PROFESSIONAL ENGINEERING SERVICES

ST. PETE CLEARWATER INTERNATIONAL AIRPORT

CARGO APRON RECONSTRUCTION AND REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY

SUBMITTED TO
PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS





RFP NUMBER: 21-0546-NC (SS)









SUBMITTED BY





Pinellas County Board of County Commissioners 400 S. Ft. Harrison Avenue Annex Building - 6th Floor Clearwater, Florida 33756

REL CARGO APRON RECONSTRUCTION AND REPLACEMENT FOR RUNWAY 9-27 WITH A TAXIWAY - PROFESSIONAL ENGINEERING SERVICES

Dear Selection Committee.

We are enthusiastic about the future of Pinellas County (County) and the St. Pete-Clearwater International Airport (PIE). The airport continues to see growth, spurring the need to improve and expand infrastructure to meet this demand.

Michael Baker will listen to your needs and apply our proven work plan to support your project goals while maintaining safe airport operations. Our collaborative plan finds its strength in the unique expertise and application of lessons-learned from our in-house airfield engineering experts and specialty teaming partners. PIE will continue to benefit from our team's proven success on airfield projects as we bring action-ready solutions proven to facilitate a smooth construction process.

Michael Baker has developed close working relationships with staff, county personnel, and decision makers over the span of 15-years and 20 projects. We look forward to the opportunity to continue that relationship on this exciting project.

We have thoroughly researched and understand this project. This has allowed us to tailor a team that has the unique abilities and specific project experience that this project requires. Both Nathan and I are committing this team to meet the demands if this project. They will be led by an exceptional engineer and project manager, Nathan Parish, PE, who will leverage his 17 years of expertise, including 10 years of PIE engineering experience.

With over 165 dedicated aviation professionals, we have the necessary "bench-depth" and breadth of expertise to meet the project demands. We will provide clear communication and follow-through on every task. Our team is ready, willing, and able to provide exceptional client service and deliver an outstanding project for PIE.

Thank you for the opportunity to submit these qualifications and we welcome any questions or inquiries on the information contained within.

Respectfully submitted,

Michael Baker International, Inc.

Mark Kistler, PE

Vice President, Aviation Practice Lead office: 813.466.6016 | mobile: 813.579.8346

mkistler@mbakerintl.com

PINELLAS COUNTY AND PIE WILL BENEFIT FROM MICHAEL BAKER'S:

INSTITUTIONAL KNOWLEDGE
Nathan Parish, Mike Thompson, Tom
Shilling and Mark Kistler have served
PIE for a combined 58 years on airfield
projects, dating back to 1996. Tom
served as the EOR for the nearby
Taxiway Rehabilitation Phase 2 project.

ECONOMICAL SOLUTIONS

We have detailed a plan to save PIE money from project start to finish. This includes the staffing of our design team, value engineering, reusing construction materials and controlling cost during construction.

ENGAGED TEAM
Our team is fully commited to this project, all teaming partners have been engaged in developing our project approach.

'AIRPORT FIRST' MENTALITY
Our approach centers around
minimizing impacts to your airport
operations.

DIVERSE TEAM

Our core team has the right balance of local familiarity and similiar nationwide large hub experience. As such our team brings a deep and broad range of airfield construction expertise.

PLEASE USE ADOBE SOFTWARE TO VIEW THIS DOCUMENT TO ENSURE ALL GRAPHICS DISPLAY PROPERLY.



PROFESSIONAL SERVICES



Name of Consultant Michael Baker International, Inc.

Contact Person Nathan Parish, PE, CCM Project Manager

Address

4211 West Boy Scout Boulevard, Suite 500 Tampa, Florida 33607

Telephone Numbers office: 813-466-6025 mobile: 813-355-1243

Fax Number 813-889-3893

Email Address nathan.parish@mbakerintl.com



FIRM INTRODUCTION

Michael Baker, founded in 1940, is a leading provider of engineering, development, intelligence and technology solutions with global reach and mobility. For more than 81 years, Michael Baker has provided full in-house services to airports worldwide, serving as the extension of staff to many airports throughout the country. Our experts perform services from the initial planning concepts and environmental analysis, through the design, permitting and construction phases, to project closeout.

Michael Baker's Aviation Group has more than 160 dedicated aviation staff, providing aviation services including aviation planning, environmental studies and permits, airfield design, landside design, access roadway, security system design, terminal, hangar architectural design, construction administration, resident inspection, grant assistance, and

assistance with evaluating onand off-airport development impacts on airports. As such, we know the special requirements of airports of all sizes, from the smallest, privately owned general aviation (GA) facilities to the busiest international airports in the world. We are one of the top aviation consulting firms in the nation, currently ranked 22nd nationally in airport design and are also consistently ranked in the upper 10% of the Top 500 Engineering Design firms according to Engineering News-Record (ENR).



- 31 Top 500 Design Firms
- **18** Top Pure Designers
- 22 Airports*
- 5 Bridges*
- 14 Highways*
- 12 Transportation

LEADERS IN AVIATION DESIGN AND ENGINEERING



81 years of aviation design



340 airports served worldwide



22nd in airport design by ENR



3,000 professional staff in 100+ offices

UNRIVALED EXPERIENCE



aprons completed since 2001



runways completed since 2001



taxiways completed since 2001

^{* 2020} listed – 2021 ranking not yet reported for this category



OUR INSTITUTIONAL KNOWLEDGE

The Michael Baker team is uniquely qualified for this project because of their extensive airfield project experience at PIE. We will leverage nearly 60 years of combined PIE experience from our four core team members.

Team Member Experience at PIE



NATHAN PARISH, PE, CCM | Project Manager

Our team will be led by Project Manager, Nathan Parish, PE, CCM. He has 17 years of airfield experience including project management, design, and construction services for commercial service, general aviation, and military airports throughout Florida and the Southeast. His project experience includes airfield pavements, airfield drainage, pavement condition field surveys, airfield lighting, signage, and navigational aids, airfield security fencing and gates, and airfield lighting vaults. Nathan has worked on 6 projects at PIE over the last 10 years and is familiar to the current PIE staff. Nathan's roles at PIE have included Civil Engineer of Record, Airfield Engineer, and Resident Engineer.

TOM SCHILLING, PE | Airfield Engineer

Tom served as Project Manager and Engineer of Record for the Taxiway Rehabilitation Phase 2 project and Airfield Engineer on the Taxiway Rehabilitation Phase 1 project at PIE. In his role on the projects, he was involved in all aspects of the design including pavement geometry and design, drainage design, and construction phasing. He was also directly involved during the construction phase of the projects, coordinating directly with the County's Construction Manager and Contractor. Tom is experienced in preparing construction phasing exhibits for presentation and discussion with project stakeholders including airlines, tenants, ATCT, FDOT, and FAA. He is familiar with Pinellas County Purchasing Department Procedures and has worked directly with the Department to prepare Bid Documents.

MARK KISTLER, PE | Principal in Charge

Our Aviation Practice Lead and Principal in Charge, Mark Kistler, is the Corporate Committee Chair for FAC and presently sits on the FAC Board of Directors, where he has helped develop the FAC Strategic Plan Update. He is also a member of the State Affairs Committee and helps advocate for issues important to Florida Airports and industry partners. He has also made sure that the ongoing knowledge and message is conveyed to clients. Recent issues he advocated for included the airport exemption of the mandatory use of a 3rd party construction inspector for projects with FDOT funding as well as the increase in the dollar value limits under CCNA. Mark's roles on PIE projects have included Engineer of Record, Quality Control Engineer, and Airfield Engineer.

MIKE THOMPSON | Airport Planner & Project Coordinator

Michael Thompson will serve as our Lead Airport Planner and has provided professional airport and land use planning services to PIE over the past 25 years. These service have included, but were not limited to: airfield layout design, the Environmental Assessment for the extension of Runway 17L-35R, and a wide variety of airspace use and related Community Noise Assessment studies. He has been a key part of past PIE airfield improvement projects that have included the realignment and centerline separation of Taxiway Alpha and its various Terminal Apron taxiway connectors. Mr. Thompson is keenly aware of the need for the safe and efficient maintenance of traffic during strategic phases of the construction of Taxiway Charlie, particularly with respect to key airport stakeholders such as the U.S. Coast Guard and the Pinellas County Sherriff's Office Flight Unit.



SUBCONSULTANTS



Blue Wing Environmental, LLC (BWE) is an ecological consulting firm that provides professional services for wildlife and wetland

permitting, planning, and mitigation services. BWE provides Federal Aviation Administration (FAA) Qualified Airport Wildlife Biologist (QAWB) services to conduct Wildlife Hazard Assessments, Wildlife Hazard Management Plans, Wildlife Hazard Site Visits, and training for commercial service and general aviation airports. BWE Owner Sarah Brammell hasprovided environmental services at PIE for more than 14 years, even before BWE was established.

ECHO ECHO UES, Inc. (ECHO) founded in 2017, utility engineering & survey provides Subsurface Utility Engineering

(SUE) and Survey and Mapping professional services throughout Florida. Their services include the study, analysis and depiction of existing underground utilities potentially impacted by a project, in addition to the collection of accurate topographical and specific purpose surveys to represent the above ground site conditions. ECHO works on many different types of projects, including airports, roadway design, reconstruction, widening and safety improvements, utility design, construction and maintenance. Echo has provided services for five projects over the last four years at PIE, including the recent Runway 18-36 Rehabilitation project.

LANDIS EVANS

Landis Evans + Partners, Inc. (Landis),

began providing civil engineering services to the Tampa Bay area in early 1980. Landis is locally recognized for assisting communities in a variety of ways from solving neighborhood drainage projects to providing services for master plan implementation projects. Core services include stormwater hydrology and hydraulic design and computer modeling. Landis has provided services to PIE/Pinellas County since their inception in 1979.



MC Squared, Inc. (MC2) is a consulting GEOTECHNICAL-ENVIRONMENTAL engineering firm specializing in geotechnical

and foundation engineering, pavement engineering and design, construction services and material testing, environmental engineering, pile driving analysis (PDA), instrumentation, environmental Phase I and Phase II, and geophysical consulting services. MC2 was founded in 2001 and is very familiar with FAA specifications, advisory circulars, and testing protocols. MC2 has CMEC/AASHTO accredited and FDOT qualified testing laboratories. MC2 has provided geotechnical services for Michael Baker for nearly 10 years. MC2 has also provided services on three projects at PIE within the last 5 years.

OHMEGA The Ohmega Group (Ohmega) established in 2004, has extensive experience providing specialized electrical & structural engineering design services for airports, including security systems, airfield engineering and high-mast lighting. Ohmega is a certified veteranowned, minority-owned, small disadvantaged business. A trusted teaming partner, Ohmega has provided electrical engineering services on four Florida Airport projects in the last four years for Michael Baker.

Founded in 1972, **RWDI** is an international consulting engineering firm with over 45-years or experience specializing in wind, microclimate, and environmental studies, including the effects of jet blast and rotor wash from aircraft on the airport environment. RWDI's expert consultants provide clients with the services necessary to make ecological, economical, and equitable decisions. RWDI's approach is built on a foundation of innovative thinking, modeling technologies and collaboration that assists designers in achieving high performance while reducing cost, time, and risk. RWDI has provided wind engineering services to Michael Baker since 2003.

SIGHTLINE Sightline, Inc. (Sightline) Established in 2006, is the recognized authority

airfield pavement marking. In 2006, they were awarded a research project to write the Airfield Marking Handbook for the Innovative Pavement Research Foundation through a Cooperative Research Agreement with the Federal Aviation Administration, that was later published in 2008. Sightline delivers solutions ranging from specification development to quality assurance to many airports including commercial, GA, and military and regularly team consulting engineers as a specialty sub-consultant to provide unique solutions to airport clients. Sightline just completed the first assessment under the FDOT Statewide Airport Marking Program at PIE.

SUBCONSULTANT SUMMARY

Firm	DBE / MBE	Pinellas SBE	Experience at PIE	Experience with Michael Baker
Blue Wing	✓	✓	✓	
Echo	✓	✓	✓	✓
Landis Evans		✓	✓	
MC Squared	✓	✓	✓	✓
Ohmega	✓			✓
RWDI				✓
Sightline	✓		✓	



PROFESSIONAL SERVICES TO BE PROVIDED

Our team includes a wide range of technical expertise and a deep bench of management and production capacity. We have committed the expertise to deliver the services identified in the RFP from kickoff through design, permitting, and construction.

PROJECT MANAGEMENT



- Kick-off & Scoping
- **Airport Coordination**
- Stakeholder Coordination
- Subconsultant Management
- **Contract Management**
- Schedule Management
- **Production Management**
- **Progress Meetings**
- **Quality Control**
- **Grant Services**

TOPOGRAPHIC SURVEY, MAPPING, & SUE



- Mobile LiDAR
- High-Resolution Imaging



- Static LiDAR
- Survey Control
- Subsurface Utility Locates and Inverts
- **Boring Locates**

GEOTECHNICAL INVESTIGATION



- Field Soil Testina
- **Pavement Cores**
- **Laboratory Testing**
- Geotechnical Report

ENVIRONMENTAL



- Wildlife Hazard Mitigation
- Wildlife Surveys
- **Pinellas County Permitting**
- SWFWMD Permitting
- Army Corps of Engineers Permitting
- Agency Coordination and Meetings

AIRPORT PLANNING AND ROTOR WASH ANALYSIS



- Validate Aircraft Fleet Mix for Pavement Design
- **Review Future Terminal Apron** Expansion
- Obstruction Evaluation / Airport Airspace Analysis
- Helicopter Approach and Departure
- Helicopter Rotor Wash Analysis
- Runway Closure Noise Implications

AIRFIELD ENGINEERING





GEOTECHNICAL • ENVIRONMENTAL MATERIALS TESTING

- Pavement Geometrics
- Pavement Design and Value Engineering
- **Pavement Materials Recycling**
- **Construction Phasing**
- Constructability
- **Pavement Markings**
- **Grading and Turfing**
- Engineer's Narrative
- **Construction Cost Estimating**
- Value Engineering
- **Technical Specifications**
- Front End Documents
- Construction Safety and Phasing
- **Temporary Gates**

DRAINAGE ENGINEERING





- **Drainage Modeling**
- Stormwater Management Facilities
- **Drainage Conveyance**
- **Erosion Control**
- **SWFMWD Permitting**
- Pinellas County Permitting
- **Nutrient Reduction**
- Engineer's Narrative
- **Construction Cost Estimating**

Airfield Lighting Vault Modifications

Technical Specifications

ELECTRICAL ENGINEERING





- Airfield Signage
- Apron High-Mast Lighting
- **Electrical Cabling**
- **Electrical Load Calculations**
- Engineer's Narrative
- **Construction Cost Estimating**
- **Technical Specifications**

Unique Team Capability



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ARCHITECT – ENGINEER QUALIFICATIONS PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway – Professional Engineering Services Clearwater, Florida

2. PUBLIC NOTICE DATE May 19, 2021

3. SOLICITATION OR PROJECT NUMBER

21-0546-NC (SS)

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Mark E. Kistler, P.E., Vice President

5. NAME OF FIRM

Michael Baker International, Inc.

6. TELEPHONE NUMBER

813-466-6016

7. FAX NUMBER 813-889-3893 8. E-MAIL ADDRESS

813-889-3893 mkistler@mbakerintl.com

				C. PROPOSED TEAM	
			(Complete this section	for the prime contractor and all key subcontracto	rs.)
	PRIME	Check) N-C ABATMER NOOSON- ONOCON-	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	4211 West Boy Scout Boulevard, Suite 500 Tampa, FL 33607	Project Management, Airfield Engineering
b.	X		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	12740 Gran Bay Parkway West, Suite 2110 Jacksonville, FL 32258	Airfield Engineering
c.	X		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	200 South Orange Avenue, Suite 1050 Orlando, FL 32801	Drainage Engineering
d.	X		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	420 Technology Parkway, Suite 150 Norcross, GA 30092	Pavement Support, Airfield Phasing
e.	X		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	310 New Pointe Drive Ridgeland, MS 39157	Mobile LiDAR
f.	Х		Michael Baker International, Inc. [X] CHECK IF BRANCH OFFICE	1306 Concourse Drive, Suite 500 Linthicum, MD 21090	QA/QC, Airfield Electrical
g.		X	Blue Wing Environmental, LLC [] CHECK IF BRANCH OFFICE	19607 Lake Osceola Lane Odessa, FL 33556	Environmental Services
h.		Х	CHECK IF BRANCH OFFICE	16514 N. Dale Mabry Highway Tampa, FL 33618	SUE & Survey Services
i.		Х	[] CHECK IF BRANCH OFFICE	3810 Northdale Blvd, Suite 100 Tampa, FL 33624	Drainage Support
j.		Х	CHECK IF BRANCH OFFICE	5808 Breckenridge Pkwy, Suite C Tampa, FL 33610	Geotechnical Services
k.		Х	CHECK IF BRANCH OFFICE	1652 San Marco Boulevard Jacksonville, FL 32207	Airfield Electrical
l.		Х	CHECK IF BRANCH OFFICE	2000 Ponce de Leon Blvd, Suite 600 Coral Gables, FL 33134	Wind Studies
m.		X	Sightline, Inc. [] CHECK IF BRANCH OFFICE	15483 Enterprise Way Culpeper, VA 22701	Pavement Marking





PRINCIPAL-IN-CHARGE

PROJECT MANAGER ENGINEER OF RECORD

QUALITY ASSURANCE

Mark Kistler, PE*1

Nathan Parish, PE, CCM*1

Tracy Hollida, PE*1

PROJECT COORDINATOR

Mike Thompson* 1

AIRFIELD PAVEMENT SPECIALIST

Quintin Watkins, PE*1

AIRFIELD ENGINEERING

Tom Schilling, PE*
Shawn Sentelle*
Michael Oliver

AIRFIELD PHASING

Kevin Sigg, PE* 1

DRAINAGE

Paul Snead, PE* 1 Bruce McArthur, PE* 4

AIRFIELD ELECTRICAL

Sunil Khatri, PE* 1 Mark Morely, PE, RCDD* 6

PAVEMENT MARKING

Donna Speidel* 8

MOBILE LIDAR

Stephen Clancy, PLS, PSM, GISP* 1

SUE SURVEY

Jerry Comellas, Jr., PE* ³ Michael Patterson, PSM ³

GEOTECHNICAL

Mohammad Bazzaz, PhD, PE, CPM* ⁵ Winston Stewart, PE ⁵

ENVIRONMENTAL

Sarah Brammell* 2

SUSTAINABILITY

Mackenna Perkins, ENV SP ¹

WIND STUDIES

Leticia Martin, PE 7

COST ESTIMATING

Jeff Weiss, CQM-C*1

FIRM LEGEND

- Michael Baker International, Inc.
- 2 Bluewing Environmental
- 3 Echo UES, Inc.

- 4 Landis Evans + Partners, Inc.
- 5 MC Squared, Inc.
- 6 The Ohmega Group, Inc.
- 7 RWDI USA, LLC
- 8 Sightline, Inc.
- * Resumes Included

		F KEY PERSONNEL PE			СТ			
12.	NAME	Complete one Section E to 13. ROLE IN THIS CONT		person.)	1	4. YEARS	EXPERIENC	CE
Nat	han Parish, PE, CCM	Project Manager			a. TOTAL:	17	b. WITH CURRENT FIRM	4
	FIRM NAME AND LOCATION (City and State) hael Baker International, Inc., Tampa, FL				l		Michae	
B.S	EDUCATION (DEGREE AND SPECIALIZATION) ., Civil Engineering, Mississippi State Univers ., Engineering, Polk State College, 2001	ity, 2003	FL, Profe	NT PROFESSIONAL F SSIONAL Engineer - Construction Mana	Civil, 683	317, 200		CIPLINE)
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publication		wards, etc.)	Conocidotton Man	agor, 0 12	1, 2010		
•	Familiar with PIE staff, airport infrastructure,	•				41 <u>-</u> 1:		
•	Experienced with design team: more than 10 Ten (10) years of PIE experience including:		•	• •	•			andling
•	Significant similar project experience: 22 tax	•		•		ing / CDC	iggage i ii	ariding
•	Industry Involvement: ACC Engineering Con	· · · · · · · · · · · · · · · · · · ·	•	•				
		19. RELEVANT F					·D	
	(1) TITLE AND LOCATION (City and State) Terminal Apron Hardstand Expansion – P	Phase 1. St. Pete-Cle	arwater	PROFESSIONAL S	(2) YEAR C SERVICES		FRUCTION (If Applicable)
	International Airport, Clearwater, Florida			2013			2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[] Check if project p				
a.	Pinellas County. Resident Project Represent				•			
	issues between the contractor and owner. Prand on-site monitoring and tracking of day-to							
	advising the client of construction status and	•					•	
	gate displacement, aircraft gate markings			•	•			uncruit
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	OMPLETE	:D	
	Ticketing and Baggage Handling System Pete-Clearwater International Airport (PIE), Clearwater, Florid		PROFESSIONAL S 2020			RUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Pinellas County. Civil Engineer of Record. F		ning the civi	[X] Check if project p				tina
b.	construction impacts to adjacent boarding G		•	•	•	•		ung
	pavement designs, site layout, baggage cart							te
	lighting and pavement marking. Relevance:	recent PIE experien	ce, staff fa	miliarity, work ag	gainst ter	minál, d	rainage	
	adjustments, temporary aircraft gate relo	<u> </u>	_	mprovements, P	inellas C	ounty pe	ermitting,	
	SWFWMD permitting. \$9,700,000 (Total Co	ontract Value) \$1,405,	919 (Fee)		(2) YEAR C	OMPLETE	:D	
	New General Aviation Center Project, Pur	nta Gorda Airport (Po	GD),	PROFESSIONAL S	ERVICES		TRUCTION (
	Punta Gorda, Florida			Est. 202			Est. 202	21
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project p				
	Charlotte County Airport Authority. Airfield F and scope of work to secure project win. Res							
	engineering components of the project. Rele		,					
	airfield phasing, drainage improvements,							.9,
	(1) TITLE AND LOCATION (City and State)	avilla Tamas Dav D	!	PROFESSIONAL S	(2) YEAR C		D TRUCTION (If Applicable)
	Taxiway A East Extension Project, Brooks Airport (BKV), Brooksville, Florida	sville - Tampa Bay R	egionai	Est. 202		CONS	Est. 202	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE		[X] Check if project p	erformed wi	th current f	firm	
d.	Hernando County. Project Manager and Air	field Engineer of Reco	ord. Respor					gement,
	and the management of internal staff to prep							
	Also serving as the engineer of record respo				•			
	airfield phasing, new taxiway pavement, a	airfield lighting, draii	nage impro	ovements, SWFW	ואוט pern	iitting. \$	183,856	(Fee)
	\$2,300,000 (Est. Const.) (1) TITLE AND LOCATION (City and State)				(2) YEAR C	OMPLETE	:D	
	Taxiways D1 and D2 Rehabilitation, Desti	n-Fort Walton Beach	Airport	PROFESSIONAL S	ERVICES	CONST	RUCTION (If Applicable)
	(VPS), Valparaiso, Florida (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SDECIEIC BOLF		2019		4	2019	
e.	Okaloosa County. Project Manager. Respor		eke to Mich	[X] Check if project p				ا ماريام
	and budget for design and construction servi						•	
	identified updates to the design and construct				•			
	reconstruction, reuse of paving materials				rovemer	its \$31	9,484 (Fe	
					STAN	DARD FOR	RM 330 (REV	. 8/2016) PAGE

		F KEY PERSONNEL PR Complete one Section E			СТ			
12.	NAME	13. ROLE IN THIS CON		person.)	1	4. YEARS	EXPERIEN	CE
Ma	rk Kistler, PE	Principal-in-Charge			a. TOTAL:	28	b. WITH CURRENT FIRM	28
Mic	FIRM NAME AND LOCATION (City and State) hael Baker International, Inc., Tampa, FL						Michae	
M.S Uni B.S	EDUCATION (DEGREE AND SPECIALIZATION) 5.C.E., Civil Engineering/Transportation Engin versity, 1992 .C.E., Civil Engineering, Clemson University,	1991	FL, Profe	NT PROFESSIONAL F ssional Engineer,			TE AND DIS	CIPLINE)
18. •	OTHER PROFESSIONAL QUALIFICATIONS (Publication 15-year history of working on projects at PIE Delivered 5 aircraft apron construction/expar Developed and delivered aircraft apron proje	s, Organizations, Training, A nsion projects at PIE		orts in Florida				
		19. RELEVANT I	PROJECTS					
	(1) TITLE AND LOCATION (City and State) Phase III Terminal Renovations, St. Pete- Airport (PIE), Clearwater, Florida		onal	PROFESSIONAL S		CONS	TRUCTION ((If Applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Pinellas County. Project Manager. Responsiteam. Relevance: recent PIE experience, to Allegiant passenger routing through constitutions.	sible for coordination v	struction,	ramp phasing, a	nce and over ircraft gat Construction	versight te displ on)	of the pro acement,	,
	(1) TITLE AND LOCATION (City and State)	Improvemente Breis	ot 64	PROFESSIONAL S	(2) YEAR C		ED TRUCTION ((If Applicable)
	Ticketing and Baggage Handling System Pete-Clearwater International Airport (PIE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	E), Clearwater, Florid	•	2020 [X] Check if project p			2020	п Арріісавіе)
b.	Pinellas County. Senior Engineer. Respons conflicts with the existing electrical vault, stie improvements project. Other efforts Releva adjustments, temporary aircraft gate relo permitting. \$9,700,000 (Total Contract Value)	ible for civil/site comp e utilities and outfall conce: recent PIE expending, cation and marking,	onnection werience, sta	in of the project ar with the drainage s aff familiarity, wo	nd coordir ystem for rk agains	nating co the land at termin	onstructior Iside nal, drain	age
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C			
	Roadway and Parking Lot Improvements, International Airport (PIE), Clearwater, Floring Control of the Control o	orida		PROFESSIONAL S 2012			TRUCTION ((If Applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Pinellas County. Principal-In-Charge. Responsive management and project delivery. Responsive management and project delivery. Responsive management and project delivery. Reproject landside terminal signage. Relevance construction, perimeter road adjustment,	onsible for general over Responsibilities also in miscellaneous airport e: PIE experience, e	cluded the roadway re mployee p	wayfinding signag habilitation and pa arking lot for car	g quality of e concept arking lot of or operations	control, o t develor expansion ator, SID	client coor oment and on work a	d design.
	(1) TITLE AND LOCATION (City and State)		<u> </u>		(2) YEAR C	OMPLETE		
	New General Aviation Center Project, Pur Punta Gorda, Florida		GD),	PROFESSIONAL S 2022 (Es	st)		TRUCTION (
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Charlotte County Airport Authority. Project N quality control reviews. Relevance: aircraft drainage improvements, SWFWMD permi	Manager. Responsible apron, apron pavem	ent, taxiwa	ay pavement, airf	coordinat field light uction)	ion, con i ng, airf	tract mana ield phas	
	(1) TITLE AND LOCATION (City and State)	wation Tallahaasaa		PROFESSIONAL S	(2) YEAR C		ED TRUCTION ((If Applicable)
	South Apron Rehabilitation and Reconstr International Airport (TLH), Tallahassee, I (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	Florida		2018 [X] Check if project p			2018	ii Applicable)
e.	City of Tallahassee, Florida. Project Manage coordination with client and subconsultants, orders, performing substantial and final comdocuments. Relevance: aircraft apron, aprimprovements, stakeholder/tenant coordination.	er. Responsible for pr periodic site visits, sh pletion inspections, pr on & taxiway pavem	op drawing eparation c ent, airfiel	gement, quality co reviews, respond of punch list and as d & apron lightin	ontrol of point to RFI ssembling g, airfield	roject de s, prepa the Pro l phasir	eliverables ering chan eject close eg, draina	ge out i ge
	improvemento, stakenoluci/tenant coolu	παιιστι. ψ1,010,131	i olai Guilli	$aoc value) \psi i,023$,010 (1 66	$\gamma \psi i, \sigma i$,011 (<i></i>

