcontracted Firm's Name:   
Subcontracted Firm's Address:   
Subcontracted Firm's Telephone Number:   
Contact Person's Name and Position:   
Contact Person's E-Mail Address:   
Estimated Subcontract/Supplies Contract Amount:   
  
Type of Work/Supplies Provided:

4. Subcontracted Firm's Name:   
Subcontracted Firm's Address:   
Subcontracted Firm's Telephone Number:   
Contact Person's Name and Position:   
Contact Person's E-Mail Address:   
Estimated Subcontract/Supplies Contract Amount:   
  
Type of Work/Supplies Provided:

**I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.**

**Authorized Signature/Name**

**Title**

**Vendor Name**

**Date**

Revised 11/24/2021

## VENDOR'S OPPORTUNITY LIST

### Part A.

<p>1. Federal Tax ID Number: 650469324</p> <p>2. Firm Name: A<sup>2</sup> Group, inc.</p> <p>3. Phone Number: 305-668-8939</p> <p>4. Address: 12915 SW 132<sup>nd</sup> Street, Ste 5 Miami, Florida 33186</p> <p>5. Year Firm Established: 1994</p> <p>6. <input checked="" type="checkbox"/> DBE <input type="checkbox"/> Non-DBE</p> <p>7. Type of work bid on: (Please specify) Architecture Engineering CEI</p>	<p>8. Contract Amount: <b>55%</b></p> <p>9. Annual Gross Receipts:</p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input checked="" type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 58-2088728</p> <p>2. Firm Name:  Argus Consulting</p> <p>3. Phone Number: 816.228.7500</p> <p>4. Address: 6363 College Boulevard Suite 600 Overland Park, KS 66211</p> <p>5. Year Firm Established: 1994</p> <p>6. <input type="checkbox"/> DBE <input checked="" type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor  <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify) CEI Services related to Aircraft Fueling</p>	<p>9. Contract Amount or Percentage: \$ <input type="text" value="5"/> %</p> <p><b>10. Annual Gross Receipts:</b></p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input checked="" type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 205884517</p> <p>2. Firm Name:</p> <p>Base Consultants</p> <p>3. Phone Number:</p> <p>407-377-7227</p> <p>4. Address:</p> <p>1214 East Concord Street Orlando, Florida 32803</p> <p>5. Year Firm Established: 2006</p> <p>6. <input checked="" type="checkbox"/> DBE <input type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify)</p> <p>Structural Analysis, Threshold Inspections</p>	<p>9. Contract Amount or Percentage:</p> <p>\$ <input type="text" value="3"/> %</p> <p>10. Annual Gross Receipts:</p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input checked="" type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 61-0713040</p> <p>2. Firm Name: The Corradino Group</p> <p>3. Phone Number: 305-594-0735</p> <p>4. Address: 4055 NW 97<sup>th</sup> Avenue Miami, Florida 33178</p> <p>5. Year Firm Established: 51</p> <p>6. <input type="checkbox"/> DBE <input checked="" type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify) Civil Engineering, CEI</p>	<p>9. Contract Amount or Percentage: <b>20%</b></p> <p><b>10. Annual Gross Receipts:</b></p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input checked="" type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 65-0361739</p> <p>2. Firm Name: Delta G Consulting Engineers</p> <p>3. Phone Number: 954-52712</p> <p>4. Address: 1800 Eller Drive, Ste 570 Fort Lauderdale, Florida 33316</p> <p>5. Year Firm Established:</p> <p>6. <input checked="" type="checkbox"/> DBE <input type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify) MEP</p>	<p>9. Contract Amount or Percentage: \$ <input type="text" value="5"/> %</p> <p><b>10. Annual Gross Receipts:</b></p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input checked="" type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 59-1959840</p> <p>2. Firm Name:</p> <p>Engenuity Group, Inc.</p> <p>3. Phone Number:</p> <p>954-895-0174</p> <p>4. Address:</p> <p>300 Lock Road, Suite 302 Deerfield Beach, FL 33442</p> <p>5. Year Firm Established:</p> <p>1978</p> <p>6. <input checked="" type="checkbox"/> DBE <input type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify)</p> <p>Surveying</p>	<p>9. Contract Amount or Percentage:</p> <p>\$ <input type="text" value="2"/> %</p> <p><b>10. Annual Gross Receipts:</b></p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input checked="" type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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(Continued)

**Part B. Subcontractor/Subconsultant Information**

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number: 81-2654817</p> <p>2. Firm Name: H2R Corp</p> <p>3. Phone Number: 727-541-3444</p> <p>4. Address: 1900 NW 40th Court, Pompano Beach, FL 33064 Corp: 3921 76th Ave N, Pinellas Park, FL 33781</p> <p>5. Year Firm Established: 2016 (as H2R Corp) 1972 as Williams Earth Sciences</p> <p>6. <input type="checkbox"/> DBE <input checked="" type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify) CEI Foundation Testing &amp; Inspection Geotechnical Goal Pile Check Materials Testing &amp; Inspection Specialty Construction Support &amp; Verification Subsurface Exploration &amp; Drilling</p>	<p>9. Contract Amount or Percentage: 20%</p> <p>10. Annual Gross Receipts:</p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input checked="" type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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06/22/2022



## Part B. Subcontractor/Subconsultant Information

Provide this information for all subcontractors/subconsultants who provided Vendor with a bid/quote/proposal to perform work on the project. Submit additional forms for each subcontractor/subconsultant as needed.

<p>1. Federal Tax ID Number:</p> <p>20-2365592</p> <p>2. Firm Name:</p> <p>Walters Zackria Associates, PLLC</p> <p>3. Phone Number:</p> <p>954-522-4123</p> <p>4. Address:</p> <p>5813 North Andrews Way Fort Lauderdale, Florida 33309</p> <p>5. Year Firm Established:</p> <p>2004</p> <p>6. <input type="checkbox"/> DBE <input checked="" type="checkbox"/> Non-DBE</p> <p>7. <input type="checkbox"/> Subcontractor <input checked="" type="checkbox"/> Subconsultant</p> <p>8. Type of work bid on: (Please specify)</p> <p>Architectural Services</p>	<p>9. Contract Amount or Percentage:</p> <p>\$ <input type="text"/> 3%</p> <p>10. Annual Gross Receipts:</p> <p><input type="checkbox"/> Less than \$200,000</p> <p><input type="checkbox"/> \$200,001 - \$500,000</p> <p><input type="checkbox"/> \$500,001 - less than \$1 million</p> <p><input checked="" type="checkbox"/> \$1 million – less than \$5 million</p> <p><input type="checkbox"/> \$5 million – less than \$10 million</p> <p><input type="checkbox"/> \$10 million – less than \$20 million</p> <p><input type="checkbox"/> \$20 million – less than \$50 million</p> <p><input type="checkbox"/> \$50 million – less than \$100 million</p> <p><input type="checkbox"/> \$100 million – less than \$500 million</p> <p><input type="checkbox"/> \$500 million – less than \$1 billion</p> <p><input type="checkbox"/> More than \$1 billion</p>
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# Supplier Response Form

## VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The completed form, including acknowledgment of the standard certifications and should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may affect Vendor's evaluation.

**If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number.** The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. Legal business name:

2. Doing Business As/ Fictitious Name (if applicable):

3. Federal Employer I.D. no. (FEIN):

4. Dun and Bradstreet No.:

5. Website address (if applicable):

6. Principal place of business address:

7. Office location responsible for this project:

8. Telephone no.:

Fax no.:

9. Type of business (check appropriate box):

Corporation (specify the state of incorporation:

☒

Sole Proprietor

☐

Limited Liability Company (LLC)

☐

Limited Partnership

☐

General Partnership (State and County Filed In)

☐

Other – Specify

☐

10. List [Florida Department of State, Division of Corporations](#) document number (or registration number if fictitious name):

11. List name and title of each principal, owner, officer, and major shareholder:

- a)
- b)
- c)
- d)

12. AUTHORIZED CONTACT(S) FOR YOUR FIRM:

Name:

Title:

E-mail:

Telephone No.:

Name:

Title:

E-mail:

Telephone No.:

13. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
14. Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. ☐ Yes ☒ No
15. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
16. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached written response. ☒ Yes ☐ No
17. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
18. Has your firm's surety ever intervened to assist in the completion of a contract of have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. ☐ Yes ☒ No
19. Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
20. Has your ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
21. Living Wage solicitations only: In determining what, if any, fiscal impact(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
- Living Wage had an effect on the pricing. ☐ Yes ☐ No ☒ N/A
- If yes, Living Wage increased the pricing by:   %.
22. Participation in Solicitation Development:

☒ I have not participated in the preparation or drafting of any language, scope, or specification that would provide my firm or any affiliate an unfair advantage of securing this solicitation that has been let on behalf of Broward County Board of County Commissioners.

☐ I have provided information regarding the specifications and/or products listed in this solicitation that has been let on behalf of Broward County Board of County Commissioners.

If this box is checked, provide the following: Name of Person the information was provided:

Title:

Date information provided:

For what purpose was the information provided?



**Drug-Free Workplace Requirements Certification:**

Section 21.23(f) of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program.

- ☒ The Vendor hereby certifies that it has established a drug free workplace program in accordance with the requirements of [Section 1-71, et. Seq., of the Broward County Code of Ordinances](#) (Procurement From Businesses With Drug-Free Workplace Program).

**Non-Collusion Certification:**

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

- ☒ The Vendor certifies that this offer is made independently and free from collusion; or
- ☐ The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

**Public Entities Crimes Certification:**

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; and may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s.

287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

**Scrutinized Companies List Certification:**

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Alberto G. Ribas, P.E.

\*AUTHORIZED SIGNATURE/NAME

President

TITLE

07/01/2022

DATE

Vendor Name:

\* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to PART XI of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).