15. Mic 16.	NAME	Complete one Section E for each	SED FOR THIS CONTRAC h key person)	СТ			
15. Mid 16.		13. ROLE IN THIS CONTRACT	n ney percent,	14	4. YEARS E	EXPERIENC	CE
Mic 16.	ke Thompson	Airport Planner & Project	Coordinator	a. TOTAL:	36	b. WITH CURRENT FIRM	3
	FIRM NAME AND LOCATION (City and State) chael Baker International, Inc., Tampa, FL					Michael	
N / I	EDUCATION (DEGREE AND SPECIALIZATION)	Lit. to at Tankanalani. 1000	17. CURRENT PROFESSION DISCIPLINE)	NAL REGIS	STRATION	(STATE AN	ID
В.5	B.A., Airport Planning and Design, Florida Inst S., Air Commerce, Florida Institute of Technolo	ogy, 1983	·				
	OTHER PROFESSIONAL QUALIFICATIONS (Publication				.d	:t DI	ı
•	Well-versed in Pinellas County's municipal g Developed and delivered multiple technical s	•	•		•		
•	public outreach and presentation to the Pine			i iioise rei	ateu iacii	пту ріанін	irig,
•	26 years providing airfield, land use, and fac	•					
•	Experience providing similar projects and stu	• •					
	(1) TITLE AND LOCATION (City and State)	19. RELEVANT PROJE	CTS	(2) VEAD C	OMPLETE	D	
	PCSO Hangar Assessment, St. Pete-Clea	rwater International Airpo	rt PROFESSIONAL S	(2) YEAR C ERVICES		RUCTION (If Applicable)
	(PIE), Clearwater, Florida		Est. 202	1		Est. 202	22
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) ANI		[X] Check if project p				
a.	Pinellas County. Project Manager / Sr. Airp						
	Clearwater International Airport. Relevance	•					•
	Sheriff's Office fixed wing aircraft activity current and on-going activity by the US C	•	_	•		na protec	Ct
	(1) TITLE AND LOCATION (City and State)	Joast Guaru. Taxiway Dia	νο access at FIL. ψε 1,	(2) YEAR C	OMPLETE		
	Runway Incursion Mitigation Study, St. P	ete-Clearwater Internation	PROFESSIONAL S			RUCTION (
	Airport (PIE), Clearwater, Florida		Est. 202			ot Applica	able
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) ANI		[X] Check if project p	erformed wit	th current fi	irm	
		rt Diannar - Drataggianal ('	angultant Carviaga for t	a Dunwa	v Inguroi	on Mitiaa	tion
			onsultant Services for the		•	•	
	Program (RIM) Study Relevance: PIE expe				•	•	
	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State)	rience, ATCT coordination	n, understanding of ai	(2) YEAR C	erations	at PIE \$3	31,757
_	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration	rience, ATCT coordination	n, understanding of ai	(2) YEAR C	CONST	at PIE \$3	31,757
	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration County Sherriff's Department Safety Cen	rience, ATCT coordination n Coordination – Pinellas ter Heliport, St. Pete-	n, understanding of ai	(2) YEAR C	CONST	at PIE \$3	31,757
C.	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration	rience, ATCT coordination n Coordination – Pinellas ter Heliport, St. Pete- prida	PROFESSIONAL S 2017	(2) YEAR C ERVICES	OMPLETEI CONST N	at PIE \$3	31,757
c.	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration County Sherriff's Department Safety Cen Clearwater International Airport (PIE), Flo	n Coordination – Pinellas ter Heliport, St. Pete- orida	PROFESSIONAL S 2017	(2) YEAR CERVICES	OMPLETEI CONST N	at PIE \$3	31,757 If Applicable) able
c.	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration County Sherriff's Department Safety Cen Clearwater International Airport (PIE), Flo (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Pinellas County. Project Manager / Sr. Airpor FAA Site Inspection and FDOT Registration	n Coordination – Pinellas ter Heliport, St. Pete- orida D SPECIFIC ROLE ort Planner – Conducted the of the PCSO Safety Center	PROFESSIONAL S 2017 Check if project perference required filing of FAA	(2) YEAR C ERVICES ormed with of	OMPLETEI CONST N current firm 0-1 and cience, pi	at PIE \$3	31,757 If Applicable) able ed the
c.	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration County Sherriff's Department Safety Cen Clearwater International Airport (PIE), Flo (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) ANI Pinellas County. Project Manager / Sr. Airport FAA Site Inspection and FDOT Registration helicopter approach surfaces, relevant st	n Coordination – Pinellas ter Heliport, St. Pete- orida D SPECIFIC ROLE ort Planner – Conducted the of the PCSO Safety Center	PROFESSIONAL S 2017 Check if project perference required filing of FAA	(2) YEAR C ERVICES Form 7460 PIE experi	OMPLETEI CONST N current firm 0-1 and coience, pi 0 (Est. Fo	at PIE \$3 RUCTION (ot Application of the coordinate of the coord	31,757 If Applicable) able ed the
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	Program (RIM) Study Relevance: PIE expe (Fee) (1) TITLE AND LOCATION (City and State) Heliport 7460-1 Filing / FDOT Registration	rience, ATCT coordination	n, understanding of ai	(2) YEAR C	CONST	at PIE \$3	31,75

		F KEY PERSONNEL PROPOSED		СТ			
12.	NAME (C	Complete one Section E for each ke 13. ROLE IN THIS CONTRACT	y person.)	1	4 YFARS	EXPERIENC	CE CE
	m Schilling, PE	Airfield Engineer		a. TOTAL:	22	b. WITH CURRENT	4
	FIRM NAME AND LOCATION (City and State) chael Baker International, Inc., Jacksonville, F	L				Michael	
B.S	EDUCATION (DEGREE AND SPECIALIZATION) S., Civil Engineering, University of Florida, Gai	nesville, 1999 FL, Pro	RENT PROFESSIONAL I Sessional Engineer,			TE AND DIS	CIPLINE)
18. •	OTHER PROFESSIONAL QUALIFICATIONS (Publication Experience as the Project Manager and Engine Experience coordinating directly with the Pine Experienced in preparing construction phasing	neer of Record for the Taxiway ellas County's Construction Mar g exhibits for presentation and	Rehabilitation Phas nager and Contractor discussion with pro	or. ject stake	holders	,	
•	Familiar with Pinellas County Purchasing Dep More than 20 years of experience in the design rehabilitations, taxiway rehabilitations/reconst	gn and construction of airfield p	avement projects in	Florida iı			
		19. RELEVANT PROJECTS	5				
	(1) TITLE AND LOCATION (City and State) Taxiway Rehabilitation Phase 2, St. Pete- Airport, Clearwater (PIE), FL	Clearwater International	PROFESSIONAL S	(2) YEAR (SERVICES		TRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND		Check if project perf				
a.	Pinellas County. Project Manager and Engin Taxiway 'M' and other taxiway improvements estimate, and coordinating construction phase PIE experience, adjacent and connected patched stakeholder coordination, coordination w	s at PIE. Responsible for prepa sing. Responsible for coordinat project, asphalt taxiway, histo	ring construction do on with subconsulta orical knowledge,	ocuments ants and t	enginee he Airpo	er's report rt. Releva	, cost
	(1) TITLE AND LOCATION (City and State)	Till County's construction inc	illager.	(2) YEAR (OMPLETE	ED .	
	Taxiway Rehabilitation Phase 1, St. Pete-	Clearwater International	PROFESSIONAL S	SERVICES	CONST	TRUCTION (If Applicable)
	Airport (PIE), Clearwater, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	Check if project perf	ormed with			
b.	Pinellas County. Project Manager. Respons Taxiway 'A, Taxiway 'L', and Taxiway 'P' at estimates, and coordinating construction phabid phase services. Relevance: PIE experie construction phasing, stakeholder coordinating to the construction phasing, stakeholder coordination (City and State)	sible for the design and construct PIE. Responsible for preparing asing. Responsible for coordina ence, adjacent and connected	ction of a 5,000-food construction docun tion with the prime I project, asphalt t	t portion on nents, eng consultan axiway, l on manag	of the reh gineer's r t and the nistorica er.	abilitation report, cos e Airport. F Il knowled	st Provided
	Northwest Development – Hangar 1005, C	Cecil Airport (VQQ).	PROFESSIONAL S	(2) YEAR (SERVICES		TRUCTION (
	Jacksonville, Florida		2020			Est. 202	:1
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Jacksonville Aviation Authority. Project Manteam. Will be responsible for bid and construent internal project team. Relevance: concepts worked with Nathan Parish. \$875,000 (Feb.)	ager. Responsible for coordina action phase services. Respons crete apron, new asphalt taxio	ible for coordination	subconsun with the mitting, s	iltants, ai Client, S i milar a p	nd interna Subconsult oron func	tants,
	(1) TITLE AND LOCATION (City and State) Strengthen/Rehabilitate Commercial Apro	on – Key West International	PROFESSIONAL S	(2) YEAR (SERVICES		ED TRUCTION (If Applicable)
	Airport, FL	-	2016			2017	,
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Monroe County, FL. Project Manager. Responsering construction documents, engineer	onsible for the design of the reh		mmercial	apron. F	Responsib	
	phasing, critical airfield pavement, replac	ing ACC pavement with PCC	, stakeholder coor	dination	includin	g airlines	5,
	emergency vehicle and ground service ed		cess. \$750,000 (Fe	e) \$10,00 (2) YEAR (1)
	New General Aviation Center, Punta Gord Gorda, FL	ia Airport (PGD), Punta	PROFESSIONAL S	SERVICES		TRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	[X] Check if project p		th current		
e.	Charlotte County Airport Authority. Quality C New General Aviation Center. Design scope pavement, airfield construction phasing, and	e reviewed included the realign	ment of the existing	Taxiway	E new a	nd new ap	
	Relevance: Worked with Team lead by PN \$1,676,977 (Fee) \$18,000,000 (Estimated C	/ Nathan Parish, airfield phas					on.

		F KEY PERSONNEL PE			СТ			
12.	NAME (C	Complete one Section E 1		person.)	4	4 VEARS	EXPERIENC	`F
Tra	acy Hollida, PE	Quality Control Eng			a. TOTAL:	24	b. WITH CURRENT	24
	FIRM NAME AND LOCATION (City and State)						Michael	
M.S Un B.S	EDUCATION (DEGREE AND SPECIALIZATION) S., Civil Engineering, Virginia Polytechnic Instiiversity, 2000 S., Civil and Environmental Engineering, The Fiversity, 1996		VA, Profe	ent professional ressional Engineer, fessional Enginee	0402035	759, 200	TE AND DISC 11	CIPLINE)
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications							
Tra	cy has over two decades of experience dedica	•	and plannii	ng.				
•	Over 24 years of dedicated airport design ex	•		annon the annuature				
•	Developed and delivered multiple airfield appropriately relevant project experience: managed	•	• • •		•	et 5 voor	•	
÷	nightly relevant project experience. managed	19. RELEVANT I		nstruction projects	in the las	si o years	5	
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (
	Deicing Pad and Taxiway P Pavement Rel Compliance Project, Baltimore/Washingto Marshall Airport (BWI), Baltimore, Marylai	on International Thu nd		PROFESSIONAL S 2015	ERVICES	CONS	TRUCTION (1 2015	f Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project p				
a.	MDOT Maryland Aviation Administration. management of subconsultants, management issues; worked closely with construction management services for reconstruction of the Raddress failing pavement issues. Relevance	ent of internal staff s nagement firms and a lunway 15R deicing	schedules attended co pad and Ta	and budgets. In nstruction meeting axiway P to comp	volved in gs. Micha ply with c	resoluti el Baker current F	on of con provided AA standa	struction inclusive
	(1) TITLE AND LOCATION (City and State)	. Neconstructed Ap	ion and ra	1XIVAY \$1,200,01	(2) YEAR (COMPLETE	D	
	Midfield Cargo Apron Improvements, Balt International Thurgood Marshall Airport (ryland	PROFESSIONAL S 2017	ERVICES	CONST	TRUCTION (1 2017	f Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND		· j · u · · · ·	[X] Check if project p	erformed w	ith current	firm	
b.	MDOT Maryland Aviation Administration. Pr							
	team. Michael Baker provided engineering a	•			•			
	the Midfield Cargo Apron for Amazon. The p				order to	meet the	demands	of
	Amazon. Relevance; Cargo Apron Expan (1) TITLE AND LOCATION (City and State)	ision\$540,610 (Fee);	\$12M (Cor	1St.)	(2) YEAR (OMPLETE	-D	
	Midfield Taxilane Rehabilitation, Baltimor	e/Washington Intern	ational	PROFESSIONAL S	` '		TRUCTION (I	f Applicable)
	Thurgood Marshall Airport (BWI), Baltimo	re, Maryland		2020			2020	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project p				
	MDOT Maryland Aviation Administration. Pr							
	Also, responsible for general project oversigl							ning
	project provided Relevance: Taxilane Reco	instruction adjacent	to Cargo F	Apron \$009,000 ((2) YEAR (
	Taxiway T Reconstruction, BWI Marshall	, ,,	nore, MD	PROFESSIONAL S ongoing	ERVICES		TRUCTION (I	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project p				
d.	MDOT Maryland Aviation Administration. Pr			•				•
	of subconsultants, partnering, schedule and	•		•			•	
	apron hardstand for Gates B2 and B4. Includ							taxiway
	corridors at the airport. Relevance: Taxiway (1) TITLE AND LOCATION (City and State)	and Parking Apron	Reconstru	iction. \$739K (Fe		OMPLETE		
	Taxiway K4 Expansion at John F. Kenned	ly International Airpo	ort (JFK)	PROFESSIONAL S	ERVICES		TRUCTION (I	
	New York, NY			ongoing	<u> </u>		Est. 202	3
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND		ı Tavkıra ı	[X] Check if project p				ام مار دما د عا
e.	PANYNJ. Project Manager. Taxiway K4 Exp scope and fee development, client manager		•		,			
	expediated design and required remotely ma			•				
	project includes pavement design, grading, or	• •						10. 1110
	construction phasing. Relevance: New Taxi			•	•			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE b. WITH CURRENT **Quintin Watkins, PE** Airfield Pavement Specialist a. TOTAL: 10 15. FIRM NAME AND LOCATION (City and State) Michael Baker Michael Baker International, Inc., Norcross, GA INTERNATIONAL 16. EDUCATION (DEGREE AND SPECIALIZATION) CURRENT PROFESSIONAL REGISTRATION (STATE AND Graduate Studies, Civil Engineering, Georgia Institute of Technology GA, Professional Engineer - Civil, 027520, 2002 M.S.C.E., Civil Engineering, University of Arkansas at Fayetteville, 1995 B.C.E., Civil Engineering, Georgia Institute of Technology, 1993 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Managed 6 similar airfield pavement reconstruction projects in the last 5 years Experience providing pavement replacement projects/airports Committee Panel Member on ACRP Project 09-18, Rapid Airfield Concrete Pavement Replacement Guidance Member of the Airfield and Airspace Capacity and Delay Committee AVO60 of TRB (Transportation Research Board) and regularly presents at events such as the World Conference on Pavement Asset Management, the Florida Airports Council conference American Society of Civil Engineers (ASCE), Transportation & Development, T&DI Airfield Pavement Practitioner Award for 2017 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED CONSTRUCTION (If Applicable) PROFESSIONAL SERVICES ATL Ramp 19 and TW A3, Hartsfield-Jackson Atlanta, International Est. 2022 Est. 2022 Airport (ATL), Atlanta, Georgia (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Aviation Infrastructure Solutions. Project Manager. Project principal. Replacement of 135,000 SY of Asphalt and PCC pavement on an active apron over a 2-year construction with 10 phases. Relevance: airfield pavement, apron and taxiway pavement, inplace replacement, airfield phasing, operational critical pavement, similar project. \$1,833,256 (Total Contract Value) \$348,115 (Fee) (1) TITLE AND LOCATION (City and State) CONSTRUCTION (If Applicable) LiDAR Scanning and Three-Dimensional Modeling of Airfield, PROFESSIONAL SERVICES 2019 2021 Roadways and Terminals, Hartsfield-Jackson, Atlanta International Airport (ATL), Atlanta, Georgia (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Atlanta, Georgia. Project Manager, Responsible for the collection of data of the entire airfield pavement, landside roadways and interior of the terminals. Relevance: Mobile LiDAR, airfield pavement, maintenance of airfield operations \$2,284,466 (Total Fee) \$404,487 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Taxiway Pavement Replacement Phase I/II, Hartsfield-Jackson, 2020 Atlanta International Airport (ATL), Atlanta, Georgia (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Atlanta, Georgia. Project Manager. Responsible for the coordination of the design of the Taxiway and Runway 9L Pavement Replacement which includes replacement of Runway 9L/27R from Taxiway P through Taxiway T, a few isolated panels on the east end of Runway 9L, Taxiway P from Taxiway M to Taxiway N, Taxiway S, Taxiway N2 and Taxiway N at N2. The replacement includes replacing the full width of pavement along with the replacing the underdrains, lighting and shoulders. Relevance: airfield design, taxiway pavement replacement, airfield electrical, similar project. \$3,337,793 (Total Contract Value), \$1,302,942 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Runway 9L/27R End Around Taxiway - Phases I/II, Hartsfield-Jackson, 2018 2020 Atlanta International Airport (ATL), Atlanta, Georgia (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Atlanta, Georgia. Project Manager. Responsible for the coordination of the design team. As a member of a joint venture team, Michael Baker is providing design services for the first phase of the Runway 9L/27R End Around Taxiway. Relevance: airfield design, airfield phasing, new taxiway pavement. \$3,988,000 (Total Contract Value) \$1,307,448 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Pavement Evaluation Program, Hartsfield-Jackson, Atlanta 2019 2019 International Airport (ATL), Atlanta, Georgia (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Atlanta, Georgia. Project Manager. Responsible for the airfield pavement management update. Relevance: airfield pavement evaluation, pavement repair methods. \$1,200,000 (Total Contract Value), (Fee) \$562,416

		F KEY PERSONNEL PROPO Complete one Section E for ea			Т			
12.	NAME	13. ROLE IN THIS CONTRAC	T Key	person.)	14	. YEARS	EXPERIENC	E
Sh	awn Sentelle	Airfield Designer			a. TOTAL:	21	b. WITH CURRENT FIRM	14
	FIRM NAME AND LOCATION (City and State) Chael Baker International, Inc., Tampa, FL						Michael	
	EDUCATION (DEGREE AND SPECIALIZATION)		7. CURI	RENT PROFESSIONAL	REGISTRA	TION (ST		
	F.A., Art and Visual Communications: Design/lercontinental University, 2005	Ilustration, American						
	a., Graphic Design/Web Design, Gwinnett Tec	hnical College, 2004						
Pos	st-Graduate Diploma, Drafting, Gwinnett Tech	nical College, 1998						
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publication	s, Organizations, Training, Award						
	Well-versed in Pinellas County's permittDeveloped and delivered multiple project	• .		United States				
	 14 years providing aviation design and p 	•			es			
	 Managed 4 similar apron reconstruction 			oo alo oliitod otat	50			
	Experience providing 4 similar projects/similar proj	airports						
	(1) TITLE AND LOCATION (City and State)	19. RELEVANT PRO	JECTS		(2) YEAR C	OMDLETE	D	
	Ticketing and Baggage Handling System	Improvements Project, S	St.	PROFESSIONAL SE			TRUCTION (I	f Applicable)
	Pete-Clearwater International Airport (PIE), Clearwater, Florida		2020			2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project pe				
a.	Pinellas County. Senior Designer. Performe							
	performed construction quantity take-offs an against terminal, drainage adjustments, to							
	County permitting, SWFWMD permitting.					iiipiov	ements, i	IIICIIAS
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C			
	New General Aviation Center Project, Pur	nta Gorda Airport (PGD),		PROFESSIONAL SE Est. 2022		CONS	rruction (ii) Est. 202	
	Punta Gorda, Florida (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	O SPECIFIC ROLE		[X] Check if project pe		h current		
b.	Charlotte County Airport Authority. Senior D		iging th					asing
	plans, airfield pavement layouts, profiles and	d grading, performed const	ruction	quantity take-offs	and othe	r design	ner tasks.	•
	Performed drainage modeling using AutoCA							≱ld
	lighting, airfield phasing, drainage improv	vements, SWFWMD pern	nitting.		\$20,000, (2) YEAR C			
	Taxiway A East Extension Project, Brook	sville - Tampa Bay Regio	nal	PROFESSIONAL SE	RVICES		TRUCTION (I	
	Airport (BKV), Brooksville, Florida			Est. 2022			Est. 202	2
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND		مالم مما	[X] Check if project pe				h. aalaa
	Hernando County. Senior Designer responsi and cost estimates. Assisted in managing plants							y caics
	Relevance: airfield phasing, new taxiway	•			•		•	I.
	\$183,856 (Fee) \$1,900,000 (Const.)	paramon, annous ngirin	.g,	gop. o. o	,		9	-
	(1) TITLE AND LOCATION (City and State)	untion Tallahaana		PROFESSIONAL SE	(2) YEAR CO		ED TRUCTION (II	f Applicable)
	South Apron Rehabilitation and Reconstr International Airport (TLH), Tallahassee, I			2019	INVIOLO	CONO	2018	Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE		[X] Check if project pe	rformed wit	h current	firm	
d.	City of Tallahassee, Florida. Senior Designe							
	administration support including drawing rev							
	drainage adjustments, security fencing a \$7,576,317 (Cons);	nd gates, WMD permittin	ig \$1,0	13,197 (Total Cont	ract Valu	e) \$1,0	29,975 (Fe	;e)
	(1) TITLE AND LOCATION (City and State)				(2) YEAR CO	OMPLETE	ED	
	Taxiways D1 and D2 Rehabilitation, Desti	n-Fort Walton Beach Air	port	PROFESSIONAL SE	RVICES	CONS	TRUCTION (I	Applicable)
	(VPS), Valparaiso, Florida			2019			2019	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Okaloosa County. Senior Designer. Perform		ıdina h	[X] Check if project pe				ina
	aircraft taxi maneuvering, prepared construc							
	Relevancy: taxiway reconstruction, reuse							
	\$319,484 (Fee)		Is.		, , ,,,,,,	-3-	1	

16. EDUCATION (DEGREE AND SPECIALIZATION) M.B.A., Aviation, Embry-Riddle Aeronautical University, 2017 B.S., Civil Engineering, Ohio Northern University, 2010 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND OH, Professional Engineer, 80205, 2015 AL, Professional Engineer, 38773-E, 2019 GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (2) YEAR COMPLETED	nael Baker
Kevin Sigg, PE 15. FIRM NAME AND LOCATION (City and State) Michael Baker International, Inc., Norcross, GA 16. EDUCATION (DEGREE AND SPECIALIZATION) M.B.A., Aviation, Embry-Riddle Aeronautical University, 2017 B.S., Civil Engineering, Ohio Northern University, 2010 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (2) YEAR COMPLETED	nael Baker
15. FIRM NAME AND LOCATION (City and State) Michael Baker International, Inc., Norcross, GA 16. EDUCATION (DEGREE AND SPECIALIZATION) M.B.A., Aviation, Embry-Riddle Aeronautical University, 2017 B.S., Civil Engineering, Ohio Northern University, 2010 AL, Professional Engineer, 38773-E, 2019 GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (2) YEAR COMPLETED	nael Baker
Michael Baker International, Inc., Norcross, GA 16. EDUCATION (DEGREE AND SPECIALIZATION) M.B.A., Aviation, Embry-Riddle Aeronautical University, 2017 B.S., Civil Engineering, Ohio Northern University, 2010 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND OH, Professional Engineer, 80205, 2015 AL, Professional Engineer, 38773-E, 2019 GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State)	RNATIONAL
M.B.A., Aviation, Embry-Riddle Aeronautical University, 2017 B.S., Civil Engineering, Ohio Northern University, 2010 AL, Professional Engineer, 38773-E, 2019 GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (2) YEAR COMPLETED	DISCIPLINE)
B.S., Civil Engineering, Ohio Northern University, 2010 AL, Professional Engineer, 38773-E, 2019 GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State)	
GA, Professional Engineer, 046510, 2020 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) • Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G • Significant airfield design experience, including at more than 10 commercial airports across the country • On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State)	
 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Well versed in FAA phasing requirements set forth in FAA AC 150/5370-2G Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) 	
 Significant airfield design experience, including at more than 10 commercial airports across the country On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (2) YEAR COMPLETED 	
On top of FAA AC updates. AC 150/5300-13B (anticipated this fall) expected to reduce taxiway clearance requirement 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	
19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	
(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	;
North Airfield Improvements, Cleveland Hopkins International Airport PROFESSIONAL SERVICES CONSTRUCTION	ON (If Applicable)
(CLE), Cleveland, Ohio Est. 2021 Est.	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm	
a. City of Cleveland Department of Port Control. Airfield Engineer. Responsible for proposed geometry layout based on F	
requirements and client desires. Verified geometry with AeroTurn software. Coordinated construction phasing with Ope	
constraints and FAA requirements. Also dealt regularly with coordination of subconsultant work schedule and reviewing	
subconsultant work prior to submission to client to ensure clean and consistent design files. Relevance: This project	nciuaea
Mobile LiDAR, new taxiway and apron pavement, airfield phasing, critical airfield pavements. \$7,010,100 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	
New General Aviation Center Project, Punta Gorda Airport (PGD), PROFESSIONAL SERVICES CONSTRUCTION	ON (If Applicable)
Tunta Gorda, Florida	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm	
b. Charlotte County Airport Authority. Quality Control Engineer. Reviewed drawings, plans, and specifications for conform	
FAA advisory circular requirements and constructability. Reviewed plans and specifications for clarity and completeness	
compared quantities with the engineer's opinion of probable cost. Relevance: worked with Nathan Parish, aircraft a pavement, taxiway pavement, airfield lighting, airfield phasing, drainage improvements, SWFWMD permitting.	
(Fee) \$20,000,000 (Est. Const.)	ψ1,010,011
(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	
Tell 2004	ON (If Applicable)
(MDT), Middletown, Pennsylvania ESt. 2021 ESt. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm	
Suggraphenne Area Degianal Airport Authority, Airfield Engineer, Departmentalities included developing supply grading	and phasing
alternatives in AutoCAD Civil 3D for the runway rehabilitation. Responsibilities included completing both an ultimate an	
package grading option for the entire runway, intersecting taxiways, and adjacent turf areas in accordance with FAA cr	
Relevance: complex airfield phasing, critical airfield pavement (runway closure), evaluation of pavement design	n
alternatives, value engineering. \$3,141,905 (Fee)	
(1) TITLE AND LOCATION (City and State) Pavement Management Program, Dallas-Fort Worth International (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION	ON (If Applicable)
	plicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm	
d. Dallas/Fort Worth International Airport. Airfield Engineer. Responsibilities included evaluation of existing pavement for	surface and
subsurface failures. Michael Baker launched an extensive record data search to compile historical construction and wo	
data and information for more than 80 million square feet of pavement comprising the airside network at DFW marking	
based on FAA requirements. Relevance: evaluating existing pavement conditions, pavement repair methods, mo	bile LiDAR
airfield pavements. \$365,282 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED	
Taxiway K4 Expansion Project, JFK International Airport (JFK), New PROFESSIONAL SERVICES CONSTRUCTION	ON (If Applicable)
Tork oity, new Tork	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm	
Port Authority of New York and New Jersey. Quality Control Engineer. Reviewed design documents for the JFK K4 pr	ect prior to
submission to the client for clarity and conformance with FAA design criteria. Relevance: New taxiways and taxiway	75 000 000
reconstruction. Project phasing required significant coordination with airport operations. \$3,050,756 (Fee) \$176 (Est. Const.)	0,000,000

EXPERIENCE b. WITH CURRENT FIRM 4 Michael Baker INTERNATIONAL
CURRENT 4 FIRM Michael Baker
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2001
ence at other
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ort and Onando
D
RUCTION (If Applicable)
Est. 2021
irm
nd hydraulic
t apron, taxiway
' (Fee),
RUCTION (If Applicable)
2018
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conveyance
off apron, taxiway
al Contract Value)
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D
RUCTION (If Applicable)
lot Applicable
irm
sed basin plan
er planning
RUCTION (If Applicable)
lot Applicable
rm
ement in providing
lorida airport

	- PECIMES	DE VEY DEBCONNEL DE	PARACED E	OR THIS CONTRA				
		OF KEY PERSONNEL PF Complete one Section E t	for each key) I			
12.	NAME	13. ROLE IN THIS CONT	TRACT		14	I. YEARS	EXPERIENC	E
Sui	nil Khatri, PE	Airfield Electrical En	ngineer		a. TOTAL:	35	b. WITH CURRENT FIRM	9
Mic	FIRM NAME AND LOCATION (City and State) chael Baker International, Inc., Linthicum, MD				•		Michael	TIONAL
	EDUCATION (DEGREE AND SPECIALIZATION)			NT PROFESSIONAL F			TE AND DISC	(IPLINE)
	S., Electrical Engineering, University of Maryla	and, College Park		essional Engineer,			7 0000	
	mpus, 1989 OTHER PROFESSIONAL QUALIFICATIONS (Publication	ns Organizations Training A		essional Engineer	- Electrica	ı, obbb <i>ı</i>	, 2020	
•	Has worked with Nathan on three (3) releval		waruo, 010.)					
•	Managed the airfield electrical elements for		ruction proi	ects in the last 10	vears			
•	Diverse airfield electrical experience: Has w				,			
•	Apron airfield lighting and signage, high mas	•						
•	Experience with designing new, replacement	• • • • • • • • • • • • • • • • • • • •						
		19. RELEVANT						
	(1) TITLE AND LOCATION (City and State)	alaalailitatian amal Otan		PROFESSIONAL S	(2) YEAR C			f Annilonation
	Deicing Pad and Taxiway P Pavement Re			2015	ERVICES	CONS	ruction (1 2016	Applicable)
	Compliance Project, Baltimore/Washingt		irgooa	2010			2010	
a.	Marshall Airport (BWI), Baltimore, Maryla (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN			[X] Check if project p	arformed wit	h current f	firm	
	Maryland Aviation Administration. Airfield E		naged airfie					
	electrical engineer of record. Relevance: co	•	•	•				
	(Fee) \$20,000,000 (Est. Const.)	onorete apron, aopira	iii taxiiiay,	unnera phaemy,	un noid o	10011104	π. ψ1,200,	510
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C			
	Midfield Taxilane Rehabilitation, Baltimo		ational,	PROFESSIONAL S	ERVICES	CONST	(IRUCTION	f Applicable)
	Thurgood Marshall Airport (BWI), Baltime			2018			2020	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN			[X] Check if project p				
	Maryland Aviation Administration. Airfield E system, provisions for future deicing vaults a							
	i svetam nrovisione for filfilira naicing valilis i			·D liants The Worl	(incluaea	ioad an	id voltage	•
		•	•	•				
	calculations, glare analysis and interface wi	th existing ALCMS. R	elevance: a	asphalt rehabilita			iway, airfi	eia
	calculations, glare analysis and interface with phasing, concrete pavement, airfield pha	th existing ALCMS. R	elevance: a	asphalt rehabilita	tion, asp	halt tax		ieia
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c.	calculations, glare analysis and interface wir phasing, concrete pavement, airfield pha (1) TITLE AND LOCATION (City and State) Deicing Pad Design Services, Atlantic City (ACY), Atlantic City, New Jersey (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN South Jersey Transportation Authority. Airfier mast lighting system, electrical service for donew centralized deicing pad adjacent to Taxallow aircraft to be closer to the departing ruairfield phasing, high-mast apron lighting (1) TITLE AND LOCATION (City and State) Concourse DY RON Apron, Baltimore/Wathurgood Marshall Airport (BWI), Baltime (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AN Maryland Aviation Administration. Airfield E	ith existing ALCMS. Reasing, airfield electrical Electrical Engineer deicing vaults and associativary P to free up valuanways to reduce holding. \$1,838,675 (Fee) ashington Internation ore, Maryland Electrical Engineer. Research	elevance: a al. \$542,55 ort T. Responsite sciated faciliable space over times. nal, sponsible for	PROFESSIONAL S 2019 Check if project perfole for new airfield ties and relocation on the terminal appropriate Relevance: concepts of the conce	(2) YEAR COERVICES ormed with collighting and of existing or on (when the company of the compan	DMPLETE CONST Unc urrent firm nd signa ng utilitie re deicin n, airfie OMPLETE CONST	der Construction (index Construction) age system as in support of the construction (index construction (i	f Applicable) ruction n, high- ort of a and cal, f Applicable)
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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE Stephen Clancy, PSM, GISP Surveyor and Mobile LiDAR Specialist a. TOTAL: 20 CURRENT 12 15. FIRM NAME AND LOCATION (City and State) Michael Baker Michael Baker International, Inc., Ridgeland, MS INTERNATIONAL 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Master's Certificate, Project Management, University of Pittsburgh, Certified GIS Professional, 43694, 2006 Katz Graduate School of Business, 2011 FL, Professional Surveyor and Mapper, LS6450, 2004 B.S., Surveying and Mapping, University of Florida, 1998 18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*) Worked with Nathan on the Space Coast Regional Airport (TIX) airfield-wide mobile LiDAR mapping and high-resolution imaging Florida licensed Professional Surveyor and Mapper Michael Baker's National Technical Manager for Mobile LiDAR. Mobile LiDAR and topographic surveying experience at more than 40 airports nationally, including completion of all airside and landside data collection at Hartsfield-Jackson Atlanta International Airport in Spring 2021 Part of inaugural class for the FAA's IDLE Certification for Airport GIS Nationally recognized expert in Mobile LiDAR, having won multiple awards and written numerous articles over the last 12 years 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED North Airfield Improvements, Cleveland Hopkins International Airport PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Est. 2021 Est. 2021 (CLE), Cleveland, Ohio (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Cleveland Department of Port Control. Technical Manager. Responsible for management of Mobile LiDAR field staff and data collection. Relevance: mobile LiDAR, critical airfield pavements, similar project \$7,010.100 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES Terminal Access Roadway Rehabilitation, Jacksonville International CONSTRUCTION (If Applicable) 2014 Airport (JAX), Duval County, Florida (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Jacksonville Aviation Authority. Technical Manager. Managed Mobile LiDAR field staff in collection of airport access roads. Reviewed ground control requirements, mission planning and preliminary data processing to validate accuracy and completeness. Managed processing team involved in extraction of planimetric features, DTM development and other project deliverables. Relevance: mobile LiDAR, Florida airport, survey control \$177,105 (Fee) \$870,445 (Const.); (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Tampa International Airport Restroom Improvements, Tampa, Florida Est. 2021 Est. 2021 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm c. Hillsborough County Aviation Authority. Technical Manager. Coordinated static scanning teams in completion of interior scanning of eight restrooms at Tampa International Airport. Performed scan registration to develop seamless point clouds of restrooms and chases for modeling purposes. Imported information into Recap for use by Revit modeling teams. Relevance: LiDAR, local airport \$985,829 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Runway 9-27 Rehabilitation, Space Coast Regional Airport (TIX), Est. 2021 Est. 2022 Titusville. Florida

Titusville-Cocoa Airport Authority. Mobile LiDAR Task Manager and Professional Surveyor responsible for management of Mobile LiDAR data collection and processing in support of topographic mapping of airfield surfaces. **Relevance: mobile LiDAR, airfield**

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

pavements, taxiway rehabilitation \$350,422 (Fee)

d.

[X] Check if project performed with current firm

		F KEY PERSONNEL PI			СТ			
12	NAME (C	Complete one Section E : 13. ROLE IN THIS CON		person.)	1/	VEADO	EXPERIENC	ŗ
		Cost Estimator	IIIAOI				b. WITH	
					a. TOTAL:	17	CURRENT FIRM	11
15. FIRM NAME AND LOCATION (City and State) Michael Baker International, Inc., Moon Township, PA Michael Baker								
	EDUCATION (DEGREE AND SPECIALIZATION)			ENT PROFESSIONAL F				
Pitt	S., Civil Engineering/Construction Managemer sburgh, 2004	•		tion Quality Manag	gement for	Contra	Ctors, 2012	
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publication Worked with Nathan estimating construction	-		\				
	Prepared cost estimates for at least 2 project			л.				
	Prepared cost estimates for multiple Florida	· · ·						
	Tropared cost commutes for manapie Florida	19. RELEVANT						
	(1) TITLE AND LOCATION (City and State)			DDOEE COLONIAL O	(2) YEAR CO			
	New General Aviation Center Project, Pur Punta Gorda, Florida	•	GD),	PROFESSIONAL S Est. 202		CONST	Est. 202	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND			[X] Check if project p				
a.	Charlotte County Airport Authority. Cost Esti	-		•			•	estone
a.	deliverables. Michael Baker is providing airfi	J		•			•	al.
	engineering, airfield electrical engineering, b							
	bidding-phase support for the construction o Airport to relocate the existing general aviati							iua
	pavement, airfield lighting, airfield phasir							
	(1) TITLE AND LOCATION (City and State)	ig, dramage improve	πιστισ. ψ	Ι,010,011 (1 00) ψ2	(2) YEAR C			
	Tampa International Airport Restroom Improvements, Tampa, Florida		PROFESSIONAL S Est. 202	1		FRUCTION (III Est. 202		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm							
b.	Hillsborough County Aviation Authority. Cost Estimator. Responsible for preparing cost estimates for all design milestone							
	deliverables. Michael Baker provided design-phase evaluations for two upgraded restrooms at the Tampa International Airport. For							
	airsides A and E, a complete demolition of the current restrooms preceded the implementation of a unique, modern design that							
	reflected the character and theme of each airside terminal. Relevance: local project, airport project, recent project. \$985,829 (Fee); Est Comp Date: 2021					00,029		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR CO			
	Runway Reconstruction, Northeast Ohio Regional Airport (HZY),		PROFESSIONAL S	SERVICES	CONST	TRUCTION (II	f Applicable)	
	Ashtabula County, Ohio		2019			2019		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		t ootimataa	[X] Check if project performed with current firm s for all design milestones. Michael Baker provided			dod	
c.	Ashtabula County Airport Authority. Cost Estimator. Prepared cost estimated design and engineering services for complete reconstruction and expansion							
	strength. Runway safety areas (RSA) were constructed 250 feet on both sides of the runway and out to 1,000 feet from each runway end; high intensity runway lights and LED PAPI's were installed; and drainage systems were relocated outside the RSAs.							
	Relevance: airfield pavement, in-place reconstruction, airfield lighting, airfield phasing, drainage improvements, recent							
project. \$2,026,653 (Fee) \$8,500,000 (Est. Const.)						•		
	(1) TITLE AND LOCATION (City and State)	nn Diddina and		PROFESSIONAL S	(2) YEAR CO		TRUCTION (II	f Applicable)
	Runway and Taxiway Rehabilitation Designation Services, Beaver County Air		- Colle	2014	DERVICES	CONST	2014	i Applicable)
	•	ipoit (DVI), Deavei i	alls,				_*	
d.	Pennsylvania (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project perfo			erformed wit	h current f	firm		
	Beaver County. Cost Estimator. Responsible for analyzing several approaches to runway repairs and preparing cost estimates for				ates for			
	all milestone deliverables. Relevance: airfield pavement, airfield lighting, airfield phasing, similar size project, alternative							
	costing. \$530,948 (Fee) \$4,055,103 (Est. Const.)					_		
	(1) TITLE AND LOCATION (City and State)	utona Pasah Interna	tional	PROFESSIONAL S	(2) YEAR CO		TRUCTION (II	f Applicable)
	Daytona Airport Terminal Renovation, Da Airport (DAB), Daytona Beach, Florida	iytona beach interna	uonai	Est. 202			Est. 202	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE		[X] Check if project p		l h current f		
U.	Volusia County. Cost Estimator. Responsible		stimates for					vided
	design services for the terminal and concour							
	recent project, Florida project. \$794,143							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE **Bruce McArthur, PE** b. WITH CURRENT Drainage Engineer a. TOTAL: 14 15. FIRM NAME AND LOCATION (City and State) LANDIS EVANS Landis, Evans & Partners, Inc. - Tampa, Florida 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Bachelor of Science in Civil Engineering – Water Resources Professional Engineer, Florida, 41119 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Extensive stormwater modeling experience within Pinellas County Familiar with County permitting staff and processes A recognized expert within the field of stormwater and hydrology, providing trial testimony as an expert witness as well as an instructor. 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Feather Sound Golf Course Renovation, Clearwater, Florida PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) 2021 – Stormwater (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm (yes) CD ICOT Properties. Stormwater design performed in support of a renovation of the existing golf course. Modeling consisted of updating the existing Roosevelt Creek watershed study to account for in-situ conditions and to verify that the proposed improvements would not result in adverse impacts to offsite properties. Relevancy: drainage design and modeling, Pinellas County stormwater permitting, SWFWMD permitting, Tampa Bay drainage outfall (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) TopGolf, Carillon Parkway at Fountain Parkway, St Petersburg, 2019 Not Determined (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm (yes) Transamerica Premier Life Insurance Company. Project consists of a large golf driving range with below grade targets. Mr. McArthur had prepared the original stormwater design for the Carillon project and was asked to provide Civil design based upon his extensive knowledge of the hydrology of the area. Civil design included stormwater modeling, roadway improvement, utilities and State and local permitting. Relevancy: drainage design and modeling. Pinellas County stormwater permitting. **SWFWMD** permitting (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Meres Crossing, Pinellas County and City of Tarpon Springs, Florida Ongoing (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm AG Armstrong. Developed a hydrodynamic watershed model for a 354-acre tributary of Whitcomb Bayou. Prepared a master stormwater management plan for a 28-acre commercial development, design stormwater management plan for Meres Blvd extension. Permitted through Pinellas County, City of Tarpon Springs, SWFWMD and FDOT, Relevancy: drainage design and modeling, Pinellas County stormwater permitting, SWFWMD permitting (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED **FGT Weedon Island Culvert Replacement, Pinellas County** PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) 2017 2017 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm (yes) d. Florida Gas Transmission Company. Designed the replacement of a failed culvert which was causing overtopping and environmental damage to the surrounding wetland system. Design included stormwater modeling to assure berm stability and conveyance of expected flows. Project included design, CEI, as well as permitting with Duke Energy and FDEP. Relevancy: drainage design and modeling, Pinellas County stormwater permitting, SWFWMD permitting, Tampa Bay drainage outfall (2) YEAR COMPLETED (1) TITLE AND LOCATION (City and State) PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) VM Hanger - Albert Whitted Airport, Pinellas County

Reginald Mesimer. Prepared and permitted a stormwater management system for a new hanger in Basin "O" of the Albert Whitted Airport. Relevancy: drainage design and modeling, Pinellas County stormwater permitting, SWFWMD permitting, Tampa

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Bay drainage outfall, local airport project

e.

STANDARD FORM 330 (REV. 8/2016) PAGE 15

2014

Check if project performed with current firm (yes)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE b. WITH Mark Morley, PE, RCDD Airfield Electrical Engineer a. TOTAL: 24 CURRENT 17 15. FIRM NAME AND LOCATION (City and State) OHMEGA The Ohmega Group, Inc. Jacksonville, FL 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, 59813 BS, Mathematics, Clark Atlanta University, 1993 BS, Electrical Engineering, GA Institute of Technology, 1996 Registered Communications Distribution Designer OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mark has worked with Nathan on at least four (4) projects in the last four (4) years. Member of: Illuminating Engineering Society of North America & The Institute of Electrical and Electronics Engineers YMCA Black Achiever's Award, 2003 First Coast Business Alliance Entrepreneur of the Year, 2006 Jacksonville Business Journal 40 Under 40 Award, 2007 (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Taxiway A Reconstruction - Lighting Replacement, Destin Executive PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) 2018 Est. 2022 Airport, Destin, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Senior Electrical Engineer. Responsible for the design of the Taxiway Lighting Replacement. Replacement lighting was necessary to support the addition of new medium-intensity LED airfield lighting fixtures to replace the existing incandescent lights. He was also responsible for attending site visits and providing estimates for Construction costs. Relevance: airfield lighting and signage, Florida airport, similar project, Michael Baker project. \$5,500,000 (Est. Construction) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) South Rehabilitation and Reconstruction Apron High Mast Lighting, 2018 Ongoing Tallahassee International Airport, Tallahassee, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Senior Electrical Engineer. Responsible for design services for the removal of two (2) high mast light poles in the south apron, installing new high mast lighting near the forestry hangar, and replacement of five (5) high mast lights around the south apron – for a total of seven (7) high mast light poles. The design included: photometric design, fixture selection, pole selection, lighting protection system design, foundation design, connection to existing power supply, and connection to existing lighting control system. Relevance: Michael Baker project, similar project, airfield lighting and signage, apron high-mast lighting \$1,030,000 (Fee) \$7,600,000 (Const) (1) TITLE AND LOCATION (City and State) PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) New Airport Beacon at Gainesville Regional Airport, Gainesville, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Senior Electrical Engineer. Responsible for providing electrical design services for electrical circuiting to beacon with site plan. details, and load calculations. Mr. Morley, serving as Senior Electrical Engineer, worked with Airport Staff to ensure all lelectrical specifications were in compliance with FAA Advisory Circulars and National Electric Code (NFPA 70). Relevance: NAVAID cabling, Florida airport \$100,000 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Taxiway A Extension at Brooksville-Tampa Bay Regional Airport, 2020 Ongoing Brooksville, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Senior Electrical Engineer/Project Manager. Responsible for providing design and bidding phase services for the construction of extending the existing Taxiway A between Taxiways A1 and B. The project scope of work included the airifleld lighting design and power distribution system. Relevance: airfield lighting and signage, local airport, similar project, Michael Baker project. \$183,856 (Fee) \$2,300,000 (Est. Const.) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Install PAPI's at Eastern West Virginia Regional Airport, Martinsburg, 2020 Ongoing (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Senior Electrical Engineer. Provided electrical engineering design services for the installation of one L-880 Precision Approach Path Indicators (PAPI) at Eastern West Virginia Regional Airport. The project consisted of the removal of one existing VASI and the installation of one PAPI on Runway 08. The design included the PAPI design and circuiting including preliminary drawings.

Relevance: NAVAID cabling. \$301,000 (Fee)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE b. WITH CURRENT **Donna Speidel** Pavement Marking Specialist a. TOTAL: 15 15. FIRM NAME AND LOCATION (City and State) SIGHTLINE -Sightline, Inc. Culpeper, VA 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) BS, Sociology, George Washington University 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Primary author of IPRF 01-G-002-05-1 Airfield Marking Handbook published in 2008 as part of a CRA with the FAA Recipient of Florida Airports Council (FAC) Corporate Eagle Award (2018) Developed PIE's airfield marking maintenance plan (June 2021) as a deliverable of condition assessment (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Airfield Marking Assessment, St. Pete-Clearwater International PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) 2021 Not Applicable Airport, Clearwater, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Pinellas County. Project Principal. As a member of Florida Airfield Maintenance, JV under the FDOT Statewide Airport Marking Program contract, responsible for analyzing the objective data collected during the assessment and developed the reporting/deliverables to assist future planning for the airport. Relevance: PIE project, PIE staff familiarity, airfield pavement marking \$19,000 (Fee) (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Assessment & Training, Palm Beach International Airport (PBI), Palm 2021 Not Applicable Beach, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Palm Beach County, Department of Airports. Project Principal. Responsible for developing PBI's airfield marking maintenance plan as a result of the condition assessment and subsequently led on-site personnel training. Relevance: airfield pavement marking, Florida airport \$50,000 (Fee) (2) YEAR COMPLETED (1) TITLE AND LOCATION (City and State) CONSTRUCTION (If Applicable) PROFESSIONAL SERVICES Tampa Assessment, Tampa International Airport (TPA), Tampa, FL 2021 Not Applicable (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm c. Hillsborough County. Project Principal. Responsible for leading TPA's annual retro-reflectivity assessment to evaluate current conditions and deliver objective data to the airport's marking asset management program. Relevance: airfield pavement marking, local airport \$22,500 (Fee) (2) YEAR COMPLETED Runway 5-23/18L-36R, Charlotte Douglas International Airport, PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Charlotte, NC (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Principal. Responsible for providing quality control services during the Airfield Marking Rehabilitation project to include calibration of all equipment and monitoring initial installation of the markings as well as testing reflectivity levels at the end of the project. Relevance: airfield pavement marking, quality control during construction \$32,000 (Fee) (2) YEAR COMPLETED Runway 17L-35R, Colorado Springs Municipal Airport, Colorado PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Springs, CO 2014 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm City of Colorado Springs. Senior Project Manager. Responsible for providing the prime firm with specification review and on-site

quality control services during the Runway 17L-35R airfield marking project to include calibration of all equipment and monitoring

of the installation of permanent markings. Relevance: airfield pavement marking, quality control during design and

construction \$30,000 (Fee)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE b. WITH CURRENT Jerry Comellas, Jr., PE Subsurface Utility Engineer 4 a. TOTAL: 15. FIRM NAME AND LOCATION (City and State) ECHO UES, Inc., Tampa, Florida UTILITY ENGINEERING & SURVEY 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) BSCE, Civil Engineering, University of South Florida Professional Engineering – Florida - #45838 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Jerry has worked with Nathan on at least six (6) projects in the last three (3) years. One of those projects is listed in this proposal. Florida Engineering Society (FES); American Society of Civil Engineers (ASCE) American Society of Highway Engineers (ASHE) American Council of Engineering Companies (ACEC) Society of Hispanic Professional Engineers (SHPE) 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Terminal Expansion, St. Pete-Clearwater International Airport (PIE), PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Est. 2022 Clearwater, Florida (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm a. Pinellas County. Project Manager. Responsible for providing SUE and Surveying services for specific areas located within the new construction limits of the PIE Terminal Improvement. Services provided under this contract included the locating of underground utilities, topographic survey, and High Frequency Concrete Scanning services for floor penetrations for plumbing purposes. Relevancy: PIE project, Michael Baker project, apron area, work against a building (1) TITLE AND LOCATION (City and State) PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) **Professional Continuing Engineering Services, St. Pete-Clearwater** 2021 Not Applicable International Airport (PIE), Clearwater, Florida (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm b. Pinellas County. SUE Project Manager. Responsible for QA/QC reviews of deliverables developed from the designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey services to map the horizontal and vertical position of underground utilities to support the engineer of record efforts associated with the final design and completion of final construction documents for this project. Relevancy: PIE project (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED North Remote Overnight Aircraft Parking Apron, Tampa International PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) 2021 Airport (TPA), Tampa, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Hillsborough County Aviation Authority. Project Manager. Responsible for SUE services that determined the location of existing underground utilities potentially in conflict with the proposed TPA North Apron design located north of the existing TPA terminal. Relevancy: local airport project, apron project (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) North Terminal, Tampa International Airport (TPA), Tampa, FL 2017 Not Applicable (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm d. Hillsborough County Aviation Authority. QA/QC. Responsible for QA/QC reviews of deliverables developed from the designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and supporting survey services to map the horizontal and vertical position of underground utilities to support the engineer of record efforts associated with the final design documents. Relevancy: local airport project (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If Applicable) Main Terminal Curbside Expansion, New Energy Plant & Related 2018 Est. 2023 Work, Tampa International Airport (TPA), Tampa, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Hillsborough County Aviation Authority. Project Manager. Responsible for QA/QC reviews of deliverables developed from the designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering and

supporting survey services to map the horizontal and vertical position of underground utilities to support the engineer of record efforts associated with the final design and completion of final construction documents for the design build team. **Relevancy: local**

airport project

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

13. ROLE IN THIS CONTRACT

Geotechnical Engineer & Pavement Specialist

a. TOTAL: 15+ b. WITH CURRENT

14. YEARS EXPERIENCE

/ITH RENT 1 RM

15. FIRM NAME AND LOCATION (City and State)
MC Squared, Inc., Tampa, FL

Mohammad Bazzaz, PhD, PE, CPM

12. NAME

MC²

16. EDUCATION (DEGREE AND SPECIALIZATION)

Ph.D. Civil Engineering, University of Kansas, Lawrence, KS M.S. Structural Engineering, University of Semnan, Semnan, Iran

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida, 87867

B.S. Civil Engineering, University of Semnan, Semnan, Iran

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

- Major contributor to the recently issued FAA airfield pavement design Advisory Circular.
- 15+ years' specialized experience in airfield pavement construction and associated construction materials testing
- Dr. Bazzaz has provided technical support of Airport Technology Research and Development (ATRD) Project at National Airport Pavement Test Facility (NAPTF) and National Airport Pavement and Materials Research Center (NAPMRC).
- Selected Peer-Reviewed Journal Paper: Bazzaz M., Darabi M. K., Little D. N. and Garg N., 2018," A Straightforward Procedure to Characterize Nonlinear Viscoelastic Response of Asphalt Concrete at High Temperatures", <u>Transportation Research Board 97th Annual Meeting</u> and publication in the <u>Transportation Research Record</u>, Washington, DC.
- Peer-Reviewed Journal Paper: **Bazzaz M.**, Darabi M. K., Little D. N., and Garg N., 2019, "Effect of Evotherm–M1 on properties of asphaltic materials used at NAPMRC testing facility", Journal of Testing and Evaluation, 48 (3).

19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	OMPLETED	
Construction Engineering and Materials Testing Research, University	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)	
of Kansas, Lawrence, KS	2018	Not Applicable	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

University of Kansas. Airfield Pavement Research Engineer. Analyzed the effects of next generation commercial aircraft on the performance and life expectancy of airfield pavements. Assisted in the development of robust models and computational techniques to analyze the performance of airfield pavements. The FAA has begun conducting several full-scale tests using the world's largest Heavy Vehicle Simulator (HVS). The aim of the HVS study is to investigate the capability of airfield pavements to withstand high tire pressures and to study the efficacy of using advanced materials to enhance the performance of airfield pavement structures. Relevancy: airfield pavement design and performance

(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	OMPLETED
Construction Engineering Inspection and Materials Testing Projects,	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If Applicable) Not Applicable
Test Cycle 2, Federal Aviation Administration, Atlantic City, NJ	2020	1 tot / tpp://dabio

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Federal Aviation Administration. Airfield Pavement Research Engineer. National Airport Pavement and Material Research Center (NAPMRC) Test Cycle 2 (TC2). Assisting in program research and contributing technical input. The current airfield pavement 10-year research program by the Federal Aviation Administration (FAA) acknowledges the absence of guidance on the use of newer material technologies and performance-oriented construction specifications. FAA's current material specifications do not allow the use of recycled materials to surface airfield pavements or warm mix asphalt (WMA). Performance of recycled materials can be improved by using modifiers. TC2 investigates the rutting and fatigue performances of three different warm mix asphalt technologies and the use of recycled material in the surface course. Relevancy: airfield pavement materials and performance

technologies and the use of recycled material in the surface course. Relevan	icy. ali lielu paveillelli illali	enais and periormance
(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	OMPLETED
Construction Engineering Inspection and Materials Testing Projects,	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Constr. Cycle 9, Federal Aviation Administration, Atlantic City, NJ	2020	Not Applicable

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Federal Aviation Administration. Airfield Pavement Research Engineer. NAPMRC Construction Cycle 9 (CC9). Assisting in program research and contributing technical input. CC9 consists of ten test items, most of them of a unique cross-section, built over a subgrade of California Bearing Ratio (CBR) 5 and constructed on the West end of the National Airport Pavement Test Facility (NAPTF). These pavement sections will be subject to a series of experiments including evaluation of the FAARFIELD fatigue model, P-209 performance vs. FAARFIELD layer sensitivity, geosynthetic performance in asphalt pavement, performance of cement-treated drainable base course. **Relevancy: FAARFIELD pavement design, airfield pavement materials**

(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	OMPLETED
Construction Engineering Inspection and Materials Testing Projects,	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
Pavement Life Extension, Federal Aviation Administration, Atlantic	2020	Not Applicable
City, NJ		

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Check if project performed with current firm

Federal Aviation Administration. Airfield Pavement Research Engineer. Explored the use of design periods longer than 20 years for certain airfield pavements. Evaluated redefining pavement failure to account for non-structural factors. Developed new models for the FAA's FAARFIELD pavement design software. Relevancy: FAARFIELD pavement design, airfield pavement materials

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE b. WITH CURRENT Sarah Brammell **Environmental Scientist** a. TOTAL: 20 3

15. FIRM NAME AND LOCATION (City and State) Blue Wing Environmental, LLC

BLUE

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

B.A. Biology, M.P.A Public Administration-Environmental Policy

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

- Over 10 years of experience working at PIE including conducting the Wildlife Hazard Assessment, developing the Wildlife Hazard Management Plan, National Environmental Policy Act (NEPA) documentation
- Qualified Airport Wildlife Biologist—Federal Aviation Administration (FAA)
- Authorized Gopher Tortoise Agent—Florida Fish and Wildlife Conservation Commission (FWC)
- Registered Agent FWC—Burrowing Owls
- National Highway Institute Introduction to NEPA and Transportation Decision-making

•	ACI-NA Certificate in Airport Environmental Management				
	19. RELEVANT PROJECTS				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Wildlife Hazard Management Program. St. Pete-Clearwater	PROFESSIONAL SERVICES 2016-2021	CONSTRUCTION (If Applicable) Not Applicable		
	International Airport (PIE), Clearwater, Florida		• • •		
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm				
	Pinellas County. Environmental Scientist/QAWB. Responsible for providing a				
	implementation of the airport's Wildlife Hazard Management Program. Resp				
	Wildlife Hazard Working Group Meeting. Relevance: PIE experience, PIE s	staff familiarity. \$6,500 (anr	nually)		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Wildlife Hazard Management Program. Southwest Florida	PROFESSIONAL SERVICES 2016-2021	CONSTRUCTION (If Applicable)		
	International Airport, Fort Myers, FL		Not Applicable		
b.		✓Check if project performed with c			
	Lee County Port Authority. Environmental Scientist/QAWB. Provided annual				
	Southwest Florida International Airport (RSW) Including a WHMP audit and t	raining, and training material	s. Relevance: Airport		
	wildlife hazards, mitigating for wildlife for drainage ponds. \$4,500 (annu	ally)			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Elite Jet Center Stormwater Design Review, St. Pete-Clearwater	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)		
	International Airport (PIE), Clearwater, Florida	2016-2018	Est. 2022		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm				
c.	Pinellas County. Project Manager/QAWB. Provided project management and	l QAWB wildlife hazard mana	agement service for a		
	stormwater design review for a proposed aviation development at PIE. Prepare	ared a technical memorandu	m that included a wildlife		
	strike analysis, review of continual monitoring data, and provided recommend	dations to reduce or eliminate	e potential wildlife hazard		
	attractants associated with the proposed project. Relevance: PIE experienc	e, PIE staff familiarity, wor	king with Michael Baker		
	\$3,500 (fee)				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	East Airfield Development Area Environmental Assessment (EA).	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)		
	Orlando International Airport, Orlando, FL	2008-2014	2016		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm				
d.	Greater Orlando Aviation Authority. Project Manager. Responsible for the Greater Orlando Aviation Authority (GOAA)				
	Environmental Assessment (EA) to develop over 1,000 acres of airport land for aviation and aviation support. Responsibilities also				
	included ongoing coordination with the FAA Orlando Airport District Office (ADO), FAA Headquarters legal counsel, other federal,				
	state, and local agencies as well as a proactive public involvement component. Relevance: airport environmental assessment,				
	wildlife surveys, wetland delineation. \$500,000 (fee)	•	·		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Wildlife Hazard Assessment and Wildlife Hazard Management Plan.	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)		
	Page Field General Aviation Airport, Fort Myers, FL	2016-2018	Not Applicable		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with c	urrent firm		
e.	Lee County Port Authority. FAA Qualified Airport Wildlife Biologist. Responsil	ble for the Page Field (FMY)	Wildlife Hazard		
	Assessment (WHA) and Wildlife Hazard management Plan (WHMP). Also di	eveloped a concise WHMP t	hat followed FAA		
	guidance and provided all necessary information to implement a successful v				
e.	Assessment (WHA) and Wildlife Hazard management Plan (WHMP). Also de	eveloped a concise WHMP t	urrent firm Wildlife Hazard hat followed FAA		
	Relevance: Airport wildlife hazards, mitigating for wildlife for drainage p		p. 2 g. a		

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

Michael Baker INTERNATIONAL EXAMPLE PROJECT
KEY NUMBER

21. TITLE AND LOCATION (City and State)

Taxiway A East Extension

Brooksville - Tampa Bay Regional Airport (BKV), Brooksville, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES Est. 2022

CONSTRUCTION (if Applicable) Est. 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Hernando County	Kevin Daugherty	352-754-4061

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

Nathan is managing this project.

The includes the construction of 1.600-ft of new (extended) Taxiway A at BKV to replace the existing Taxiway A1 including: Clearing and grubbing, concrete taxiway demolition, earthwork, drainage infrastructure adjustments, new asphalt taxiway, airfield lighting and signage, ALCMS modification, airfield phasing, SWFWMD permitting.

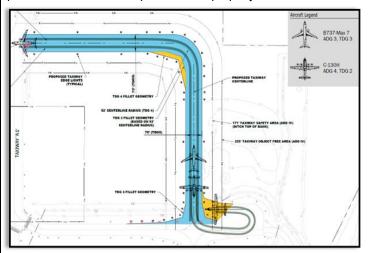
The project is a prerequisite for the future Runway 27 extension. Since the prior packaging of the project, taxiway lighting and signage was added to the project and the taxiway edge geometry revised to meet the current advisory circular. The profile of the taxiway was set to properly tie-in with future Northeast Corporate Center apron elevations. A geophysical survey was performed using ground penetrating radar to explore for sinkhole activity within the new taxiway footprint. Dynamic cone penetrometer tests were performed to properly estimate the in-situ subgrade CBR value

for the taxiway

pavement design.

Michael Baker's Role:

Michael Baker performed the airfield engineering and design. value engineering, cost estimating, and bidding phase services. We are also providing project management services, construction administration, agency and subconsultant coordination. We are managing subconsultants in the performance of site investigations, SWFWMD permitting, drainage modeling, and airfield electrical engineering. Deliverables have included: conceptual exhibits, plans, technical specifications, bid schedules, cost estimates, permit application, drainage calculations.



Project Costs: \$2,300,000 (Construction); \$183,856 (Fee)

Client Testimonial - June 2021, Kevin Daugherty, Airport Director BKV

"Michael Baker exceeded expectations on the Taxiway A Extension project. Nathan was always quick to respond to our requests. The design criteria were clearly established up front, the design was accelerated to under 3 months to meet an aggressive timeline and was completed under budget. This was achieved by using a combination of an as-built survey and a prior survey to avoid survey costs. Late in the design the airport requested the project be split into multiple bid alternates. Michael Baker reacted quickly and did not request additional compensation.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE Prime Michael Baker International, Inc. Tampa, FL (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE Michael Baker International, Inc. Jacksonville, FL Prime (2) FIRM LOCATION (City and State) (1) FIRM NAME (3) ROLE MC Squared, Inc. Tampa, FL Subconsultant (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE The Ohmega Group, LLC Jacksonville, FL Subconsultant

Project Relevance

Airfield phasing New taxiway pavement ADGs III & IV Connection to a primary taxiway Airfield lighting Drainage improvements SWFWMD permitting C-130 modeling

Value Added:

A stabilized subgrade was designed to reduce the overall cost of the pavement

A hybrid geometric design was done to maintain the 75-foot taxiway width while reducing the taxiway fillet pavement to TDG 3.

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

Michael Baker INTERNATIONAL EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION (City and State)

New General Aviation Center Punta Gorda Airport (PGD), Punta Gorda, Florida

22. YEAR COMPLETED PROFESSIONAL SERVICES

CONSTRUCTION (if Applicable) Est. 2021

Est. 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT TELEPHONE NUMBER Charlotte County Airport Authority Ron Ridenour 941-639-1101 ext. 129

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and

Nathan is managing the airfield portion of this project.

Project Description:

The project includes a new aircraft parking apron and associated taxilanes, new parallel Taxiway E, a new 13,000-square-foot General Aviation Center Building, and a new 10-bay aircraft storage hangar. Taxiway E is being re-aligned, widened, and extended and a new aircraft parking apron is being constructed to support the new GA Center. Project elements include: Clearing and grubbing, earthwork, new drainage infrastructure, underground utilities, new asphalt taxiways, new concrete and asphalt aprons, security fencing and gates, airfield lighting and signage, high-mast apron lighting, airfield phasing, and SWFWMD permitting.

Michael Baker's Role:

drainage calculations.

Michael Baker provided grant services, airfield engineering, airfield phasing, airfield electrical engineering, and bidding services. We are also providing project management services, construction administration, agency and subconsultant coordination. We are managing subconsultants in the performance of site investigations, local site permitting. SWFWMD permitting, drainage modeling, and airfield electrical engineering. Deliverables have included: conceptual exhibits, plans, technical specifications, bid schedules, front end specifications, cost estimates, permit applications,

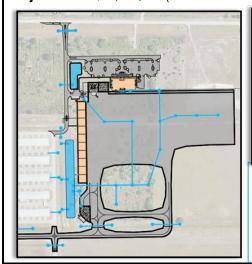
Project Relevance

Airfield phasing Asphalt taxiway pavement Concrete apron pavement High-mast apron lighting Airfield lighting **Drainage improvements** SWFWMD permitting Similar size airport Stakeholder coordination

Value Added:

The drainage infrastructure for this project was designed to handle future airfield development to the east to ensure the new taxiway culvert crossings would not require future replacement.

Project Costs: \$16,000,000 (Est. Construction); \$1,676,977 (Fee)







Client Testimonial – June 2021, Ron Ridenour, Airport Project Manager PGD "Michael Baker has done a great job managing their subconsultants and has provided excellent client service on the project. I am very pleased with how Nathan Parish, Mark Kistler, and Chip Hayward have responded to some very difficult questions by two (2) independent contractors working on the project."

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Michael Baker International, Inc.	Tampa, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.	Michael Baker International, Inc.	Jacksonville, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
C.	Michael Baker International, Inc.	Orlando, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	Echo UES, Inc.	Tampa, FL	Subconsultant

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

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21. TITLE AND LOCATION (City and State)

Taxiway A Reconstruction and Reconfiguration Destin Executive Airport (DTS), Destin, Florida

22. YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRU

2019

CONSTRUCTION (if Applicable)
Est. 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Okaloosa County	Chad Rogers	850-651-7160 x1055

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

Nathan managed this project.

The project includes the **in-place reconstruction of the asphalt, 5,000- by 40-foot Taxiway A** and the reconfiguration of the associated taxiway-to-runway connectors to reduce them from six to four. **Significant airfield phasing accommodations were designed to maintain the airport's only taxiway access** to the only runway. Project elements include: Clearing and grubbing, earthwork, new drainage infrastructure, new asphalt taxiways, airfield lighting and signage, airfield phasing, and WMD permitting.

Michael Baker's Role:

Michael Baker provided project management, subconsultant coordination, grant services, airfield engineering, airfield phasing, airfield electrical engineering, and bidding services. We managed

Project Relevance

Asphalt taxiway pavement In-place reconstruction Airfield phasing Stakeholder coordination Impact to a critical taxiway Drainage improvements Airfield lighting WMD Permitting Similar size project

subconsultants in the performance of site investigations and airfield electrical engineering. **Deliverables included: conceptual exhibits, plans, technical specifications, bid schedules, front end specifications, cost estimates, permit applications, drainage calculations.**

Project Costs: \$5,000,000 (Est. Construction); \$316,786 (Fee)

Value Added

Construction haul routes were identified as being unstable for the high volume of anticipated construction traffic. A innovate phasing approach was developed that implements asphalt millings to stabilize haul routes. The haul roads can remain as permanent roads for the airport after the project. This eliminated the need to purchase and haul in road materials: Estimated savings: \$100,000. There is an additional value of permanent airport service roads.

The existing pavement base course was identified for reuse in stabilizing the subgrade for the new pavement section. This eliminated the need to purchase and haul in stabilizing materials from offsite and reduced the layer thickness of overlying layers. Estimated savings: \$200,000.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE Michael Baker International, Inc. Prime Tampa, FL (2) FIRM LOCATION (City and State) (3) ROLE (1) FIRM NAME Michael Baker International, Inc. Jacksonville, FL Prime (2) FIRM LOCATION (City and State) (1) FIRM NAME (3) ROLE Subconsultant The Ohmega Group, LLC Jacksonville, FL

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (City and State)

Taxiways D1 and D2 Rehabilitation and Reconstruction Destin-Fort Walton Beach Airport (VPS), Valparaiso, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES 2019

CONSTRUCTION (if Applicable) 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Okaloosa County	Chad Rogers	850-651-7160 x1055

Nathan managed this project.

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

The project includes the **in-place rehabilitation** / **reconstruction of two 1,000- by 75-foot TDG-4 asphalt taxiways.** These taxiways are the only access to the commercial terminal apron at Destin-Fort Walton Beach Airport. The project included the reconstruction of Taxiway D1, the

at Destin-Fort Walton Beach Airport. The project included the reconstruction of Taxiway D1, the resurfacing of Taxiway D2, and resurfacing of the portion of service road that crosses both taxiways. The pavement structure of Taxiway D1 was evaluated and increased to satisfy future aircraft traffic. Project elements included: Earthwork, new drainage infrastructure, new asphalt taxiways, in-place taxiway reconstruction, airfield lighting and signage, airfield phasing, and WMD permitting.

Michael Baker's Role:

Michael Baker provided project management, subconsultant coordination, grant services, airfield engineering, airfield phasing, bidding services, construction administration services, and full-time resident inspection services. We managed subconsultants in the performance of site investigations and airfield electrical engineering. Deliverables included: conceptual exhibits, plans, technical specifications, bid schedules, front end specifications, cost estimates, permit applications, drainage calculations.

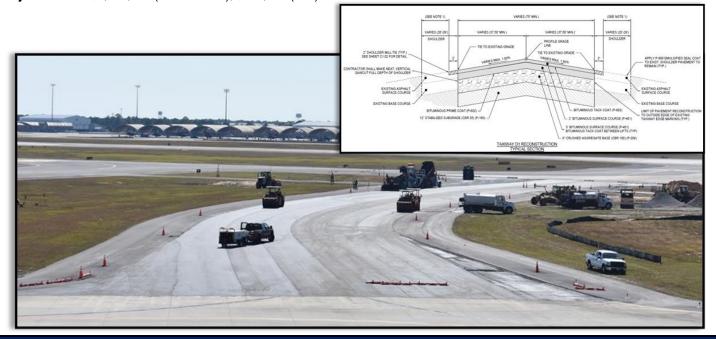
Project Relevance

Asphalt taxiway pavement In-place reconstruction TDG-4 taxiways Reuse of existing materials Airfield phasing Impact to critical taxiways Drainage improvements Airfield lighting WMD Permitting Similar size project Similar size airport

Value Added:

The design called for the reuse of existing millings (Recycled Asphalt Pavement) to stabilize the subgrade for the new pavement section on Taxiway D1.

Project Costs: \$1,550,000 (Construction); \$319,484 (Fee)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	
a.	Michael Baker International, Inc.	Tampa, FL	Prime	
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	
b.	Michael Baker International, Inc.	Jacksonville, FL	Prime	
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	
C.	The Ohmega Group, LLC	Jacksonville, FL	Subconsultant	

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION (City and State)

South Apron Rehabilitation and Reconstruction
Tallahassee International Airport (TLH), Tallahassee, Florida

22. YEAR COMPLETED
PROFESSIONAL SERVICES CONSTRUCT
2019

CONSTRUCTION (if Applicable) 2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Tallahassee, Florida	Heather Nelson	850-891-7868

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Nathan was the airfield engineer on this project.

Project Description:

The project included the **in-place reconstruction and rehabilitation of a 44,000 square-yard asphalt and concrete apron.** New concrete was constructed on the western portion and the remaining western portion was resurfaced. The asphalt in the eastern portion was reconstructed in-place. **Stakeholder coordination was required and phasing to displace aircraft parking positions.** The eroded infield area south of the helicopter pads was regraded and stabilized with turf reinforcement mat and staked sod. Project elements included: Earthwork, drainage modeling, in-place apron reconstruction, helicopter pads, turf reinforcement matting, airfield lighting and signage, high-mast apron lighting, airfield phasing, and WMD permitting.

Michael Baker Role:

Michael Baker provided project management, subconsultant coordination, grant services, airfield engineering, airfield phasing, bidding, and construction administration services. We managed

Project Relevance

Airfield engineering
Airfield phasing
Stakeholder coordination
Helicopter rotor wash
Asphalt taxiway pavement
Concrete apron pavement
High-mast apron lighting
Airfield lighting
Drainage modeling
WMD permitting
Similar size project
Similar size airport

subconsultants in the performance of site investigations, airfield electrical engineering, and full-time resident inspection services. Deliverables included: conceptual exhibits, plans, technical specifications, bid schedules, front end specifications, cost estimates, permit applications, and drainage calculations.

Project Costs: \$7,576,317 (Construction); \$1,029,975 (Fee)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT (2) FIRM LOCATION (City and State) (3) ROLE (1) FIRM NAME Michael Baker International, Inc. Tampa, FL Prime (2) FIRM LOCATION (City and State) (1) FIRM NAME (3) ROLE Michael Baker International, Inc. Jacksonville, FL Prime (2) FIRM LOCATION (City and State) (1) FIRM NAME (3) ROLE Michael Baker International, Inc. Orlando, FL Prime (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE The Ohmega Group, LLC Jacksonville, FL Subconsultant

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

6

21. TITLE AND LOCATION (City and State)

ATL Ramp 19 and TW A3 Replacement Hartsfield-Jackson Atlanta, International Airport (ATL), Atlanta, Georgia 22. YEAR COMPLETED

PROFESSIONAL SERVICES
Est. 2022

CONSTRUCTION (if Applicable)
Est. 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Aviation Infrastructure Solutions	Norma Click	404-382-1304

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

Nathan worked on this project.

The project includes the **replacement of 100,000 square-yards of concrete aircraft apron** and a connecting taxilane. The project involves complicated phasing in a very active ramp and taxilane area. The largest carrier operating at the airport uses this ramp and taxilane to conduct maintenance operations on Group IV and V aircraft. The stormwater detention issue was solved by designing and installing a new 99,000-cubic-foot underground detention facility under part of a future aircraft parking space. This system was integrated into the existing downstream stormwater system and the new system associated with the replaced ramp.

Project design elements include: Earthwork, drainage infrastructure, airfield pavement, airfield lighting and signage, high-mast apron lighting, airfield phasing, and drainage permitting.

Michael Baker's Role:

Michael Baker is providing project management, subconsultant coordination, airfield engineering, airfield phasing, bidding services, and construction administration services. We are managing subconsultants in the performance of site investigations and airfield electrical engineering. Deliverables have included: conceptual exhibits, plans, technical specifications, front end specifications, cost estimates, permit applications, drainage calculations.

Client Testimonial

"Michael Baker has a long history here, and they make a point of partnering. They listen, they're responsive, they're respectful, they have a good understanding of what the airport wants. That's what sets them apart."

- Norma Click, Director Hartsfield-Jackson Atlanta International Airport

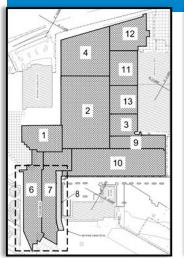
Project Costs: \$310,532 (Fee)

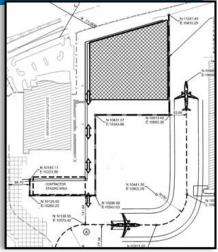
Project Relevance

Airfield engineering
Airfield phasing
Stakeholder coordination
Displacement of ramp parking
Critical airfield pavement
TDG-4 aircraft
In-place concrete replacement
Taxiway pavement
Concrete apron pavement
High-mast apron lighting
Airfield lighting
Drainage modeling
Drainage permitting

Value Added:

To address the stringent requirements of the airport to keep the ramp area and hangars open, the project was divided into 14 unique phases to allow for the continuous movement of aircraft past the construction areas as well as parking of aircraft on available ramp space in each phase. Michael Baker worked closely with the owner and stakeholders during design to make sure every aspect of the ramp operations was accounted for and each aircraft was accommodated.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Michael Baker International, Inc.	Norcross, GA	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.	Michael Baker International, Inc.	Tampa, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
C.	Michael Baker International, Inc.	Jacksonville, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	Michael Baker International, Inc.	Linthicum, MD	Prime

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

Michael Baker INTERNATIONAL EXAMPLE PROJECTION KEY NUMBER

21. TITLE AND LOCATION (City and State)

North Airfield Improvements

Cleveland Hopkins International Airport (CLE), Cleveland, Ohio

22. YEAR COMPLETED

PROFESSIONAL SERVICES Est. 2022

CONSTRUCTION (if Applicable) Est. 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Cleveland Department of Port Control	Michael Ibos	216-898-5228

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

Nathan worked on this project.

The project includes the **in-place reconstruction of north airfield taxiways** at CLE between Runway 6L-24R, Taxiway Sierra, Taxiway Kilo, and the commercial apron along Taxiway Juliet. The project also includes the reconstruction and expansion of the taxiway and apron pavement to meet the current ADG and TDG for the airport. The FAA-compliant drainage design included several drainage infrastructure improvements including new RCP up to 120-inches in diameter. Project design elements include: Earthwork, airfield pavements, airfield lighting and signage, and airfield phasing.

Michael Baker's Role:

Michael Baker is providing project management, subconsultant coordination, airfield engineering, airfield phasing, bidding services, and construction administration services. We managed subconsultants in the performance of site investigations and airfield electrical engineering. Deliverables have included: conceptual exhibits, plans, technical specifications, front end specifications, cost estimates, engineer's report, permit applications, drainage calculations.

Project Costs: \$7,010,100 (Fee)

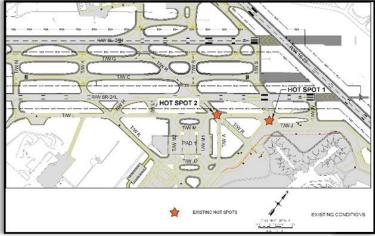
Project Relevance

Airfield engineering Airfield phasing Stakeholder coordination Critical airfield pavement In-place concrete replacement Taxiway pavement Concrete apron pavement High-mast apron lighting Airfield lighting Drainage modeling Drainage permitting

Value Added:

Where necessary, temporary taxiway centerlines were placed to safely route traffic around the construction area. To maximize work areas, and in coordination with airlines, NOTAMS were issued limiting the wingspan of aircraft through pinch points.

Accurate cost estimates were provided by coordinating with local suppliers and scrutinizing material costs. This was done to avoid repeating the procurement process as delaying the project schedule was not an option.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Michael Baker International, Inc.	Tampa, FL	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.	Michael Baker International, Inc.	Norcross, GA	Prime
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
C.	Michael Baker International, Inc.	Ridgeland, MS	Prime

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

Michael Baker INTERNATIONAL EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION (City and State)

Thurgood Marshall Airport (BWI), Baltimore, Maryland

Concourse B Apron Reconstruction, Baltimore/Washington International,

PROFESSIONAL SERVICES 2020

CONSTRUCTION (if Applicable) 2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
MDOT Maryland Aviation Administration	Alex Ollerman	410-859-7090

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

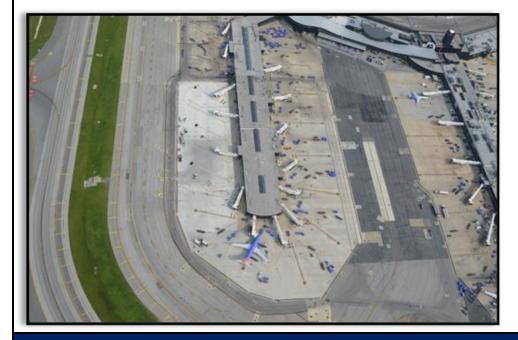
Project Description:

The project included the demolition and reconstruction of 28.000 square-vards of Concourse B Apron Pavement at BWI which included in-place concrete apron reconstruction at 10 aircraft parking gates on Concourse B at BWI Marshall Airport. Partnering sessions were held regularly with MDOT, MAA, designers, contractor, and all stakeholders to ensure a high-quality construction project that minimized impacts to airfield operations. Project design elements included: earthwork, airfield pavement, and airfield phasing.

Michael Baker's Role:

Michael Baker provided comprehensive engineering services including project management, airfield engineering, pre-design services, design and preparation of construction documents, construction administration and preparation of record documents. We managed subconsultants in the performance of site investigations. Deliverables included: conceptual exhibits, plans, technical specifications, front end specifications, cost estimates, and engineer's report.

Project Costs: \$8,646,760 (Construction); \$383,659 (Fee)



Project Relevance

22. YEAR COMPLETED

Airfield engineering Airfield phasing Stakeholder coordination Critical airfield pavement In-place concrete replacement Concrete apron pavement High-mast apron lighting Airfield lighting Similar project size

Value Added:

The tenant, Southwest Airlines, the largest carrier operating at the airport. set forth the stipulation that no more than two gates could be closed at any one time, so a complicated phasing logistics were designed to maintain aircraft operations in a very active area of the terminal building.

The team beat the original construction schedule, came in under budget, and maintained a safe work environment.

(1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE Michael Baker International, Inc. Linthicum, MD Prime

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION (City and State)

Deicing Pad and Taxiway P Pavement Rehabilitation, Baltimore/Washington International, Thurgood Marshall Airport (BWI), Baltimore, Maryland 22. YEAR COMPLETED
PROFESSIONAL SERVICES CONSTRUCT
2015

CONSTRUCTION (if Applicable) 2014

23. PROJECT OWNER'S INFORMATION

 a. PROJECT OWNER 	2	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Maryland Aviation	n Administration	Alex Ollerman	410-859-7090

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

The existing deicing apron pavement consisted of bituminous asphalt. The scope of work involved in-place replacement of existing asphalt with concrete, construction of a concrete hardstand area for the proposed new aircraft parking locations, and establishment of hold-pad capability for aircraft departing from Runway 15R and a remain-overnight (RON) pad for aircraft parking. The five aircraft parking positions were reconfigured to four positions to meet FAA standards. All affected glycol collection infrastructure was removed, including trench drains, manholes, inlets, diversion vaults, and associated lift station pining, and now drainage infrastructure was installed to expedit o drains.

Project Relevance
Airfield engineering
Airfield phasing
Stakeholder coordination
In-place concrete replacement
Concrete apron pavement
Asphalt taxiway pavement
Airfield lighting

associated lift-station piping, and new drainage infrastructure was installed to expedite drainage collection and effluent glycol disposal. **Asphalt Taxiway P was reconstructed in-place** from Taxiway H to the end of Runway 15R.

Michael Baker's Role:

Michael Baker provided inclusive design services including project management, airfield engineering, pre-design services, design and preparation of construction documents, construction administration and preparation of record documents. Michael Baker's tasks included developing aircraft layouts that meet the new deicing pad layout criteria and evaluating the impacts of the proposed new deicing pad glycol collection infrastructure on the overall glycol pumping and storage system. Plan preparation required close collaboration with the client, FAA, air traffic control tower personnel, airline tenants, and other stakeholders. We managed subconsultants in the performance of site investigations and airfield electrical engineering. Deliverables included: conceptual exhibits, plans, technical specifications, front end specifications, cost estimates, engineering calculations, and engineer's report.

Project Costs: \$20,000,000 (Est. Construction); \$1,265,679 (Fee)



Client Testimonial

"MDOT MAA has been very pleased with the services provided by Michael Baker International and their staff lead by Tracy Hollida. The company offers top-notch quality and service and has been a leader on our airfield and landside civil programs. Michael Baker, in our experience with them, has proven they understand the needs of airports, and have the ability to provide not only efficient and quality designs, but also have the ability to react quickly and provide large airfield designs in record time in order to help MDOT MAA secure Federal funding. I would not hesitate to recommend Michael Baker as technical experts in airfield and landside design. They are highly professional, experienced, dependable and most of all – responsive."

—Paul Shank, MDOT, Maryland Aviation Administration

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME (2) FIRM LOCATION (City and State) (3) ROLE Linthicum, MD Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified.

Complete one Section F for each project.)

Michael Baker

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION (City and State)

Midfield Taxilane Rehabilitation, Baltimore/Washington International, Thurgood Marshall Airport (BWI), Baltimore, Maryland

PROFESSIONAL SERVICES 2020

CONSTRUCTION (if Applicable) 2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Maryland Aviation Administration	Alex Ollerman	410-859-7090

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Project Description:

The project included **the rehabilitation of an asphalt taxilane** and **the extension of new taxilane** to the end of Runway 10. Rehabilitation was accomplished milling and a variable depth overlay. The project also included the **construction a of a new asphalt connector taxiway to Runway 10 and new LED edge lights and signs.** Milling depth was varied from a scratch mill up to 6 inches to meet the grades of the new apron. The project included 42,000 tons of asphalt. The project also included a new concrete taxiway connector to the Runway 10 end. This included **13,500 square yards of new concrete pavement** and associated edge lighting and signage systems. Project design elements included: earthwork, airfield pavement, airfield lighting and signage, airfield phasing, and pavement marking.

Michael Baker's Role:

Michael Baker provided project management, airfield engineering, design and preparation of construction documents, construction administration, preparation of record documents, and construction management services. **Michael Baker analyzed the impacts of the increased traffic on the existing pavements.** Rehabilitation alternatives were developed and the client selected a hybrid approach where existing pavements would be rehabilitated for a short-term solution, while the new pavements were constructed using the FAA standard 20-year design life. Our effort included the management of subconsultants in the performance of site investigations and airfield electrical engineering. **Deliverables included: conceptual exhibits, plans, technical specifications, front end specifications, cost estimates, engineering calculations, and engineer's report.**

Project Costs: \$542,559 (Fee)

TOTAL STATE OF THE STATE OF THE

Project Relevance

22. YEAR COMPLETED

Airfield engineering
Airfield phasing
Stakeholder coordination
Taxilane rehabilitation
New asphalt taxiway pavement
Airfield concrete pavement
Airfield lighting and signage
Similar project size

Value Added:

The adjacent construction of a new cargo building and apron required raising the profile for nearly half of the taxilane. Though the change in elevation may have warranted full depth reconstruction, Michael Baker proposed the use of an asphalt overlay to expedite construction which was also more cost-effective. This facilitated the aggressive schedule to open the associated cargo building on time.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME
Michael Baker International, Inc.

(2) FIRM LOCATION (City and State) Linthicum. MD

(3) ROLE Prime

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS														
	26. NAMES OF KEY PERSONNEL (From Section E,	27. ROLE IN THIS CONTRACT (From Section E,			28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)								ore	
A1 41	Block 12)		ck 13)		1	2	3	4	5	6	7	8	9	10
	n Parish, PE, CCM	Project Manager			X	X	X	X	X	X	X			
	Schilling, PE	Airfield Engineer			X		X	X		X	X			
Mark	Kistler, PE	Principal in Charge)			X		X	X	X	X			
Mike 7	Thompson	Airport Planner &P	roject C	oordinator						X	X			
Tracy	Hollida, PE	Quality Control En	gineer							X	X	X	X	X
Quinti	n Watkins, PE	Airfield Pavement	Speciali	st						X	X			
Shawı	n Sentelle	Airfield Designer			X	X	X	X	X	X	X			
Kevin	Sigg, PE	Airfield Phasing Er	gineer			X				X	X			
Paul S	Snead, PE	Drainage Engineer	•			X				X	X			
Sunil	Khatri, PE	Airfield Electrical E	ngineer							X	X		X	X
Steph	en Clancy, PLS, PSM, GISP	Surveyor and Mobi	ile LiDA	R Specialist							X			
Jeff W	/eiss, CQM-C	Cost Estimator				X								
Bruce	McArthur, PE (Landis)	Drainage Engineer	•											
Mark I	Morely, PE, RCDD (Ohmega)	Airfield Electrical E	ectrical Engineer				X	X	X					
Donna	a Speidel (Sightline)	Pavement Marking	ent Marking Specialist											
Jerry	Comellas, Jr., PE (ECHO)	Subsurface Utility I	Enginee	r		X								
Mohai	mmad Bazzaz, PhD, PE, CPM (MC2)	Geotechnical Engil Specialist	neer & F	Pavement	X					X				
Sarah	Brammell (Blue Wing)	Environmental Scient	entist											
		29. EXAMPLI	E PROJE	CTS KEY										
NO.	TITLE OF EXAMPLE PROJECT (FRO	OM SECTION F)	NO.	TITLE							SEC	TION	F)	
1	Taxiway A East Extension Brooksville - Tampa Bay Regional Airp	oort (BKV)	6	ATL Ramp 1 Hartsfield-Ja							rport	(ATL)	
2	New General Aviation Center Punta Gorda Airport (PGD)		7		ld Improvements Hopkins International Airport (CLE)									
3	Taxiway A Reconstruction and Reconfiguration Destin Executive Airport (DTS)			Concourse B Apron Reconstruction Baltimore/Washington International, Thurgood Marshall Airport (BWI)										
4	Taxiways D1 and D2 Rehabilitation and Reconstruction Destin-Fort Walton Beach Airport (VPS)			Deicing Pad and Taxiway P Pavement Rehabilitation Baltimore/Washington International, Thurgood Marshall Airport (BWI)										
5	South Apron Rehabilitation and Recon Tallahassee International Airport (TLH		10	Midfield Tax Baltimore/W Airport (BW	ashin'				nal, T	hurgo	ood N	/larsh	all	

H. ADDITIONAL INFORMATION

REVIEW OF THE EVALUATION CRITERIA

PIE has trusted Michael Baker as a general engineering and architectural consultant for the last 15 years, including 20 projects. Over that time, we have demonstrated our ability to deliver quality projects on-time and within PIE's budget. Michael Baker has served over 340 airports over the last 80 years, including 45 airports in Florida. We have completed over 3,000 airport projects in the last 10 years, including 126 runway, 124 taxiway, and 80 apron projects. Our long history of repeat on-call contracts with airports like PIE, BKV, TLH, JAA, BWI, and ATL proves our ability to excel and has



allowed us to continuously improve our project delivery process, focused on client service. The below addresses our Team's ability to meet each of the evaluation criteria and deliver a successful, high-quality project for PIE.

WILLINGNESS AND ABILITY TO MEET SCHEDULE AND BUDGET BASED ON CURRENT AND PROJECTED WORKLOAD

We are committed to PIE. Michael Baker values its ongoing relationship with PIE and will do whatever it takes to maintain and improve that relationship. We are eager to prove ourselves on this airfield engineering project and have committed the staff to do so. Michael Baker is a great airfield engineering firm and we will prove that to you on this project.

OUR TEAM'S UNIQUE ABILITY

The team we have committed has the right balance of PIE familiarity and diverse airport experience. As shown earlier, Nathan, Tom, Mark, and Mike are very familiar with PIE. Their experience covers a large part of the PIE airfield, and that experience is very similar to this project. However, working only at PIE is not ideal for PIE. We are also proposing a strong supporting cast that bring diverse, large-hub airport experience on projects that are very similar to this one. Finally, as the Project Manager, we are confident that Nathan will bring exceptional engineering and project management skills, and unmatched energy, responsiveness, and client service to this project.

PROJECT UNDERSTANDING AND APPROACH

Nathan has engaged nearly everyone listed on our Team for this project to discuss the approach. We have spent significant time researching the key issues and project design elements to acquire an in-depth understanding of this project and to prepare a detailed and comprehensive project approach. Our approach is presented in Tab 6 – Additional Information.

AVAILABILITY

We don't just say we're available. Our internal processes have allowed us to estimate each team members availability for this contract. Based on our experience, we know how much commitment is needed from each of our team members to deliver on this project. We have committed each team member to be available.

SIMILARITY OF PROJECT EXPERIENCE

All ten (10) sample projects we have included are aircraft aprons or taxiway projects, five (5) are both combined. Nathan has worked on seven (7) of the projects listed, serving as project manager and engineer of record on four (4) of them and lead airfield engineer on one (1). Seven (7) of the projects involve in-place pavement reconstruction. Seven (7) of the projects involve new taxiway construction. Six (6) of the projects involve apron construction. All the projects involve airfield phasing, seven (7) of which are on operationally critical airfield pavements.

MINORITY BUSINESS AND PINELLAS COUNTY SBE STATUS

Michael Baker is committed to including and mentoring DBE firms on all our airport projects. We have partnered with 5 MBE/WBE/DBE firms on this project, and 4 firms that are SBE registered with Pinellas County. More information is provided on this below.

LOCATION

Michael Baker's Tampa Office is only 14 miles and 19 minutes from PIE. Nathan, Mark, and Mike are located in Tampa along with eight (8) other aviation specialists. Nathan and Mike have demonstrated their willingness and ability to visit PIE often, making several trips to PIE in the last two months. Many of these visits and meetings are listed in the approach section – Tab 6 – Additional Information.

H. ADDITIONAL INFORMATION

PERFORMANCE HISTORY

Michael Baker has an excellent recent performance history with projects of similar size and scope. We complete engineering services within the timeframes agreed to and do our part to deliver construction costs within budget. This is accomplished by:

- Understanding the scope of engineering services
- Understanding the nature of construction and constructability
- Allocating the appropriate number and type of professional resources
- Having a comprehensive understanding of the Owner's goals
- Leveraging construction contingency cost experience for preliminary estimates
- Increasing the detail of cost estimates as design progresses
- Implementing creative bid alternates
- Making design adjustments based on budget

- Value Engineering
- Providing technically accurate and complete construction documents
- Communicating with contractors for cost estimates
- Providing correct and complete cost estimates
- Providing responsive construction administration
- Closely inspecting and monitoring construction activities to prevent rework
- Communicating with the Owner frequently regarding cost and schedule implications
- Creating a team atmosphere with the Contractor, Engineer and Owner

Budget and Schedule Performance History								
Airport	Project	Design I	Duration	Construction Cost				
Airport	Project	Budget	Actual	Budget	Actual			
St. Pete-Clearwater International Airport	Ticketing A Baggage Handling System	360	331	\$9.9Million	\$9.7 Million			
St. Pete-Clearwater International Airport	Gates 7-10	270	270	\$7.7 Million	\$6.9 Million			
Cecil Field, Jacksonville Aviation Authority	Runway 9R-27L Rehabilitation	210	203	\$5.8 Million	\$5.5 Million			
Sarasota-Bradenton International Airport	Taxiways B and D	180	180	\$1.3 Million	\$940,000			
Sarasota-Bradenton International Airport	Taxiway G	120	110	\$1.1 Million	\$1.0 Million			
Mobile Downtown Airport	Security Upgrades and Fencing	150	148	\$2.1 Million	\$2.0 Million			
Mobile Downtown Airport	Partial Parallel Taxiway A - Phase 1	180	174	\$14.9 Million	\$14.7 Million			
Mobile Downtown Airport	Partial Parallel Taxiway A - Phase 2	180	180	\$14.4 Million	\$14.3 Million			
Dekalb Peachtree Airport	Pavement Reconstruction	230	229	\$2.9 Million	\$2.9 Million			
Dekalb Peachtree Airport	Taxiway A & J Reconstruction	60	59	\$817,000	\$773,000			
Athens-Ben Epps Airport	Taxiway A and Runway 27 Extension	435	435	\$13.8 Million	\$13.4 Million			
Cleveland Hopkins International Airport	North Airfield Improvements - Bid Package 1	210	210	\$25.6 Million	\$23.9 Million			
Cleveland Hopkins International Airport	North Airfield Improvements - Bid Package 2	180	180	\$22.8 Million	\$18.8 Million			

RECOMMENDATION LETTERS

28000 A-1 Airport Road Punta Gorda, Florida 33982 www.flyPGD.com



(941) 639-1101 (941)639-4792 Fax airport@flyPGD.com

June 11, 2021

To Whom it May Concern,

Michael Baker International is providing engineering and architectural services and construction services for a new General Aviation Center (GAC) at Punta Gorda Airport (PGD). The project is multidisciplinary and involves several subconsultants and includes new airfield pavements and landside infrastructure to support the facility. Michael Baker has done a great job managing their subconsultants and has provided excellent client service on the project. I am very pleased with how Nathan Parish, Mark Kistler, and Chip Hayward have responded to some very difficult questions by two (2) independent contractors working on the project.

- <u>Close Coordination with the Owner</u> I am always informed on their approach and proposed responses.
- Responses They never ask "What do you want to do?" Rather, they offer suggestions and recommendations. They actually provide professional engineering services.
- Responsiveness Always on time. I frequently see e-mails at nights and weekends. Cannot get more responsive than that.
- <u>Documentation</u> Even though it takes time, they formally document all their responses. It is nice to have the written backup.

Michael Baker has consistently provided exceptional service since I have started working with them and they have quickly responded to the many challenges we have had on the project. They have also delivered quality design products in a timely manner.

If you need any additional information or have any questions regarding this recommendation, please don't hesitate to email me at rridenour@flypgd.com or call me directly at (941) 639-1101 ext. 129.

Sincerely,

Ron D. Ridenour Jr.

Project Manager

Charlotte County Aviation Authority



To Whom it May Concern:

Michael Baker International has served Hernando County for over 20 years as an on-call professional engineering services consultant at the Brooksville-Tampa Bay Regional Airport (BKV). Hernando County has been pleased with the services provided by Michael Baker International and their staff lead by Phil Jufko.

The company offers top-notch quality service and has been a leader on our airfield and landside planning, design, construction, and environmental programs for many years. Michael Baker has proven they understand the needs of complex airports and have the ability to provide not only efficient and quality plans and designs, but also the ability to react quickly and provide large airfield designs in record time in order to help Hernando County and BKV secure Federal and State funding.

I would not hesitate to recommend Michael Baker as technical experts in airfield and landside planning and design, construction, and environmental services. They are highly professional, experienced, dependable and most of all – responsive.

Sincerely,

Kevin Daugherty, A.A.E. Airport Manager



Larry Hogan Governor Boyd K. Rutherford Lt. Governor Gregory Slater Secretary Ricky D. Smith, Sr. Executive Director

March 31, 2020

To Whom it May Concern:

Michael Baker International has worked with MDOT Maryland Aviation Administration, Baltimore/Washington International Thurgood Marshall and Martin State Airports for over 25 years as an on-call professional design services consultant. MDOT MAA has been very pleased with the services provided by Michael Baker International and their staff lead by Tracy Hollida. The company offers top-notch quality and service and has been a leader on our airfield and landside civil programs. Michael Baker, in our experience with them, has proven they understand the needs of airports, and have the ability to provide not only efficient and quality designs, but also have the ability to react quickly and provide large airfield designs in record time in order to help MDOT MAA secure Federal funding.

I would not hesitate to recommend Michael Baker as technical experts in airfield and landside design. They are highly professional, experienced, dependable and most of all – responsive.

Sincerely.

Paul L. Shank Paul L. Shank, P.E., C.M.

Chief Engineer

Division of Planning and Engineering

H. ADDITIONAL INFORMATION

COMMITMENT TO DBE

Michael Baker has contracted with disadvantaged businesses continuously since 1985 and has made a corporate commitment to mentor DBE firms and provide them with opportunities to excel. We align ourselves with Pinellas County's desire to provide DBE and SBE firms with meaningful opportunities. The table below includes a small sampling of our previous DBE participation.

Project Name	State of Service	M/W/DBE Goal	% Attained	Goal Exceeded
Sarasota Bradenton International Airport - Jet Blast Deflector Extension	Florida	5%	22.5%	17.5%
Cecil Airport – Hangar 915 and Blast Fence	Florida	15%	33.21%	18.21%
Hillsborough County Aviation Authority – GA Airport Master Plan	Florida	11.6%	27.65%	16.06%
Cecil Airport – MRO Hangar 935	Florida	15%	33.64%	18.64%
Columbus Airport – Runway 6/24 Rehabilitation and Overlay	Georgia	10%	16%	6%
DeKalb Peachtree Airport – Runway 2R/20L Pavement Rehab	Georgia	10%	19%	9%
Huntsville International Airport – Master Plan Update	Alabama	11.91%	11.91%	Goal Met

Michael Baker maintains a directory of disadvantaged business entities by discipline and geographic location. We have teamed with nearly all of the DBE firms proposed for this project and they have all provided exceptional service with us in the past.



We have also added a new SBE firm to our team. As part of our commitment to DBE participation, Nathan contacted the Pinellas County Engineering Department and requested a list of firms that are well-qualified to perform local drainage permitting services. A list of firms was provided, and Nathan searched the Pinellas County SBE database to select one of those firms (Landis Evans) to join our team for this project.

We achieve the DBE and W/MBE goals with a well-established, proven process that includes:

- Continually monitoring DBE listings for new DBE partners,
- Continually updating and strengthening our efforts to engage diverse business firms,
- Mentoring DBE firms,
- Helping to develop their staff and overall business through meaningful roles on projects,

https://pinellascounty.sbecompliance.com/

- Developing long-lasting partnerships, helping our DBE consultants expand its market share and contribute to the local economy.
- Providing seamless continuity achieved through effective collaboration,
- Monitoring the status of DBE goals as projects progress, and
- Delivering high quality services to our clients to enable us to provide additional opportunities to our DBE partners.

I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
31. SIGNATURE	32. DATE
Mark E. Free	6/28/2021
33. NAME AND TITLE	

Mark Kistler, PE, Vice President - Aviation Practice Lead

SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

DART II _ CENERAL OLIALIEICATIONS

	(If a firm has branch		mplete for e		cific branch office seeking	g work.)			
2a. FIRM (OR BRANCH OFFICE) NAME Michael Baker International, Inc. (formerly Michael Baker Jr., Inc.) (CAGE CODE 68S68)					3. YEAR ESTABLISHED	· , · · · · · · · · · · · · · · · · · ·	TITY IDENTIFIER		
2b. STREET						WNERSHIP			
4211 W	est Boy Scout Boulevard, Suite 5	500			a. TYPE				
2c. CITY Tampa			2d. STATE FL	2e. ZIP CO	7 7	Limited Liability Company			
таттра				00007	b. SMALL BUSINESS STA	TUS			
	F CONTACT NAME AND TITLE	<u> </u>			INO				
Robert	M. Pitchford, P.S.M., Office Exec	utive			7. NAME OF FIRM (If Block	,			
6h TELEDUC	ONE NUMBER	6c E MAII	L ADDRESS		Michael Baker Inte	rnational, LLC			
813-466		-	chford@mba	kerintl.com	n				
						T			
	8a. FORMER FIRM NA	ME(S) (If any))			8b. YEAR ESTABLISHED 8c. UNIQUE ENTITY IDENTIFIER			
	ker Jr., Inc.				2010	026048708			
The LPA G	roup Incorporated				1986	058814021			
	9. EMPLOYEES BY DISCIP	INE			10. PROFILE OF FIRM'	S EXPERIENCE			
	9. LIVIPLOTEES BT DISCIP	LIINE		AN	D ANNUAL AVERAGE REVE	NUE FOR LAST 5	YEARS		
a. Function Code	b. Discipline	c. Number (1) FIRM	of Employees (2) BRANCH	a. Profile Code	b. Experience Index Nur		c. Revenue Index Number (see below)		
02	Administrative	658	6	A05	Airports; Navaids; Airport Lighting; Fueling 2				
06	Architect	43	1	A06	Airports; Terminals; & Hangars	Freight Handling	4		
10	Civil Engineer	177	1	DOO	Dridges	_	2		

Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	b. Experience	Index Number (see below)
02	Administrative	658	6	A05	Airports; Navaids; Airport Lighting; Fueling	2
06	Architect	43	1	A06	Airports; Terminals; & Hangars; Freight Handling	4
12	Civil Engineer	477	4	B02	Bridges	2
16	Construction Manager	117	1	E09	EIS, Assessments or Statements	2
57	Structural Engineer	149	3	G04	GIS: Development, Analysis, & Data Collection	1
	Designer/CADD Technician	194	6	H07	Highways; Streets; Airfield Paving; Parking Lots	3
	Engineering Technician	524	3	P06	Planning (Site, Installation and Project)	4
	Environmental Scientist/Specialist	109	2	R03	Railroad and Rapid Transit	1
	Planner	189	3	T03	Traffic & Transportation Engineering	4
				W02	Water Resources; Hydrology; Ground Water	1
	Other Employees	1100	0			
	Total	3560	29			
		1				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

1. Less than \$100,000

6. \$2 million to less than \$5 million

2. \$100,000 to less than \$250,000

a. Federal Work 0 6 b. Non-Federal Work

3. \$250,000 to less than \$500,000

7. \$5 million to less than \$10 million

c. Total Work 6 4. \$500,000 to less than \$1 million

8. \$10 million to less than \$25 million

5. \$1 million to less than \$2 million

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

9. \$25 million to less than \$50 million

10. \$50 million or greater

12. AUTHORIZED REPRESENTATIV	Έ
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The foregoing is a statement of facts.

b.	DATE

SIGNATURE

Robert M. Pitchford, P.S.M., Office Executive

7/1/2020

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)								
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER			
Michael Baker International, Inc.(formerly M	/lichael Ba	ker Jr., Inc.) (CA	GE CODE 75VZ1)	2015	041548537			
OL OTREET								
2b. STREET	10				WNERSHIP			
12740 Gran Bay Parkway West, Suite 211	10			a. TYPE				
2c. CITY		2d. STATE	2e. ZIP CODE	Limited Liability Con	npany			
Jacksonville		FL	32258					
GUGIGGITVIIIG			02200	b. SMALL BUSINESS STAT	US			
6a. POINT OF CONTACT NAME AND TITLE				No				
Brian C. Russell, P.E., Office Executive				7. NAME OF FIRM (If Block 2	•			
AL TELEPHONE MUMBER				Michael Baker Interi	Michael Baker International, LLC			
6b. TELEPHONE NUMBER	-	IL ADDRESS						
904-380-2507	brus	sell@mbaker	intl.com					
8a. FORMER FIRM NAM	ME(S) (If any	/)		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER			
Michael Baker Jr., Inc.	(-) ()	//		2010	041548537			
The LPA Group Incorporated			2010 139245570					
The Li A Group incorporated			2010	1002-10070				

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. Number (1) FIRM	of Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number (see below)		
02	Administrative	658	8	A05	Airports; Navaids; Airport Lighting; Fueling	1		
06	Architect	43	2	A06	Airports; Terminals; & Hangars; Freight Handling	4		
12	Civil Engineer	477	6	C15	Construction Management	3		
15	Construction Inspector	291	3	C18	Cost Estimating; Cost Engineering and Analysis	1		
48	Project Manager	65	1	E03	Electrical Studies and Design	1		
53	Scheduler	3	1	E09	EIS, Assessments or Statements	1		
	Architectural Technician	22	1	F03	Fire Protection	1		
	Designer/CADD Technician	194	4	G01	Garages; Vehicle Maint Facilities; Parking Decks	2		
	Engineering Technician	524	2	H07	Highways; Streets; Airfield Paving; Parking Lots	3		
	Planner	189	3	105	Interior Design; Space Planning	1		
				L03	Landscape Architecture	1		
				001	Office Building; Industrial Parks	3		
				P05	Planning (Community Regional Areawide State)	1		
				P06	Planning (Site, Installation and Project)	1		
				P07	Plumbing & Pipe Design	2		
				R03	Railroad and Rapid Transit	3		
				R06	Rehabilitation (Buildings; Structures; Facilities)	1		
				S10	Surveying Platting Mapping Flood Plain Studies	2		
				S13	Stormwater Handling & Facilities	2		
				T03	Traffic & Transportation Engineering	3		
	Other Employees	1094	0	U02	Urban Renewals; Community Development	1		
	Total	3560	31	W02	Water Resources; Hydrology; Ground Water	1		

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

2. \$100,000 3. \$250,000 4. \$500,000

 a. Federal Work
 2

 b. Non-Federal Work
 6

 c. Total Work
 6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000

2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000

\$250,000 to less than \$500,000
 \$500,000 to less than \$1 million
 \$1 million to less than \$2 million

6. \$2 million to less than \$5 million

7. \$5 million to less than \$10 million

8. \$10 million to less than \$25 million

9. \$25 million to less than \$50 million

10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts

	3 3		
а.	SIGNATURE	b.	DATE
	S-Hell		7/1/2020

c. NAME AND TITLE

Brian C. Russell, P.E., Office Executive

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

	,			- GENERAL Implete for e	,		A TIONS branch office seeking	work)	
2a. FIRM (OR BRANCH OFFICE) NAME Michael Baker International, Inc. (formerly Michael Baker Jr., Inc.) (CAGE CODE 7BS52)						3. YEAR ESTABLISHED 2015		TITY IDENTIFIER	
2b. STREET		A 0 11 4050						NNERSHIP	
	uth Orange	Avenue, Suite 1050			_		a. TYPE Limited Liability Com	nnanv	
2c. CITY Orlando	1			2d. STATE FL	2e. ZIP CO 32801		•		
				' -	02001		b. SMALL BUSINESS STAT	US	
		NAME AND TITLE rd, P.S.M., Office Exect	utive				7. NAME OF FIRM (If Block 26 Michael Baker Intern	,	
6b. TELEPHO		₹	-	L ADDRESS			WICHAEL DAKEL IIILEH	iational, LLC	
813-466	6-6018		Mark.Pit	chford@mba	kerintl.com	1			
		8a. FORMER FIRM NA	ME(S) (If any)			8b. YEAR ESTABLISHED		TITY IDENTIFIER
Michael Ba							2010 1999	824927987	
The LPA G	roup incor	porated					1999	058814021	
	9. E	EMPLOYEES BY DISCIPL	INE		ANI	D AN	10. PROFILE OF FIRM'S INUAL AVERAGE REVENI		YEARS
a. Function Code		b. Discipline	c. Number (1) FIRM	of Employees (2) BRANCH	a. Profile Code		b. Experience		c. Revenue Index Number (see below)
02	Administra	tive	658	1	B02	Bric	lges	1	
12	Civil Engin	eer	477	3	H07	Hig	hways; Streets; Airfield Pavin	g; Parking Lots	3
29	GIS Specia	alist	132	1	T03	Tra	ffic & Transportation Engineer	ring	2
60	Transporta	tion Engineer	149	1	W02	Wa	ter Resources; Hydrology; Ground Water		1
	Designer/C	CADD Technician	194	1					
	Engineerin	g Technician	524	2					
	Planner		189	1					
-									
-	Other Employees 1237 0								
		Total	3560	10					
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)			PROFESSIONAL S 1. Less than \$100,000 2. \$100,000 to less than \$250,000			AL S	ERVICES REVENUE INDEX N 6. \$2 million to le 7. \$5 million to le		
a. Federal Wo	rk	0		0,000 to less that	,		* -	ess than \$25 millio	
b. Non-Federa		3	-	0,000 to less than	•		•	ess than \$50 millio	n
c. Total Work		3	5. \$1 million to less than \$2 million				10. \$50 million or g	greater	
C. TOTAL WORK 5									

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

a.	SIGNATURE	b.	DATE
			7/1/2020

c. NAME AND TITLE

Robert M. Pitchford, P.S.M., Office Executive

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

PART II - GENERAL QUALIFICATIONS

		offices, co	omplete for e	each spe	cific	branch office seeking		
2a. FIRM (OF Michael	R BRANCH OFFICE) NAME I Baker International, Inc. (formerly	3. YEAR ESTABLISHED 4. UNIQUE ENTITY IDENTIFIE 808585780						
2b. STREET			WNERSHIP					
	chnology Parkway, Suite 150					a. TYPE Limited Liability Com	nany	
2c. CITY	•		2d. STATE	2e. ZIP C0 3009		Limited Liability Con	ірапу	
Norcros	38		GA	3009	2	b. SMALL BUSINESS STAT	US	
6a. POINT O	F CONTACT NAME AND TITLE					No		
Quintin	B. Watkins, P.E., Office Executiv	е				7. NAME OF FIRM (If Block 2	,	
6b. TELEPHO	ONE NUMBER	6c. E-MA	L ADDRESS			Michael Baker Interr	iational, LLC	
678-966	6-6620	quintin.\	vatkins@mba	kerintl.co	n			
	8a. FORMER FIRM NA	ME(S) (If any	·)			8b. YEAR ESTABLISHED	8c. UNIQUE ENT	TITY IDENTIFIER
	ker Jr., Inc.	(-/ ()	/			2010	933755043	
The LPA G	roup Incorporated					1993	058814021	
				i		10. PROFILE OF FIRM'S	EVDEDIENCE	
	9. EMPLOYEES BY DISCIPI	INE		AN	ID AN	INUAL AVERAGE REVEN		YEARS
a. Function Code	b. Discipline	c. Number (1) FIRM	of Employees (2) BRANCH	a. Profile Code		b. Experience		c. Revenue Index Number (see below)
02	Administrative	658	11	A06	Airp	ports; Terminals; & Hangars; Freight Handling		6
12	Civil Engineer	477	9	B02	Brio	dges		6
15	Construction Inspector	291	5	C15	Cor	nstruction Management		4
16	Construction Manager	117	5	H07		hways; Streets; Airfield Paving; Parking Lots		5
18 48	Cost Engineer/Estimator	30 65	2	T03	l ra	ffic & Transportation Engineer	ring	7
48 57	Project Manager Structural Engineer	149	4					
60	Transportation Engineer	149	11					
	Engineering Technician	524	12					
	Environmental Scientist/Specialist	109	2					
	Planner	189	2					
			1		-			
					-			
					 			
	Other Employees	802	0					
	Total	3560	64					
SEF	NUAL AVERAGE PROFESSIONAL RVICES REVENUES OF FIRM FOR LAST 3 YEARS venue index number shown at right)	1. Les	F s than \$100,000	PROFESSION	NAL S	ERVICES REVENUE INDEX N 6. \$2 million to le		

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

2. \$100,000 to less than \$250,000

3. \$250,000 to less than \$500,000

4. \$500,000 to less than \$1 million

5. \$1 million to less than \$2 million

a.	SIGNATURE	b.	DATE
	Unt Bwant		7/1/2020
	NAME AND TITLE		

c. NAME AND TITLE

a. Federal Work

c. Total Work

b. Non-Federal Work

0

8

8

7. \$5 million to less than \$10 million

8. \$10 million to less than \$25 million

9. \$25 million to less than \$50 million

10. \$50 million or greater

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)								
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER			
Michael Baker International, Inc. (formerly I	Michael Ba	aker Jr., Inc.) (C	AGE CODE 698X1)	2015	017864339			
2b. STREET				5. OWNERSHIP				
310 New Pointe Drive				a. TYPE				
O- CITY		O-L CTATE	0- 7ID 00DE	Limited Liability Con	npany			
2c. CITY		2d. STATE	2e. ZIP CODE	_				
Ridgeland		MS	39157	b. SMALL BUSINESS STATUS				
				No				
6a. POINT OF CONTACT NAME AND TITLE								
William R. Balentine, P.E., P.L.S., Office B	Executive			7. NAME OF FIRM (If Block 2a is a Branch Office) Michael Baker International, LLC				
6b. TELEPHONE NUMBER	6c. E-MA	IL ADDRESS						
601-607-8712	Ray.Bal	lentine@mbal	kerintl.com					
8a. FORMER FIRM NAM	ΛΕ(S) (If any	/)		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER			
Michael Baker Jr., Inc.	1945	033338286						
				I				

	9. EMPLOYEES BY DISCIP	LINE	10. PROFILE OF FIRM'S EXPERIENCE					
					AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. Number (1) FIRM	c. Number of Employees (1) FIRM (2) BRANCH		b. Experience	c. Revenue Index Number (see below)		
02	Administrative	658	11	B02	Bridges	5		
12	Civil Engineer	477	7	C15	Construction Management	6		
15	Construction Inspector	291	6	C16	Construction Surveying	1		
16	Construction Manager	117	1	G04	GIS: Development, Analysis, & Data Collection	3		
28	Geodetic Surveyor	7	1	H07	Highways; Streets; Airfield Paving; Parking Lots	4		
29	GIS Specialist	132	3	P06	Planning (Site, Installation and Project)	2		
38	Land Surveyor	31	3	R03	Railroad and Rapid Transit	1		
48	Project Manager	65	2	T03	Traffic & Transportation Engineering	4		
58	Technician/Analyst	74	1	W02	Water Resources; Hydrology; Ground Water	1		
60	Transportation Engineer	149	3					
	Designer/CADD Technician	194	5					
	Engineering Technician	524	4					
	Survey Technician	56	4					
	Other Employees	785	0					
	Total	3560	51					

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

1. Less than \$100,000

6. \$2 million to less than \$5 million

a. Federal Work

2. \$100,000 to less than \$250,000

b. Non-Federal Work c. Total Work

3. \$250,000 to less than \$500,000

7. \$5 million to less than \$10 million

4. \$500,000 to less than \$1 million

8. \$10 million to less than \$25 million

5. \$1 million to less than \$2 million

9. \$25 million to less than \$50 million

10. \$50 million or greater

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

b.	DATE
	7/1/2020

William R. Balentine, P.E., P.L.S., Office Executive

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)								
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER			
Michael Baker International, Inc.(formerly N	/lichael Ba	ker Jr., Inc.) (CA	AGE CODE 3X3S0)	2015	037868606			
2b. STREET					WNERSHIP			
1306 Concourse Drive, Suite 500				a. TYPE				
2c. CITY		2d. STATE	2e. ZIP CODE	Limited Liability Con	npany			
Linthicum		MD	21090	b. SMALL BUSINESS STATUS				
6a. POINT OF CONTACT NAME AND TITLE				No	No			
Victor J. Siaurusaitis, Office Executive				7. NAME OF FIRM (If Block 2a is a Branch Office) Michael Baker International, LLC				
6b. TELEPHONE NUMBER	-	IL ADDRESS						
410-689-3455	vsia	urusaitis@mb	oakerintl.com					
8a. FORMER FIRM NAM	ΛΕ(S) (If any	()		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER			
Michael Baker Jr., Inc.				1997	037868606			
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE				

	9. EMPLOYEES BY DISCIPI	LINE		10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. Number of Employees (1) FIRM (2) BRANCH		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
02	Administrative	658	8	A05	Airports; Navaids; Airport Lighting; Fueling	6	
06	Architect	43	2	A06	Airports; Terminals; & Hangars; Freight Handling	5	
12	Civil Engineer	477	6	B02	Bridges	1	
15	Construction Inspector	291	21	C15	Construction Management	6	
16	Construction Manager	117	8	E09	EIS, Assessments or Statements	1	
21	Electrical Engineer	17	1	G04	GIS: Development, Analysis, & Data Collection	1	
23	Environmental Engineer	9	1	105	Interior Design; Space Planning	2	
29	GIS Specialist	132	1	P05	Planning (Community Regional Areawide State)	4	
42	Mechanical Engineer	19	1	S05	Soils & Geologic Studies; Foundations	2	
58	Technician/Analyst	74	2	T03	Traffic & Transportation Engineering	1	
60	Transportation Engineer	149	1	W03	Water Supply; Treatment and Distribution	5	
62	Water Resources Engineer	38	1		Transportation Planning	2	
	Architectural Technician	22	1				
	Bridge Inspector	33	1				
	Designer/CADD Technician	194	7				
	Engineering Technician	524	12				
	Environmental Scientist/Specialist	109	3				
	Planner	189	7				
	Other Employees	465	0				
	Total	3560	84				
			•				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

1. Less than \$100,000

6. \$2 million to less than \$5 million

a. Federal Work 1
b. Non-Federal Work 8
c. Total Work 8

2. \$100,000 to less than \$250,000

7. \$5 million to less than \$10 million

3. \$250,000 to less than \$500,000

8. \$10 million to less than \$25 million

4. \$500,000 to less than \$1 million

9. \$25 million to less than \$50 million

5. \$1 million to less than \$2 million

10. \$50 million or greater

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

b.	DATE
	7/1/2020

c NAME AND TITLE

Victor J. Siaurusaitis, Office Executive

1. SOLICITATION NUMBER (If any) NO. 21-0546-NC (SS) **ARCHITECT – ENGINEER QUALIFICATIONS PART II - GENERAL QUALIFICATIONS** (If a firm has branch offices, complete for each specific branch office seeking work.) 2a. FIRM (OR BRANCH OFFICE) NAME YEAR ESTABLISHED 4. **DUNS NUMBER** Blue Wing Environmental, LLC 2018 081555481 5. OWNERSHIP 2b. STREET 19607 Lake Osceola Lane Limited Liability Corporation 2c. CITY 2d. STATE 2e. ZIP CODE 33556 Odessa FL SMALL BUSINESS STATUS DBE, WBE, SBE 6a. POINT OF CONTACT NAME AND TITLE Sarah Brammell, President 7. NAME OF FIRM (If block 2a is a branch office) 6b. TELEPHONE NUMBER 6c. E-MAIL ADDRESS 813-404-3963 sbrammell@bluewingenv.com 8a. FORMER FIRM NAME(S) (If any) 8b. YR. ESTABLISHED 8c. DUNS NUMBER n/a 10. PROFILE OF FIRM'S EXPERIENCE AND 9. EMPLOYEES BY DISCIPLINE ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS c. No. of Employees a. Profile a. Function b. Discipline b. Experience Index Number (2) BRANCH Code (1) FIRM Code (see below) 24 **Environmental Scientist** E09 20 years of experience 11. ANNUAL AVERAGE PROFESSIONAL SERVICES PROFESSIONAL SERVICES REVENUE INDEX NUMBER REVENUES OF FIRM FOR LAST 3 YEARS 1. Less than \$100,000 6. \$2 million to less than \$5 million (Insert revenue index number shown at right) 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million a. Federal Work 1 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million b. Non-Federal Work 1 4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million c. Total Work 5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts

c. NAME AND TITLE

a. SIGNATURE

Sarah Brammell, President

arah B. Brammell

B. DATE

06/08/21

1. SOLICITATION NUMBER (If any) 21-0546-NC (SS)

7. NAME OF FIRM (If block 2a is a branch office)

PART II – GENERAL QUALIFICATIONS

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

 2a. FIRM (OR BRANCH OFFICE) NAME
 3. YEAR ESTABLISHED
 4. DUNS NUMBER

ECHO UES, Inc. 2017 08-6424206

2b. STREET 5. OWNERSHIP

4803 George Rd., Suite 350

2c. CITY 2d. STATE 2e. ZIP CODE S Corp / Privately Owned

Tampa FL 33634 b. SMALL BUSINESS STATUS

6a. POINT OF CONTACT NAME AND TITLE PINEILAS SBE, FDOT SBE, DBE, FL MBE

Jeraldo Comellas, Jr., PE / President

6b. TELEPHONE NUMBER 6c. E-MAIL ADDRESS

727-423-2518 jerry.comellas@echoues.com

8a. FORMER FIRM NAME(S) (If any) 8b. YR. ESTABLISHED 8c. DUNS NUMBER

	9. EMPLOYEES BY DISCIPLINE	10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS				
a. Function	b. Discipline	c. No. of Employees		Profile Code	b. Experience	c. Revenue Index
Code		(1) FIRM	(2) BRANCH		·	Number (see below)
02	Administrative	5	3	L02	Land Surveying	6
12	Civil Engineers	3	1	T02	Utilities	6
38	Land Surveyors	7	5			
48	Construction Experts/Mgrs/Eng.	1	1			
08	CADD Technicians	6	2			
Other	Field Mgrs & Field Technicians	41	24			
Other	Utility Coordinator	1	0			
Other	Marketing Coordinator	1	1			
	·				·	

Total 65 37

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

a. Federal Work 6
b. Non-Federal Work 6
c. Total Work 7

PROFESSIONAL SERVICES REVENUE INDEX

- 1. Less than \$100,000
- 2. \$100,000 to less than

\$250,000 3. \$250,000 to

- less than \$500,000
- 4. \$500,000 to less than \$1 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

Sulla Careland.

06/14/2021

b. DATE

c. NAME AND TITLE

SIGNATURE

Jeraldo Comellas, Jr., PE | President

1. SOLICITATION NUMBER (If any)
No. 21-0546-NC (SS)

PART II – GENERAL QUALIFICATIONS

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

(in a little had brained emoces, complete for each opcome brained ecoking work.)							
2a. FIRM (OR BRANCH OFFICE) NAME Landis Evans + Partners, Inc.	3. YEAR ESTABLISHED 1980	4. DUNS NUMBER 106487192					
2b. STREET	5. OWNERSHIP						
3810 Northdale Blvd Suite 100				a. TYPE			
2c. CITY		2e. ZIP CODE	Corporation				
Tampa	FL	33624	b. SMALL BUSINESS STATUS				
6a. POINT OF CONTACT NAME AND TITLE				Yes			
Bruce W. Landis, P.E., AICP, Vice Pre	sident, Principa	al		7. NAME OF FIRM (If block 2a is a branch office)			
6b. TELEPHONE NUMBER 813-949-7449	6c. E-MAIL ADDRE Landis@landi		m	N/A			
8a. FORMER FIR	8b. YR. ESTABLISHED	8C. DUNS NUMBER					
Sprinkle Co	1980	106487192					
0 EMPLOYEES BY DISCI		10. PROF	ILE OF FIRM'S EXPER	IENCE AND			

9. EMPLOYEES BY DISCIPLINE			ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function	ion b. Discipline c. No. of Employees		a. Profile	b. Experience	c. Revenue Index Number	
Code	B. Bissipinie	(1) FIRM	(2) BRANCH	Code	b. Experience	(see below)
02	Administrative	3		B02	Bridges	1
08	CADD Technician	1		C10	Commercial Building (low rise: Shopping Centers	4
12	Civil Engineer	7	3	C15	Construction Management	1
14	IT Specialist / Computer Programmer	1		C18	Cost Estimating: Cost Engineering & Analysis	1
47	Planner: Urban / Regional	4		E09	Environmental Impact Studies, Assessments or Statements	1
57	Structural Engineer	0		G06	Graphic Design	1
60	Transportation Engineer	3	1	H07	Highways: Streets; Airfield Paving; Parking Lots	3
				106	Irrigation; Drainage	3
				P05	Planning (Community, Regional, Areawide and State)	3
				P06	Planning (Site, Installation, and Project)	3
				S11	Sustainable Design	1
				S13	Stormwater Handling and Facilities	2
				U02	Urban Renewals, Community Development	1
				W02	Water Resources; Hydrology; Ground Water	4
				Z01	Zoning, Land Use Studies	1
	Other Employees					
	Total	19	4			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

right)	
a. Federal Work	2
b. Non-Federal Work	5
c. Total Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million

February 10, 2021

10. \$50 million or greater

12. AUTHORIZED	REPRESENTATIVE
----------------	----------------

The foregoing is a statement of facts.

a. SIGNATURE		b. DATE
	110-	

c. NAME AND TITLE

Bruce W. Landis, P.E., AICP, President

1. SOLICITATION NUMBER (If any)

No. 21-0546-NC (SS)

A process of the pr					QUALIF			(ina work)	
MC Squared, Inc 2001 90-0033880 20 20 20 20 20 20 20	2a. FIRM (or		ces, com	olete loi e	acii spec	JIIIC DI AI	3. YEAR ESTABLIS	HED 4. UNIQUE	ENTITY IDENTIFIER
25 STATE 26 JP CODE 25 STATE 26 JP CODE 27 STATE 28 JP CODE 28 JP CODE 28 JP CODE 29 JP COD	•	*							
22. STATE 26. STATE 26. ZIP CODE Incorporated SALE BUSINESS STATUS SBL SB									
Tampa	5808 Br	eckenridge Pkwy							
SBE Thomas Ali, P.E., COO 80 TELEPHONE NUMBER B13.623.3399 Sa. FORMER FIRM NAME(S) (If any) Sa. FORMER FIRM NAME Sa. Former Experience Sa. FORMER FIRM NAME(S) (If any) Sa. FORMER FIRM NAME(S) (If any) Sa. FORMER FIRM NAME Sa. Former Experience Sa. FORMER FIRM NAME(S) (If any) Sa. FORMER FIRM NAME AND TILE SB. FORMER FIRM NAME Sa. Former Experience Comments of Sa. Former	2c. CITY			2d. STA	ΓE 2e. ZIP C	ODE	Incorporate	ed	
## Thomas Ali, P.E., COO ## TELEPHONE NUMBER Go: E-MAIL ADDRESS ## 13.623.3399 Sa. FORMER FIRM NAME(S) (if any) ## 10. PROFILE OF FIRM'S EXPERIENCE ## N/A N/A N/A				FL	3361	0		S STATUS	
Thomas Ali, P.E., COO Extra Set Telephone Number Set Teleph	6a. POINT O	F CONTACT NAME AND TITLE					_		
State							7. NAME OF FIRM (If Block 2a is a Bra	nch Office)
State	<u>Thom</u>	as Ali, P.E., COO					MOG	1 т	
Sa. FORMER FIRM NAME(S) (If any)							MC Square	d, Inc.	
N/A	813.023				s.com	101 1/54	D = 0 = 1 D 10 1 = D		
Seminormoord Semi		8a. FORMER FIRM N	NAME(S) (If a	any)		8b. YEA	R ESTABLISHED	8c. UNIQUE EN	TITY IDENTIFIER
Seminormoord Semi		27/4					7/1	N/A	
S. Function S. Discipline C. Number of Employees Code C. Number of Employees Code C. Revenue Index Number (See below)		N/A				1	N/A	14/11	
A. Function Code D. Discipline C. Number of Employees D. Function D. Discipline C. Number of Employees D. Experience C. Revenue Index Number (see below) See below) See below D. Experience C. Revenue Index Number (see below) D. Experience C. Revenue Index Number (see below) D. Experience D. Experience C. Revenue Index Number (see below) D. Experience D. Exp		9 EMPLOYEES BY DISCIPLE	INF						
Discipline Code C		3. EIVII EOTEEO DI DIOGII EI				ANNUAL A	AVERAGE REVE	NUE FOR LAS	
Color		b. Discipline					b. Experience		
CADD Technician 2			(1) FIRM	(2) BRANCH					
15 Construction Inspector/Lab Tech 44 38 D04 Design Build 4			7	4					3
24 Environmental Scientist 1				20				<u>gs</u>	1
27 Foundation/Geotechnical Eng. 17 3 E09 Environmental Impact Studies 1			1	38				_	
30 Geologist 3 2 G01 Garage, Vehicle Maint. Facilities 1			17	3					<u>Z</u>
15 7 H07 Highways 5		Geologist				Garage	Millemai Impa Vehicle Maii	nt Facilities	1
H11 Housing 1 P04 Pipelines 4 S04 Sewage Collection 4 S05 Soils and Geologic Studies 4 S13 Storm Water Handling 2 T02 Testing and Inspection 5 W03 Water Treatment 6 W03 Water Treatment 6								iit. I aciiitics	5
P04 Pipelines 4	40	Geo. 1 Toject Wallagers	13	/					1
S04 Sewage Collection 4									4
S05 Soils and Geologic Studies 4						Sewage	e Collection		4
S13 Storm Water Handling 2 T02 Testing and Inspection 5 W03 Water Treatment 6 Other Employees 11 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) a. Federal Work 1 b. Non-Federal Work 7 c. Total Work 8 PROFESSIONAL SERVICES REVENUE INDEX NUMBER 1. Less than \$100,000 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						Soils a	nd Geologic St	tudies	4
Other Employees Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) a. Federal Work 1 b. Non-Federal Work 7 c. Total Work 8 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. W03 Water Treatment 6 W03 Water Treatment 6 PROFESSIONAL SERVICES REVENUE INDEX NUMBER 6. \$2 million to less than \$5 million foless than \$5 million foless than \$10 million foless than \$250,000 foles than \$250,000 foless than \$250,000 foles than \$250,000 foles than \$250,000 foless than					S13	Storm	Water Handli	ng	2
Other Employees Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) a. Federal Work 1 b. Non-Federal Work 7 c. Total Work 8 Total 100 54 PROFESSIONAL SERVICES REVENUE INDEX NUMBER 1. Less than \$100,000 6. \$2 million to less than \$5 million 2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million 3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$20 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.								n	5
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1					W03	Water'	<u>Treatment</u>		6
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1									
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1									
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1									
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1									
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1									
Total 100 54 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE index Number Shown at right) a. Federal Work 1		Other Employees	11						
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) a. Federal Work b. Non-Federal Work c. Total Work a. SIGNATURE 1. Less than \$100,000 6. \$2 million to less than \$5 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.				54					
SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right) a. Federal Work b. Non-Federal Work C. Total Work a. SIGNATURE 1. Less than \$100,000 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	11. ANN	IUAL AVERAGE PROFESSIONAL		DDOE	CCIONAL	CED\/IC			
(Insert revenue index number shown at right) a. Federal Work b. Non-Federal Work c. Total Work 1 2. \$100,000 to less than \$250,000 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$50 million 7. \$5 million to less than \$10 million 8. \$10 million to less than \$25 million 9. \$25 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	SEF					SERVIC	_	_	
a. Federal Work 1 b. Non-Federal Work 7 c. Total Work 8 3. \$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million 10. \$50 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	,, ,					0.000	- •		* -
b. Non-Federal Work 7 c. Total Work 8 4. \$500,000 to less than \$1 million 5. \$1 million to less than \$2 million 7 The foregoing is a statement of facts. 5. \$1 million to less than \$50 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. 6. NAME AND TITLE	2 #250 000 to least their #500 000								
5. \$1 million to less than \$2 million 10. \$50 million or greater 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. a. SIGNATURE c. NAME AND TITLE 5. \$1 million to less than \$2 million 10. \$50 million or greater 10. \$50 million or greater	d. Federal Work 1 4 \$500,000 to local than \$1 million 0 \$25 million to local than \$50 million								
a. SIGNATURE c. NAME AND TITLE 12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts. b. DATE 06/14/2021		*		•					. 400
a. SIGNATURE b. DATE 06/14/2021	c. rotarv	vork 8	12 1111	IODIZED E	EDDESEN	TATI\/E			
a. SIGNATURE b. DATE 06/14/2021 c. NAME AND TITLE		_1	_	_	_				
c. NAME AND TITLE	a. SIGNATUI	RE POL							2021
	c NAME AND	D TITLE						06/14/2	2021

1. SOLICITATION NUMBER (If any) No. 21-0546-NC (SS)

	(It	f a firm has branch o		omplete for	-		ch office seeki		
	BRANCH OFF ega Group						3. YEAR ESTABL 2004		4. DUNS NUMBER 145409707
2b. STREET 1756 Silve	or Stroot						- TVDE	5. OWNE	RSHIP
2c. CITY	er Street			2d. STATE	2e. ZIP COD)	a. TYPE	Inc	
Jacksonv	/ille			FL	322		b. SMAL	L BUSINESS	COTATUO
								BE/MBE	
	Norley, PE	, RCDD					7. NAME OF FIRM		
6b. TELEPHO	NE NUMBER			L ADDRESS			1	N/A	A
(904) 807	-6512		mmorle	ey@ohmeg	gagroup.co	om			
		8a. FORMER FIRM	NAME(S)	(If any)			8b. YR. ESTAB	LISHED	8c. DUNS NUMBER
		N/A	4				N/A		N/A
	9. EN	IPLOYEES BY DISCIPL	INE		А		OFILE OF FIRM'S VERAGE REVEN		
a. Function Code	!	b. Discipline	c. No. of (1) FIRM	Employees (2) BRANCH	a. Profile Code		b. Experience	•	c. Revenue Index Number
21	Electr	rical Engineer	1	, ,	A05	Airpoi Lighti	rts, Navaids; <i>I</i>	Airport	(see below)
02	Adr	ministrative	1		A06	Airpoi	rts; Terminals ars; Freight H		1
08		Technician / Designer	2		E03	Electrical Studies and Design 3			gn 3
57		ural Engineer	1		E07	Energy Conservation, New 1 Energy Sources			1
48	Proj	ect Manager	1		S02	Security Systems; Intruder & 1 Smoke detection			& 1
					E02	Classi	itional Faciliti rooms	es;	2
					L06		ng; Exterior		2
					L05	Lighti	ng; Interior		2
	Other Empl								
		Total	6						
SERV	ICES REVEN FOR LAST 3	E PROFESSIONAL NUES OF FIRM 3 YEARS mber shown at right)		PRC ss than \$100,00 00,000 to less t	00		ES REVENUE IND 6. \$2 million 7. \$5 million	to less tha	
a. Federal Wo	rk	3	•	50,000 to less t	. ,		·		nan \$25 million
b. Non-Federal Work 4. \$500,000 to less to							- •		nan \$50 million
c. Total Work		4	5. \$1	million to less t	than \$2 millio	n	10. \$50 millio	n or greate	er ————————————————————————————————————
				UTHORIZED F foregoing is a					
	Ma	ik A. Worley						b. DATE	24
a. SIGNATUR	E //(w	, 0						6/14/20	21
		, RCDD, President							

AUTHORIZED FOR LOCAL REPRODUCTION MANDATORY USE DATE OF FORM 5/1/2004

1. SOLICITATION NUMBER (If any)
No. 21-0546-NC (SS)

PART II – GENERAL QUALIFICATIONS

(If a	firm has branch offices, con	nplete for each s	pecific branch	office seeking work.)			
	A. CON	TRACT INFO	RMATION				
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER		
RWDI USA LLC				2006	20-5036945		
2b. STREET				5. C	WNERSHIP		
				5a. TYPE			
421 SW 6 th Ave., Suite 450				Limited Liability Compa	ny (LLC)		
2c. CITY		2d. STATE	2e. ZIP COD	DE b. SMALL BUSINESS STATUS			
Portland		OR	97204	N/A			
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (If block 2a is	7. NAME OF FIRM (If block 2a is a branch office)		
Mark D. Vanderheyden, M,ENG., P.ENG., Vice Pr	esident – Americas	/ Principal					
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS						
(503) 467-4710	Mark.Vanderheyd	len@rwdi.c	om				
8a. FORMER FIRM N	IAME(S) (If any)			8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER		
9. EMPLOYEES BY DISCIPL	10 DDOEILE OF FIDM'S EVE	DEDIENCE AND					
5. EMPLOTEES BY DISCIPL		10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS					
a	N (5)				c Revenue		

0. Elili 201220 B1 B10011 Elili2				ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function	·		a. Profile Code	b. Experience	c. Revenue Index Number		
Code		(1) FIRM	(2) BRANCH			(see below)	
02	Administrative Asst	24	1	A01	Acoustics	5	
	Building Enclosure Consultant	11	3	B02	Bridges	6	
	Commissioning Consultant	5	3	S06	Solar	1	
	Energy Consultant	4	1	S11	Sustainability Consulting & Building Certifications	5	
	Field Technician	10	0	W04	Building Aeroelastics	1	
	Project Account Tech	4	01		Commissioning, Energy Audits, Modeling & Tech Services	5	
48	Project Manager	43	2		Damping Systems	5	
42	Sci/Engineer	186	0		Building Enclosure	3	
	Senior Graphics/Modeler	28	0	S09	Cladding/Structural Winds	8	
	Strategic Director	14	0	E13	Pedestrian Level Wind	7	
	Strategic Marketing Analyst	1	0	E13	Air Monitoring	6	
	Sustainability Consultant	5	4	E09	Regulatory Permitting	6	
	Sustainability Leader	2	1	S09	Aeroelastics	4	
	Sustainability Project Coordinator	1	1	A04	Exhaust Dispersion	6	
	Technical Director	38	2	H04	Computational Fluid Dynamics	4	
				E13	Snow and Ice	5	
				102	Industrial Process Measurements	3	
				R10	Risk	3	
				A01	Vibration	3	
				1		1	

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)

4

10

10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000

2. \$100,000 to less than \$250,000

3. \$250,000 to less than \$500,000

4. \$500,000 to less than \$1 million

5. \$1 million to less than \$2 million

6. \$2 million to less than \$5 million

7. \$5 million to less than \$10 million

8. \$10 million to less than \$25 million

9. \$25 million to less than \$50 million

10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

November 13, 2020

C. NAME AND TITLE

a. Federal Work

b. Non-Federal

c. Total Work

Mark D. Vanderheyden, Vice President – Americas

1. SOLICITATION NUMBER (If any)

No. 21-0546-NC (SS)

	(If a t	PA irm has branch offi	RT II - G						rina wo	rk)	
2a. FIRM (or Sightline	Branch Office) NA		000, 00mp	orete for t	sacii sp	COII	io bran	3. YEAR ESTABLISI 2006	HED 4. UI	NIQUE I	ENTITY IDENTIFIER
2b. STREET	, 1110.								L 5. OWNE	RSHII	<u> </u>
	nterprise Way	/						a. TYPE). OVVIVL		
2c. CITY				2d. STA			DE	Subchapter S	Corpora	ation	
Culpeper				VA	227	01		b. SMALL BUSINES			
	F CONTACT NAM							Small, woman			
	. Speidel, Pre							7. NAME OF FIRM (If Block 2a	is a Bra	nch Office)
6b. TELEPHO 540-226-	ONE NUMBER -2656	-	6c. E-MAIL ADI donna@si								
		8a. FORMER FIRM N	NAME(S) (If a	nny)			8b. YEA	R ESTABLISHED	8c. UNIQ	UE EN	TITY IDENTIFIER
	9. EMF	PLOYEES BY DISCIPL	INE		ΔΝΓ) ΔΝ		OFILE OF FIRM' VERAGE REVE			
a. Function			c. Number o	f Employees			WINOAL A		NOLIO		c. Revenue Index
Code	k	o. Discipline	(1) FIRM	(2) BRANCH	4			b. Experience			Number (see below)
	Project Prince		1			/	Assessi	ment - Pavemer	nt Mkgs		3
	Senior Proje		1					Control - Paven		gs	
	Senior Tech	nician	1			-	Training	ı - Pavement M	kgs		
						-					
						-					
	Other Employ	2000				-					
	Other Employ	Total									
SEF	RVICES REVE FOR LAST	E PROFESSIONAL NUES OF FIRM 3 YEARS umber shown at right)	2. \$10	s than \$10 0,000 to le	0,000 ss than \$	250	,000		n to less	than S	R \$5 million \$10 million
a. Federa	l Work	1		0,000 to le			-				\$25 million
b. Non-Fe	deral Work	3		0,000 to le							\$50 million
c. Total V	Vork	3		million to le				10. \$50 million	n or grea	ıeı	
			12. AUTH	ORIZED R	EPRESE	NTA	ATIVE				

Dona J. Speidel President

June 4, 2021

STANDARD FORM 330 (REV. 8/2016) **PAGE 6**



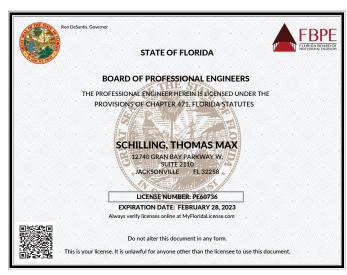
C) TAB 2 - STATEMENTS AND DOCUMENTATION

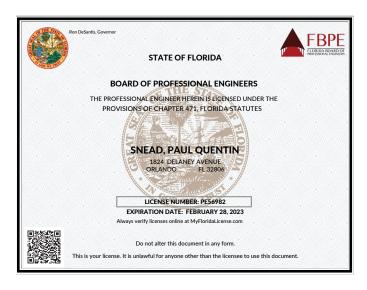
1. PROOF OF LICENSES / CERTIFICATIONS

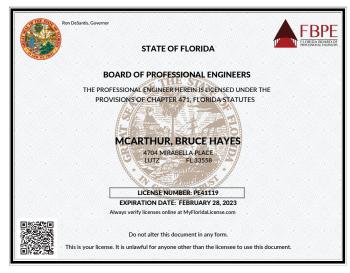






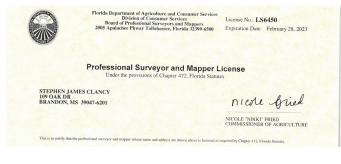


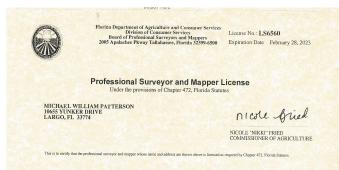




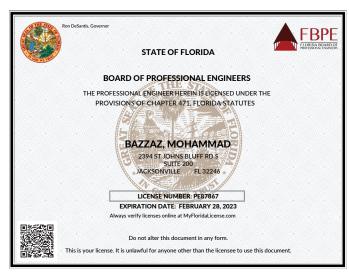


















2.STATE OF FLORIDA BUSINESS LICENSURE AND PROFESSIONAL CERTIFICATIONS/REGISTRATION(S)

MICHAEL BAKER INTERNATIONAL, INC.

State of Florida Department of State

I certify from the records of this office that MICHAEL BAKER INTERNATIONAL, INC. is a Pennsylvania corporation authorized to transact business in the State of Florida, qualified on December 29, 1972.

The document number of this corporation is 829243.

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 April 22, 2021, 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 Tenth day of June, 2021





Tracking Number: 3747820896CU

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

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







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.: LB69

Expiration Date February 28, 2023

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

MICHAEL BAKER INTERNATIONAL, INC. 500 GRANT ST STE 5400 PITTSBURGH, PA 15219-2523

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 BLUE WING ENVIRONMENTAL LLC is a limited liability company organized under the laws of the State of Florida, filed on August 15, 2018.

The document number of this limited liability company is L18000195266.

I further certify that said limited liability company has paid all fees due this office through December 31, 2021, that its most recent annual report was filed on January 5, 2021, 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 Fifth day of January, 2021





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

://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

MC SQUARED, INC.

State of Florida Department of State

I certify from the records of this office that MC SQUARED, INC. is a corporation organized under the laws of the State of Florida, filed on November

The document number of this corporation is P01000107514.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on January 4, 2019, and that its status is active.

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

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





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

ttps://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

ECHO UES, INC

State of Florida Department of State

I certify from the records of this office that ECHO UES, INC. is a corporation organized under the laws of the State of Florida, filed on January 6, 2017, effective January 6, 2017.

The document number of this corporation is P17000002696.

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 18, 2021, and that its status is active.

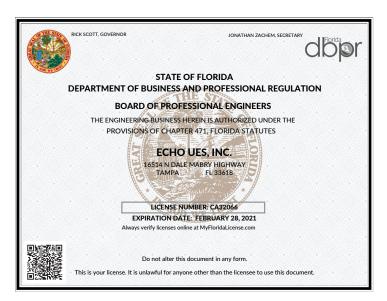
I further certify that said corporation has not filed Articles of Dissolution.

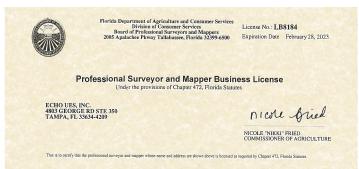
Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighteenth day of January,





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





LANDIS EVANS + PARTNERS, INC.

State of Florida Department of State

I certify from the records of this office that LANDIS, EVANS AND PARTNERS, INC. is a corporation organized under the laws of the State of Florida, filed on June 28, 1982.

The document number of this corporation is F88519.

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 13, 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 Thirteenth day of January,





teking Number: 1599224289CC

bttns://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication



THE OHMEGA GROUP, INC.

State of Florida Department of State

I certify from the records of this office that THE OHMEGA GROUP INC. is a corporation organized under the laws of the State of Florida, filed on October 22, 2018, effective March 5, 2004.

The document number of this corporation is P18000087173

I further certify that said corporation has paid all fees due this office through December 31, 2020 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 Florid at Tallahassee, the Capital, this the Nineteenth day of January,





Fracking Number: 4253554966CU

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

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



RWDI USA, LLC

Licensee

 Name:
 RWDI USA LLC
 License Number:
 27052

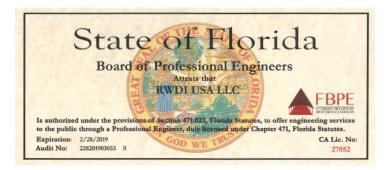
 Rank:
 Registry
 License Expiration Date:

ank: **Registry** License Expiration Date

Primary Status: Current Original License Date: 06/27/2006

Related License Information

License NumberStatusRelated PartyRelationship Endation TypeRelation Effective DateRankExpiration Date68295Current, ActiveCHATTEN, MARK PAUL Registry06/04/2018Professional Engineer02/28/2023



SIGHTLINE, INC.

State of Florida Department of State

I certify from the records of this office that SIGHTLINE AMC, LLC is a Virginia limited liability company authorized to transact business in the State of Florida, qualified on December 30, 2013.

The document number of this limited liability company is M14000000100.

I further certify that said limited liability company has paid all fees due this office through December 31, 2021, that its most recent annual report was filed on January 31, 2021, and that its status is active.

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

at Tallahassee, the Co the Eleventh day of J





Tracking Number: 644948602

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

ttps://services.sunbiz.org/Fillings/CertificateOfStatus/CertificateAuthentication



3. PROOF OF CORPORATE REGISTRATION

DBPR - MICHAEL BAKER INTERNATIONAL, INC., Registry

https://www.myfloridalicense.com/LicenseDetail.asp?SID=&id=B...

9:11:21 AM 6/10/2021

Licensee Details

Licensee Information

Name: MICHAEL BAKER INTERNATIONAL, INC. (Primary Name)

Main Address: 500 GRANT STREET

SUITE 5400

PITTSBURGH Pennsylvania 15219

County: OUT OF STATE

License Mailing:

LicenseLocation:

License Information

License Type: Registry
Rank: Registry
License Number: 28861
Status: Current
Licensure Date: 10/21/2009

Expires:

Special Qualifications Qualification Effective

Alternate Names

<u>View Related License Information</u> <u>View License Complaint</u>

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: Customer Contact Center :: Customer Contact Center: 850.487.1395

The State of Florida is an AA/EEO employer. Copyright 2007-2010 State of Florida. Privacy Statement

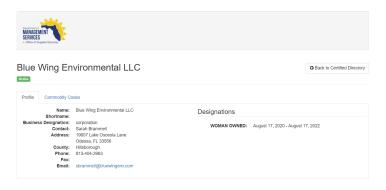
Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public.

1 of 1 6/10/2021, 9:15 AM



4. PROOF OF CERTIFICATE OF FLORIDA SMALL AND MINORITY BUSINESS

BLUE WING ENVIRONMENTAL, LLC



ECHO UES, INC



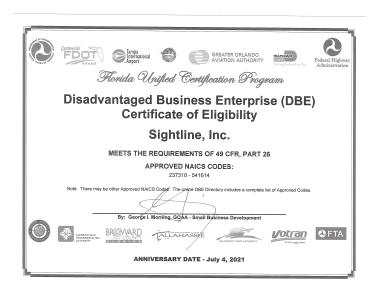
MC SQUARED, INC.



OHMEGA



SIGHTLINE, INC.





5. ATTACHMENT A: SMALL BUSINESS ENTERPRISE STATUS FORM

21-0546-NC (SS) Page 28 of 28

ATTACHMENT A: SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

IMPORTANT:

- 1. There is a maximum of 100 points available under this section, which will be awarded as follows:
 - a. If the prime firm is certified as a Pinellas County SBE, 100 points will be awarded.
 - b. If the prime firm utilizes one (1) certified Pinellas County SBE as sub-consultant, fifty (50) points will be awarded.
 - c. If the prime firm utilizes more than one (1) certified Pinellas County SBE, as sub-consultant, seventy five (75) points will be awarded.
 - d. If the prime firm nor any of its sub-consultants are not certified as a Pinellas County SBE, zero (0%) percent of the points available will be awarded.
- 2. Proof of certification for each firm claiming Pinellas County SBE status should be included in the submittal.

	PINELLAS COUNTY	CERTIFIED SBE
PRIME FIRM	Yes	No
1. Michael Baker International, Inc.		Х

	PINELLAS COUNTY	CERTIFIED SBE
SUB-CONSULTANT(S):	Yes	No
1. Blue Wing Environmental, LLC	X	
2. Echo UES, Inc.	X	
3. MC Squared, Inc.	X	
4. Landis Evans + Partners, Inc.	X	
5.		

I certify that the information included in this Form is true and complete to the best of my knowledge and belief. I further understand and agree points awarded to this section will be based on the information provided and that this Form shall become a part of my contract with Pinellas County.

Name and Title of Authorized Representative:	Mark Kistler, PE, Vice President - Aviation Practice Lead
Signature: Mark E. Hart	

FOR PINELLAS COUNTY USE ONLY							
MAXIMUM AVAILABLE POINTS		AWAR	DED POINTS				
100	☐ 100 Points (Prime Firm is Pinellas County SBE)	☐ 75 Points (More than one (1) sub consultant is Pinellas County SBE)	☐ 50 Points (Only one (1) sub consultant is Pinellas County SBE)	☐ Zero (0) Does not meet criteria requirements			



6. PINELLAS COUNTY SBE STATUS CERTIFICATE(S)

BLUE WING ENVIRONMENTAL, LLC

PINELLAS COUNTY SMALL BUSINESS ENTERPRISE PROGRAM

THIS CERTIFICATE IS AWARDED TO

BLUE WING ENVIRONMENTAL, LLC

HAS SUCCESSFULLY COMPLETED THE SBE Certification Requirements for: Environmental and Ecological Consulting Services Certification Expires: 5/8/2022

Approved: 5/9/2019





ECHO UES, INC



LANDIS EVANS + PARTNERS, INC.

PINELLAS COUNTY SMALL BUSINESS ENTERPRISE PROGRAM

THIS CERTIFICATE IS AWARDED TO

Landis Evans and Partners

HAS SUCCESSFULLY COMPLETED THE SBE Certification Requirements for: Architectural and Engineering Services Certification Expires: 6/17/2022

Approved: 6/18/2019 SIGNED, Dr. Cyclette D





MC SQUARED, INC.





7. OFFICE LOCATION

Michael Baker's aviation center of excellence is located in Tampa. Additionally, Michael Baker has four other offices with aviation professionals that will support Tampa operations as needed, including two in Florida. Twenty percent of Michael Baker's aviation experts reside in Florida. This includes engineers, planners, and construction specialists.

MICHAEL BAKER INTERNATIONAL, INC.
4211 WEST BOY SCOUT BLVD.
SUITE 500
TAMPA, FL 33607
HILLSBOROUGH COUNTY

★ St-Pete-Clearwater International Airport

- Michael Baker Offices
- Blue Wing Environmental, LLC
- ECHO UES, Inc.
- MC Squared, Inc.
- The Ohmega Group, LLC
- Sightline, Inc.
- Landis Evans + Partners, Inc.
- RWDI USA, LLC







CERTIFICATE OF LIABILITY INSURANCE

TAB 3 - CERTIFICATE(S) OF INSURANCE

DATE(MM/DD/YYYY)

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

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

PRODUCER Aon Risk Services Central, Inc.	CONTACT NAME:			
Pittsburgh PA Office	PHONE (A/C. No. Ext):	(866) 283-7122	FAX (A/C. No.): (800) 363-01	.05
EQT Plază ~ Suite 2700 625 Liberty Avenue	E-MAIL ADDRESS:			
Pittsburgh PA 15222-3110 USA	INSURER(S) AFFORDING COVERAGE			NAIC#
INSURED	INSURER A:	American Casualty Co.	of Reading PA	20427
Michael Baker International, Inc.	INSURER B:	Transportation Insuran	ce Co.	20494
4211 West Boy Scout Blvd Suite 500	INSURER C:	Continental Casualty C	ompany	20443
Tampa FL 33607 USA	INSURER D:	Allied World National	Assurance Company	10690
	INSURER E:	Allied World Surplus L	ines Insurance Co	24319
	INSURER F:	XL Insurance America I	nc	24554

CERTIFICATE NUMBER: 570087701505

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. Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL SU	UBR IVD POLICY NUMBER	POLICY EFF POLICY EXE		S
С	X COMMERCIAL GENERAL LIABILITY		6078988730	08/30/2020 08/30/202	1 EACH OCCURRENCE	\$2,000,000
	CLAIMS-MADE X OCCUR				DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000
					MED EXP (Any one person)	\$10,000
					PERSONAL & ADV INJURY	\$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	\$2,000,000
	POLICY X PRO- JECT X LOC				PRODUCTS - COMP/OP AGG	\$2,000,000
	OTHER:					
С	AUTOMOBILE LIABILITY		BUA 6078988680	08/30/2020 08/30/202	1 COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	X ANY AUTO				BODILY INJURY (Per person)	
	OWNED SCHEDULED AUTOS				BODILY INJURY (Per accident)	
	AUTOS ONLY HIRED AUTOS ONLY AUTOS NON-OWNED AUTOS ONLY				PROPERTY DAMAGE (Per accident)	
			02124000	00/20/2020/00/20/202	1	
D	X UMBRELLA LIAB X OCCUR		03124809	08/30/2020 08/30/202	EAGIT GOODTITIENGE	\$5,000,000
	EXCESS LIAB CLAIMS-MADE				AGGREGATE	\$5,000,000
	DED X RETENTION \$10,000					
Α	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		wC6078988713	08/30/2020 08/30/202	1 X PER STATUTE OTH-	
В	ANY PROPRIETOR / PARTNER / EXECUTIVE	N/A	AOS WC6078988727	08/30/2020 08/30/202	E L EAGULAGOIDENE	\$1,000,000
	(Mandatory in NH)		WI	33, 33, 2320 00, 30, 202	E.L. DISEASE-EA EMPLOYEE	\$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below				E.L. DISEASE-POLICY LIMIT	\$1,000,000
E	E&O-PL-Primary		03124806 Claims Made SIR applies per policy t	08/30/2020 08/30/202 terms & conditions	1 Per Claim Aggregate	\$10,000,000 \$10,000,000

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

Contractual Liability coverage is included in the General Liability policy. Coverage to include claims for "Products/Completed Operations". RE: MB Project Name: 21-0546-NC SS, RFP - Cargo Apron Reconstruction and Replacement for Runway 9-27(1). Pinellas County a Political subdivision of the State of Florida are included as Additional Insured in accordance with the policy provisions of the General Liability and Automobile Liability policies. General Liability and Automobile Liability policies evidenced herein are Primary and Non-Contributory to other insurance available to Additional Insured, but only in accordance with the policy's provisions. A Waiver of Subrogation is granted in favor of the Pinellas County and State of Florida Department of Transportation in accordance with the policy provisions of the General Liability, Automobile Liability,

CANCELLATION

CERTIFICATE HOLDER	
--------------------	--

Pinellas County Administrative Services 400 S. Ft. Harrison Avenue Clearwater FL 33756 USA AUTHORIZED REPRESENTATIVE

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

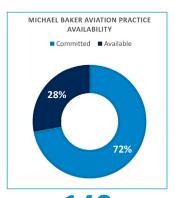
Aon Rish Services Central, Inc

©1988-2015 ACORD CORPORATION. All rights reserved.

E TAB 4 - KEY PERSONNEL STATEMENT



On behalf of Michael Baker International, Inc., we are committed to providing the necessary human and physical resources required to ensure that PIE receives quality services and the highest level of expertise, accuracy, timeliness, communication, accessibility, responsiveness, and innovation. We look forward to the opportunity to serve this very important contract and have taken great care to assemble a Team that is committed and available to meet its specific demands. The availability shown below for each team member indicates the minimum committed availability for the duration of applicable assigned tasks. However, our team is committed to meeting the manpower and resource demands of every task assigned under this contract, whether the need is 1% or 100%. Michael Baker has the depth of technical capacity and expertise available to address any demand that may arise from this contract.



160 Michael Baker Aviation Professionals

Sincerely,

Mark E. Harry

Mark Kistler, PE Vice President - Aviation Practice Lead Nathan Parish, PE, CCM Project Manager

THE MICHAEL BAKER TEAM'S MINIMUM COMMITTED AVAILABILITY							
Tana Mambay 0 Dala	Scoping	Data Collection	Design (30/60/90/100)	Bidding & Contracting	Construction	Total Project Weighted	
Team Member & Role	3 Months	1 Month	6 Months	3 Months	11 Months	Average	
	Aug '21-Nov '21	Dec '21	Dec '21 - May '22	May '22 - Jul '22	Jul '22 - Jun '23	23 Months	
Nathan Parish, PE, CCM Project Manager	50%	40%	50%	30%	40%	42%	
Mike Thompson Airport Planner & Project Coordinator	30%	15%	30%	15%	20%	23%	
Tom Schilling, PE Airfield Engineer	40%	20%	15%	20%	30%	25%	
Shawn Sentelle Airfield Designer	10%	10%	60%	30%	30%	35%	
Paul Snead, PE Drainage Engineer	20%	20%	40%	20%	30%	30%	
Sunil Khatri, PE Electrical Engineer	20%	20%	40%	20%	30%	30%	
Tracy Hollida, PE Quality Control Engineer	0%	0%	30%	0%	0%	8%	
Kevin Sigg, PE Airfield Phasing Engineer	10%	0%	40%	0%	15%	18%	
Bruce McArthur, PE Pinellas County Drainage Engineer	10%	10%	40%	10%	15%	20%	
Mark Morely, PE, RCDD Electrical Engineer	15%	25%	40%	15%	20%	25%	
Jerry Comellas, Jr., PE SUE Lead	15%	50%	10%	0%	0%	9%	
Mike Patterson, PSM Surveying Lead	15%	50%	10%	0%	0%	9%	
Mohammad Bazzaz, PhD, PE, CPM Geotechnical Engineer and Pavement Specialist	15%	40%	20%	0%	0%	10%	
Sarah Brammell Environmental Scientist	10%	40%	15%	0%	0%	9%	

Michael Baker

DATE RECEIVED

ACKNOWLEDGMENT OF ADDENDA

ADDENDA NO.

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SECTION G - ADDENDA ACKNOWLEDGMENT FORM

Proposal Title: Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services

Proposal No: 21-0546-NC (SS)

SIGNATURE/PRINTED NAME

PLEASE ACKNOWLEDGE RECEIPT OF ADDENDA FOR THIS RFP BY SIGNING AND DATING BELOW:

1	Mark E. Knot	5/28/2021
2	Mark E French	6/18/2021

Note: Prior to submitting the response to this solicitation, it is the responsibility of the firm submitting a response to confirm if any addenda have been issued. If such document(s) has been issued, acknowledge receipt by signature and date in section above and return Addenda Acknowledgement Form with RFP. Failure to do so may result in being considered non-responsive or result in lowering the rating of a firm's proposal.

Information regarding Addenda issued is available on the Purchasing and Risk Management Department section of the County's CCNA website at, http://www.pinellascounty.org/purchase/CCNA.htm



Form W-9
(Bev. October 2018)

(Rev. October 2018)

Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

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

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

	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.								
	Michael Baker International, Inc.								
	2 Business name/disregarded entity name, if different from above								
page 3.	3 Check appropriate box for federal tax classification of the person whose nam following seven boxes.	e is entered on line 1. Che	eck only on	e of the	certa	emption in entitie	s, not	individu	y only to lals; see
on	☐ Individual/sole proprietor or ☐ C Corporation ☐ S Corporation	Partnership	☐ Trust/	estate					
e.	single-member LLC				Exem	npt payee	code	(if any)	
t d	Limited liability company. Enter the tax classification (C=C corporation, S=	S corporation, P=Partners	ship) ▶						
					ption from FATCA reporting (if any)				
Sec	☐ Other (see instructions) ▶				(Applie	s to accoun	ts mainta	ained outsid	de the U.S.)
S	5 Address (number, street, and apt. or suite no.) See instructions.		Requester	s name a	ind ad	dress (or	otiona	1)	
See	100 Airside Drive								
0,	6 City, state, and ZIP code								
	Moon Township, PA 15108								
	7 List account number(s) here (optional)		-						
Par	Taxpayer Identification Number (TIN)								
100000000	your TIN in the appropriate box. The TIN provided must match the name	e given on line 1 to avo	nid S	ocial sec	urity	number			
backu	p withholding. For individuals, this is generally your social security num	ber (SSN). However, fo		TT	7		7		TTT
resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other				-		1-			
entitie	s, it is your employer identification number (ÉIN). If you do not have a n	umber, see How to get					_		
		Alaa aaa IA/bat Alama s	or F	mployer	identi	fication	numh	er	
	If the account is in more than one name, see the instructions for line 1. er To Give the Requester for guidelines on whose number to enter.	Also see vinal name a	aria	TIPIOYET	Г	T			
	9		2	5 -	- 1	2 2	8	6 3	8
Dow	II Certification								
Par									
	penalties of perjury, I certify that:								
2. I an Ser	number shown on this form is my correct taxpayer identification number not subject to backup withholding because: (a) I am exempt from bac vice (IRS) that I am subject to backup withholding as a result of a failure onger subject to backup withholding; and	kup withholding, or (b)	I have not	been no	otified	by the	Inter		
3. I an	a U.S. citizen or other U.S. person (defined below); and								
4. The	FATCA code(s) entered on this form (if any) indicating that I am exemp	t from FATCA reporting	g is correc	t.					
you ha	cation instructions. You must cross out item 2 above if you have been no we failed to report all interest and dividends on your tax return. For real est ition or abandonment of secured property, cancellation of debt, contribution han interest and dividends, you are not required to sign the certification, but	ate transactions, item 2 ons to an individual retire	does not a ement arra	ipply. Fo	r mor	tgage in , and ge	terest neral	paid, y, payn	nents
Sign Here	Signature of Gregory Smay			1/18/	,			a - 1/2002 - 2003 100	acces produces
	U.S. person ► // /	D	Date >	1100	do	d l			
	neral Instructions	 Form 1099-DIV (div funds) 	vidends, in	cluding	those	from s	tocks	or mu	tual
Section noted	on references are to the Internal Revenue Code unless otherwise	• Form 1099-MISC (v	various typ	es of inc	come	, prizes	, awa	rds, or	gross
related	d to Form W-9 and its instructions, such as legislation enacted	Form 1099-B (stock transactions by broken		al fund sa	ales a	and cert	ain o	ther	
arter t	after they were published, go to www.irs.gov/FormW9. • Form 1099-S (proceeds from real estate transactions)								
Purpose of Form • Form 1099-K (merchant card and third party network transaction)		ions)							

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

Form 1099-INT (interest earned or paid)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

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

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

Form W-9 (Rev. 10-2018)



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SECTION D - VENDOR REFERENCES

Proposal Title: Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services

Proposal Number	er: 21-0546-NC (SS)
THE FOLLOWING INFORMATION IS REQUIRED IN ORDER EVALUATED.	THAT YOUR PROPOSAL MAY BE REVIEWED AND PROPERLY
COMPANY NAME: Michael Baker International, Inc.	
LENGTH OF TIME COMPANY HAS BEEN IN BUSINESS:	81 Years
BUSINESS ADDRESS: 4211 West Boy Scout Boulevard, Sui	ite 500 Tampa, FL 33607
HOW LONG IN PRESENT LOCATION: 3 years, 8 months (H	Have had an office in Tampa for 34+ years)
TELEPHONE NUMBER: 813.466.6000	FAX NUMBER: 813.889.3893
TOTAL NUMBER OF CURRENT EMPLOYEES: 3039 FU	JLL TIME 443 PART TIME
NUMBER OF EMPLOYEES YOU PLAN TO USE TO SERVIC	E THIS CONTRACT: 23
All references will be contacted by a County Designee via applicable before an evaluation decision is made.	a email, fax or phone call to obtain answers to questions, as
REFERENCES WILL NOT BE ACCEPTED) THAT YOU SERVICES FOR: All fields below must be completed 1 Charlotte County Airport Authority	HAVE PREVIOUSLY PERFORMED SIMILAR CONTRACT Hernando County
COMPANY NAME Punta Gorda, FL CITY, STATE Ron Ridenour CONTACT PERSON 941-639-1101 TELEPHONE 941-639-4792 FAX rridenour@flypgd.com EMAIL ADDRESS	COMPANY NAME Brooksville, GL CITY, STATE Kevin Daugherty CONTACT PERSON 352-754-4061 TELEPHONE 352-799-1711 FAX KDaugherty@co.hernando.fl.us EMAIL ADDRESS
Jacksonville Aviation Authority COMPANY NAME Jacksonville, FL CITY, STATE Kelly Dollarhide CONTACT PERSON 904-887-5061 TELEPHONE 904-573-1604 FAX kelly.dollarhide@cecilairport.com EMAIL ADDRESS	4 City of Atlanta, Department of Aviation COMPANY NAME Atlanta, GA CITY, STATE Norma Click CONTACT PERSON 404-382-1304 TELEPHONE 404-382-1304 FAX norma.click@atl.com EMAIL ADDRESS



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PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS 400 S. FT. HARRISON AVENUE ANNEX BUILDING - 6TH FLOOR CLEARWATER, FL 33756

ISSUE DATE:

May 19, 2021

REQUEST FOR QUALIFICATIONS **PROPOSAL** PROFESSIONAL SERVICES -NON-CONTINUING

AS GOVERNED BY FLORIDA STATUTE 287.055

PROPOSAL SUBMITTALS RECEIVED AFTER SUBMITTAL DATE & TIME WILL NOT BE **CONSIDERED**

TITLE: Cargo Apron Reconstruction and Replacement of Runway 9-27 with a **RFP NUMBER: 21-0546-NC (SS)** Taxiway - Professional Engineering Services SITE VISIT DATE & LOCATION: June 29, 2021 @ 3:00 P.M. AND MAY NOT BE WITHDRAWN FOR 120 DAYS FROM DATE LISTED ABOVE. Date: Monday, June 10, 2021 Time: 10:00 A.M. DEADLINE FOR WRITTEN QUESTIONS: June 18, 2021 BY 3:00 P.M. Location: 14700 Terminal Blvd., 2nd SUBMIT QUESTIONS: ALL QUESTIONS MUST BE SUBMITTED IN PINELLAS Floor Conference Room Clearwater, EPRO WITHIN THE Q & A TAB. Florida 33762 THE MISSION OF PINELLAS COUNTY Pinellas County Government is committed to progressive public policy, superior public service, courteous public contact, judicious exercise of authority and sound management of public resources to meet the needs and concerns of our citizens today and tomorrow. MERRY CELESTE, CPPB Division Director of Purchasing and Risk Management

PROPOSER MUST COMPLETE THE FOLLOWING

NO CHANGES REQUESTED BY A PROPOSER WILL BE CONSIDERED AFTER THE RFP OPENING DATE AS ADVERTISED. BY SIGNING THIS PROPOSAL FORM YOU ARE AGREEING TO ALL PROPOSAL TERMS AND CONDITIONS, INCLUDING ALL INSURANCE REQUIREMENTS.

PROPOSER (COMPANY NAME): Michael Baker International, Inc.	D/B/A				
4211 West Boy Scout Boulevard, Suite 500	Tampa, FL 33607				
Mailing Address	City, State Zip				
mkistler@mbakerintl.com	813-466-6016	813-889-3893			
Company Email Address	Phone	Fax			
Mark Kistler, PE	mkistler@mbakerintl.com	esident - Aviation Practice Lead			
Remit To Name (as Shown on Company Invoice	Printed Contact Represent	Printed Contact Representative/Title/Email			
Proper Corporate Identity is needed when you submit your pro- Corporations. Please visit www.sunbiz.org for this information.	pposal, especially how your firm is r	registered with the Florida Division of			
I HEREBY AGREE TO ABIDE BY ALL TERMS AND CONDITION	IS OF THIS RFP EXCEPT AS NOTEL	BY EXCEPTION, INCLUDING ALL			
INSURANCE REQUIREMENTS & CERTIFY I AM AUTHORIZED	TO SIGN THIS RFP FOR THE PROP	OSER			
Mark E. France	Mark Kistler, PE, Vice Pr	esident - Aviation Practice Lead			
AUTHORIZED SIGNATURE	PRINT NAME & TITLE				

RETURN THIS FORM WITH YOUR PROPOSAL

PINELLAS COUNTY ADMINISTRATIVE SERVICES RFP- PROFESSIONAL SERVICES NON-CONTINUING CONTRACT REVISED: 04-2021



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SECTION F ELECTRONIC PAYMENT

Proposal Title: Cargo Apron Reconstruction and Replacement for Runway 9-27 with a Taxiway Professional Engineering Services

Proposal No.: 21-0546-NC (SS)

Electronic Payment (ePayables)

The Pinellas County Board of County Commissioners (County) offers a credit card payment process (ePayables) through Bank of America. Pinellas County does not charge vendors to participate in the program; however, there may be a charge by the company that processes your credit card transactions. For more information please visit Pinellas County purchasing website at www.pinellascounty.org/purchase.

Would your co	mpany accept to partic	ipate in the ePayables credit card program?
	Yes	☐ No
	Michael Bal	ker International, Inc.
	Company Na	me E. Kusto
	Authorized Si	gnature (for payment acceptance)
		PE, Vice President - Aviation Practice Lead ture/Title/Department
	813-466-60	
	Phone Number	er

PINELLAS COUNTY ADMINISTRATIVE SERVICES RFP- PROFESSIONAL SERVICES NON-CONTINUING CONTRACT REVISED: 04-2021



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ATTACHMENT A: SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

IMPORTANT:

- 1. There is a maximum of 100 points available under this section, which will be awarded as follows:
 - a. If the prime firm is certified as a Pinellas County SBE, 100 points will be awarded.
 - b. If the prime firm utilizes one (1) certified Pinellas County SBE as sub-consultant, fifty (50) points will be awarded.
 - c. If the prime firm utilizes more than one (1) certified Pinellas County SBE, as sub-consultant, seventy five (75) points will be awarded.
 - d. If the prime firm nor any of its sub-consultants are not certified as a Pinellas County SBE, zero (0%) percent of the points available will be awarded.
- 2. Proof of certification for each firm claiming Pinellas County SBE status should be included in the submittal.

	PINELLAS COUNTY CERTIFIED SBE			
PRIME FIRM	Yes	No		
1. Michael Baker International, Inc.		X		

	PINELLAS COUNTY	CERTIFIED SBE
SUB-CONSULTANT(S):	Yes	No
1. Blue Wing Environmental, LLC	X	
2. Echo UES, Inc.	X	
3. MC Squared, Inc.	X	
4. Landis Evans + Partners, Inc.	X	
5.		

I certify that the information included in this Form is true and complete to the best of my knowledge and belief. I further understand and agree points awarded to this section will be based on the information provided and that this Form shall become a part of my contract with Pinellas County.

Name and Title of Authorized Representative:	Mark Kistler, PE, Vice President - Aviation Practice Lead
Signature: Mark E. Harbert	

FOR PINELLAS COUNTY USE ONLY						
MAXIMUM AVAILABLE AWARDED POINTS POINTS						
100	☐ 100 Points (Prime Firm is Pinellas County SBE)	☐ 75 Points (More than one (1) sub consultant is Pinellas County SBE)	☐ 50 Points (Only one (1) sub consultant is Pinellas County SBE)	Zero (0) Does not meet criteria requirements		



Exhibit B

Not Applicable

DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB 0348-0046

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 (See reverse for public burden disclosure.)

1. Type of Federal Action:	2. Status of Federa	I Action:	3. Report Type:		
a. contract	a. bid/offer/application		a. initial filing		
└── [│] b. grant	b. initial award		b. material change		
c. cooperative agreement	c. post-	award	For Material	Change Only:	
d. loan	-		year	quarter	
e. loan guarantee				st report	
f. loan insurance				•	
4. Name and Address of Reportin	g Entity:	5. If Reporting En	tity in No. 4 is a S	ubawardee, Enter Name	
Prime Subawardee		and Address of	Prime:	•	
Tier	, if known:				
*Name *Street 1 *Street 2					
*City *State					
*Zip Congressional District, <i>if knowl</i>	ı.	Congressional	District, if known:		
6. Federal Department/Agency:	1.		m Name/Descripti	on:	
8. Federal Action Number, if know	vo.1	CFDA Number, a	if applicable:		
8. Federal Action Number, IT KNOW	n:	9. Award Amount	., IT KNOWN:		
		\$			
10. a. Name and Address of Lobb (if individual, last name, first i Not Applicabl	name, MI):	b. Individuals Per different from N (last name, first	lo. 10a)	(including address if	
11. Information requested through this form is authorized through the form is a supplication to the supplicatio	ed by title 31 U.S.C. section	Signaturo:			
1352. This disclosure of lobbying activities is a m upon which reliance was placed by the tier above wh	aterial representation of fact				
or entered into. This disclosure is required pursua	ant to 31 U.S.C. 1352. This	Print Name:			
information will be available for public inspection. A required disclosure shall be subject to a civil penalty		Title:			
not more than \$100,000 for each such failure.					
Federal Use Only:				Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)	

PRINT



G)TAB 6 - ADDITIONAL INFORMATION

PROJECT UNDERSTANDING

The Michael Baker Team has spent considerable time discussing this project with airport staff and other project stakeholders and researching various documents to acquire a detailed and comprehensive understanding of the project. This includes several site visits and meetings with airport staff and virtual conference calls with Allegiant. Mike Thompson has also facilitated recent discussions with the Coast Guard and Sheriff related to siting of the new Sheriff's Hangar location recently building upon his keen understanding of their operations.

We have also conducted meetings with our subconsultant team members in all applicable areas of this approach to incorporate their expertise into this proposal. This includes multiple discussions with MC2 related to the viability of Full-Depth Reclamation (FDR) and other pavement recycling options. It also includes discussions with Landis Evans related to Pinellas County drainage permitting and discussions with Sightline on ways to improve pavement marking processes.

We have also had discussions with Gene Crosson, Pinellas County Engineering and Robin McGill, SWFWMD to fully understand the expected Pinellas County and SWFWMD permitting requirements and the drainage impacts of this project.

OUR APPROACH WILL DELIVER A PROJECT THAT:

- Facilitates fast, accurate, and cost-effective project scoping
- Maximizes safety and minimize disruption during data collection activities
- Makes use of data collection technology that will result in a high benefit-cost ratio
- Minimizes construction cost
- Minimizes impact to airport operations and maximize airfield safety

We are confident that the time we have invested so far on this proposal and our robust understanding of the project will enable the our team to deliver a project the exceeds PIE's expectation. This preparation will save PIE time and money during both design and construction and reduce stress to airport staff and airport stakeholders.

The project is logically divided into two (2) main parts, the cargo apron, and the taxiways. The cargo apron pavement is in poor condition and consists of mostly asphalt pavement

under concrete pavement, except three existing concrete pads. Replacing the apron with new concrete pavement will reduce the risk of FOD, reduce future pavement maintenance costs, provide better structural support for parked aircraft, especially during the summer months, and allow parking positions to be adjusted as aircraft types and demands change over time.

Adding Taxiway C provides a "bypass" taxiway for the Coast Guard, Sheriff, and commercial aircraft to improve the serviceability of Taxiway T for commercial aircraft push-back and taxi. Taxiway C also serves as a prerequisite for the future terminal expansion and associated apron expansion by providing adequate clearances for the future expansion. Demolishing the decommissioned runway will reduce the airport's pavement maintenance costs by creating a net reduction in airfield pavement. New Taxiway A4 will provide an additional exit point for aircraft landing on Runway 18-36 which will allow for a faster exit from Runway 18-36 and faster taxi access to the terminal apron, saving time and fuel costs for airlines.

THE KEYS TO PROJECT SUCCESS

- Project Management
- Data Collection and Mobile LiDAR
- Minimizing Construction Costs
- Maintaining Airfield Operations
- Having a Detailed Understanding of Design Elements

PROJECT MANAGEMENT

The single most important factor in providing PIE with stellar service is the project manager. With Nathan you will get one of Michael Baker's best project managers and a highly capable airfield engineer who:

- KNOWS THE PROJECT Understands all aspects of the project and how they fit together. He has led every aspect of the research and development of this proposal.
- UNDERSTANDS PIE'S NEEDS Knows the airport departments and airport stakeholders that will be impacted by design and construction decisions.
- KNOWS HIS TEAM Hand-selected experts, that bring strength and expertise to PIE and the Michael Baker team.
- IS ACCOUNTABLE He takes pride in his work and will be accountable for the performance of Michael Baker and our subconsultant partners.
- LISTENS He knows how important it is to listen to airport staff, stakeholders, and his subconsultant team and values others' ideas and expertise.



MICHAEL BAKER INTERNAL PROCESSES

Michael Baker will use our proven project management processes to provide PIE with exceptional client service to deliver quality services on time and within budget. **Nathan** will provide internal project status updates monthly and attend a monthly project status review (PSR) meeting with upper management. The PSR meetings allow collaboration to resolve problems, share lessons learned, and allow for proactive project course correction if needed. PSR topics typically include:

- Client Satisfaction
- Staff Performance and Resources
- Subconsultant Performance
- Multi-Office Coordination / Workshare
- Project Schedule
- Project Financials

SUBCONSULTANT MANAGEMENT AND ACCOUNTABILITY

The performance of subconsultants is an important factor in project success. The best indication of future performance is past performance. We have strong, long-standing relationships with our teaming partners. Michael Baker's Best Practices for subconsultant management includes:

- Involve them early
- Maintain a collaborative team environment
- Be clear on subconsultant personnel roles and expectations
- Conduct regular progress meetings
- Provide regular schedule updates
- Clearly communicate schedule and quality expectations
- Establish clear lines of communication and authority
- Engage them in interdisciplinary coordination, quality control efforts and peer reviews
- Monitor the sub's performance and provide feedback regularly
- Request client feedback on subs performance
- Be clear on the invoicing format, process and timing
- Communicate change guickly
- Be clear with expectations with respect to managing change
- Avoid becoming "accidental adversaries"

We are fully accountable for the performance of our subconsultants. That is why we have committed Michael Baker professionals to almost every aspect of this project. This will allow us to deliver nearly all of this project in-house if the need arises. For example, we have committed **Sunil** to this project for airfield lighting design to supplement Ohmega's efforts.

PROJECT DELIVERY PROCESS

Michael Baker is committed to delivering quality, on time, and within the design budget. To do so, we have tailored our project delivery process to suit this project. Our process identifies the key project tasks, the timing of those tasks, and the right team members to involve in each phase of the project.

The graphic on the following page details our project delivery process. The various project phases are arranged chronologically from left to right across the top. Along the left side we have included key "Processes and Tasks", required "Team Involvement", and "Deliverables" expected for each project phase.

Project management will be important throughout the process and a focus during project initiation. During the design phases, we will focus on cost savings and PIE's project goals and preferences. Quality control will be critical as the construction plans are being finalized to facilitate quality and cost control during construction. More information on cost control is provided in a later section.

Project scoping and earlier design phases will be keys to project success. Addressing issues early in the design phase will save time as design progresses and will aid in establishing an accurate construction budget.



	PROJECT Initiation	PRE-DESIGN	DESIGN / CONSTRUCTION DOCUMENTS (30/60/90/ FINAL DESIGN)	BIDDING	CONSTRUCTION
PROCESSES AND TASKS	Establish Team Organization and Communications PIE Scoping Meeting Internal Design Team Scoping Meetings Engineering Contract Approval (BOCC Approval) Project Management and Quality Management Plans	Pre-Field Work Coordination and Safety Meeting(s) with PIE and Stakeholders Mobile LiDAR / Topographic Survey Subsurface Utlity Engineering (SUE) Engineer Field Visits Civil, Electrical As-Builts Drawings Review Base-mapping of Existing Conditions ALP and terminal expansion review and coordination	 PIE and Stakeholder Coordination Milestone Design Meetings Discipline designs: Airfield Civil, Airfield Electrical, High-Mast Lighting, Drainage Airfield Phasing Pavement Designs Pavement Marking Drainage Modeling / Calculations Hydraulic Calculations Electrical Calculations and Photometrics Drainage Permitting / Pre- Application Meetings Online CSPP and Form 7460 Submission Plans and Detail Drawings Technical Specifications Design Reports Quantity Calculations and Cost Estimates PIE Design Review Meetings 	Advertise for Bids Pre-Bid Conference Addenda / Document Updates Contact Prospective Bidders Tabulate Bids, Review DBE participation, and Recommend Award Apply for and Receive Grants	 Prepare Conformed Construction Documents Attend Pre-Construction Meeting Coordinate with RPR Firm Review Technical Submittals / Shop Drawings Conduct Period Site Visits Respond to Contractor Requests for Information (RFIs) Review Pay Applications Review Change Orders Prepare Design and Document Revisions Attend substantial and final completion walk-throughs Assist in Developing Punch Lists Prepare the Closeout Documentation Binder Closeout Permits
TEAM INVOLVEMENT	PIE StaffDesign Firm LeadsField Work	 PIE Staff PIE ATCT Allegiant Coast Guard Sheriff Design Firm Leads Field Work Firms 	 PIE Staff PIE ATCT Allegiant Coast Guard Sheriff Pinellas County Engineering SWFWMD Design Firms 	Board of County Commissioners PIE Staff Pinellas County Purchasing Design Firms	 PIE Staff Allegiant Coast Guard Sheriff Pinellas County Engineering SWFWMD Design Firms Contractor
DELIVERABLES	Team Organization Chart Scope, Fee, Contract Baseline Design Schedule Meeting Agendas & Minutes	Topographic Survey High-Resolution Imaging - Online Platform Updated Airport Base Map (AutoCAD) Subsurface Utility Drawings Geotechnical Report Site Visit Reports w/ Photos Meeting Agendas & Minutes	 Construction Plans Technical Specifications Front End Specifications Design Reports Cost Estimates CSPP and 7460 Receipt 3D Renderings Design and Quantity Calculations Meeting Agendas & Minutes 	Final Bid Documents Prebid Meeting Agenda and Minutes Addenda Narratives Revised Bidding Documents Bid Tabulation and Recommendation Letter Grant Application	Conformed Construction Documents Preconstruction Meeting Agenda and Minutes Technical Submittal and RFI Responses Site Visit Reports w/ Photos Signed Contractor Pay Applications Change Order Tabulations Construction Document Revisions Updated Airport Base Map (AutoCAD) LiDAR As-Built Survey High-Resolution Imaging Online Platform Record Drawings Meeting Notes



PIE STAFF INVOLVEMENT AND COMMUNICATION

Our approach includes involving PIE staff in our design process as much as possible. Nathan, Mike, and our other discipline leads are committed to meeting with PIE staff in our Tampa office, at the airport, and virtually as needed (including after hours). We will work through every detail of the project using a hands-on approach. Our Tampa office is well-furnished to host visits from PIE staff including multiple conference rooms with large television monitors. This will facilitate productive team collaboration using virtual videos, aerial imagery, conceptual layouts, and detailed design drawings. Michael Baker has also



integrated Microsoft Teams and Cisco Webex into our regular work processes to facilitate impromptu virtual meetings with screen sharing capability.

STAKEHOLDER INVOLVEMENT

For this project, stakeholder involvement will be more critical than usual. This project involves many stakeholders, permitting agencies, and design team members. Stakeholders such as the Coast Guard, Sheriff, and ATCT will be keenly interested in the impact this project will have on their processes and operations. Mike has a long history of coordinating impacts to airport operations with the PIE Stakeholders including most recently:

- The Pinellas County Sheriff's Office (PCSO) Cessna Caravan use of Taxiway B
- The Coast Guard's mission-based C-130 operations and helicopter operations on Taxiway B
- The PIE ATCT as it relates to a Runway Incursion Mitigation Study (RIMS) for Runway 4.

Mike's experience with PIE Stakeholders will bring great value to PIE and differentiates us from our competitors. We will communicate with stakeholders early and often to maintain the design schedule and deliver a construction approach that meets PIE's expectations and is acceptable to all stakeholders involved.

As mentioned earlier, we have already started this process (both directly for the project and incidentally through the siting of the new PCSO hangar location). Our Team has acquired details from PIE staff, Pinellas County Engineering, SWFWMD, Coast Guard, PCSO, and several of our subconsultant team members. **Nathan** will involve **Mike** as the stakeholder coordinator to continue to build on this collaboration.





RELEVANT RECENT MEETINGS

Stakeholder	People Involved	Meeting Topics
	Mark Sprague, Nathan Parish, Mark Kistler	Past projects lessons learned, Michael Baker capabilities, proposed project team
PIE	Mark Sprague, Erin Johnson, Nathan Parish	Project site visit, project discussion, photographic documentation
	Mark Sprague, Erin Johnson, Nathan Parish	Michael Baker Airfield project experience, mobile LiDAR capabilities, project manager role
Coast Guard & Sheriff	Mike Thompson, Tom Jewsbury, Scott Yarley, Sheriff, Coast Guard, ATCT	Sheriff hangar siting and the associated airport, Sheriff, and Coast Guard operational impacts
Allegiant	Angela Peterson, James Ostovich, Nathan Parish, Tom Schilling	Forecasted Allegiant operations, increase in aircraft fleet, maintaining space for equipment, dust control, Allegiant's expected involvement in design and construction, impact to ramp infrastructure, impact to Positions 12-14
SWFWMD	Robin McGill, Tom Schilling, Nathan Parish	2020 PIE drainage master plan, type of permit expected, expected treatment and attenuation requirements, connected drainage systems, Pinellas County drainage requirements, implementing a ledger system for PIE
Pinellas County	Gene Crosson, Paul Snead, Nathan Parish	Nutrient reduction process, Pinellas Engineering staff, recommended Pinellas SBE firms for drainage permitting

PRE-DESIGN / DATA COLLECTION FIELD INVESTIGATIONS

Performing field investigations quickly and safely, with minimal disruptions to the airfield will be paramount.

Especially within the Cargo Apron area, the Taxiway A and B object free areas, and the Runway 18-36 safety area. Michael Baker, Echo, and MC2 will be performing the pre-design field work and all firms are keenly familiar with airport field work processes. Both MC2 and Echo have safely performed field work for Michael Baker at nearby airports within the last 9-months and Echo recently provided survey services at PIE for the Runway 18-36 Rehabilitation project. Furthermore, Echo has as-built topography and LiDAR of Runway 18-36 on file including nearby survey control. This will result in a cost savings to PIE and improve safety during field investigations.

During field work activities at PIE, an emphasis will be placed on safety, security, schedule, and impact to airfield operations. Nathan will facilitate a pre-field work briefing with PIE, Michael Baker, affected stakeholders, and the subconsultant field crew managers before starting all field work activities which will include:

- Work location and scope of work
- · Schedule and time limitations
- Aircraft operational restrictions
- Aircraft operating schedules and busy periods
- Safety around aircraft
- Security considerations
- Vehicle Identification and lighting

- Temporary flagging, painting, and staking
- Multi-firm field crew coordination and sequencing
- Protection of pavements and facilities
- Air Traffic Control Tower Communication/Coordination
- Personal Protective Equipment (PPE)
- Engineer site visit sequencing
- Utility locates
- FOD, litter, and smoking restrictions

MOBILE LIDAR AND SURVEY

To minimize field time and impact to Airport operations, Michael Baker is proposing mobile LiDAR



to map the

topography of the existing site. There is also an opportunity for PIE to recognize significant savings by mapping more of the airfield or the entire airfield as part of this project. This significantly differentiates Michael Baker from the competition. We have successfully performed mobile LiDAR for several airfield projects across the country including:

- 2019 The entire Airfield at Space Coast Regional Airport (TIX)
- 2020-21 The entire Airfield at Atlanta Hartsfield International Airport (ATL)
- 2015 The North Airfield Improvements project at



- Cleveland Hopkins International Airport (CLE)
- 2018 Runway Blisters at Baltimore/Washington International Airport (BWI)
- 2015 Concourse DY RON Parking Apron at Baltimore / Washington International Airport (BWI)

As the project area increases, the benefit-cost ratio of mobile LiDAR increases dramatically, and mobile LiDAR will almost always be less disruptive to airport operations than conventional survey



methods. Time savings to PIE would be realized for this project alone at a similar cost compared to conventional survey and cost savings can be significant if PIE would like to survey more areas simultaneously.



Mobile LiDAR will quickly and accurately map the topography of the airfield. The LiDAR points will be tied to survey control established (or already established) by Echo using conventional

survey methods. This will ensure accurate geospatial reference to the proper horizontal and vertical datums. Echo will also use conventional survey methods to supplement the LiDAR to locate drainage pipe invert elevations and subsurface utility locations and depths.

HIGH-RESOLUTION IMAGING

A significant benefit of mobile LiDAR is the ability to

incidentally capture and process high-resolution images of the airfield at little or no additional cost.

This is accomplished using 6 – 5MP cameras. The images are processed with very little manpower and integrated into a web-based platform that functions like Google Street View accessible from desktop and mobile devices, making it readily accessible to PIE staff. However, the capabilities of this platform far exceed that of Google Street View, including both horizontal and

vertical distance measuring capability.

PIE will realize more benefits again after construction.

The as-built survey requirements can be removed from the construction contract and included in Michael Baker's construction administration services. Mobile LiDAR and supplemental survey can be performed after construction to accurately document as-built conditions and collect highresolution images of the final constructed product. This produces the added benefit of eliminating the possibility of biased payement elevations and smoothness measurements from an as-built survey performed by the contractor. When the subsequent Airco Taxiways project is completed, mobile LiDAR can be done again to as built that project and collect high-resolution images of the entire airfield at once. This will provide PIE with an up-to-date desktop view of the entire airfield. PIE staff can then evaluate airfield pavement surfaces, view and measure sign panels, measure airfield light spacing, and measure pavement geometrics and slopes from the comfort of their office without impacting airport operations. Michael Baker's **Stephen Clancy** has an in-depth understanding of this platform and can train PIE on the program.

DESKTOP REVIEW OF EXISTING CONDITIONS

Michael Baker has already begun a desktop review existing as-built plans, drainage permits and documents, and existing geotechnical data and will complete this effort during the data collection phase. **Mike** will lead the review of future plans near the project as shown on the current Master Plan. This will ensure that our design gels with future adjacent infrastructure. Our team of engineers will review existing plans, details, and technical specifications to ensure we have a complete understanding of existing conditions.





GEOTECHNICAL INVESTIGATION

MC2 will perform the geotechnical investigation. This will include coring the existing pavements to determine the suitability and quality of those materials available for reuse. The cores will also confirm the overall pavement structure depths to accurately estimate earthwork. Samples may be taken of the stockpiles on airport property, including the stockpiles near the center of the airfield, to determine the suitability of that material for use as structural fill and/ or topsoil to backfill areas where pavement demolition is proposed. MC2 will prepare a soils report documenting their findings and laboratory results which will be included in the overall Engineer's Report for the project. The report will provide the results of all field testing, boring logs, and laboratory results. The report will also include soil-related recommendations and discuss the viability of, and best approaches for, reusing existing pavement materials.

SUBSURFACE UTILITY ENGINEERING

Echo will perform subsurface utility engineering (SUE) to horizontally and vertically locate existing underground utilities that may be impacted by the project. This will include existing underground drainage and utilities within the Cargo Apron area, edge lighting infrastructure along the closed runway, and NAVAID and airfield cables within the footprint of proposed Taxiway A4. Echo will also be surveying the utility locates they perform which will result in speed, economy, and accuracy.

ENGINEERS' FIELD VISITS

After the surveys and geotechnical investigations are complete and draft documentation has been delivered, Michael Baker, Landis Evans, Ohmega, and Bluewing will visit the site to review existing site conditions. These reviews will include PIE staff and other relevant stakeholders. It is important that our professionals see the site in person before beginning design work, Nathan and Tom (Michael Baker) will review existing airfield pavements, gate access points, haul routes, soils, underground utility locations, aircraft taxi routes, and Allegiant push-back operations and runup locations. Paul (Michael Baker) and Bruce (Landis) will review the existing drainage infrastructure. Mark Morley (Ohmega) will visit the site to review the newly constructed lighting vault, existing airfield lighting and signage, existing underground electrical and NAVAID cables, and existing apron high-mast lighting and associated underground electrical wiring. Sarah (Bluewing) will conduct any wildlife survey and review the site for potential wildlife attractants in the existing or proposed conditions. The site visits will allow our team of professionals to check and supplement the data obtained from the field investigations and familiarize themselves with the site before beginning design work.

Having LiDAR images may reduce the number of site visits required.

KEYS TO PROJECT SUCCESS

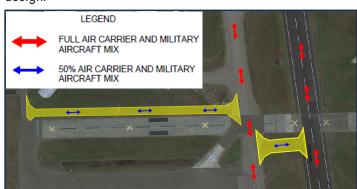
MINIMIZING CONSTRUCTION COST

This project presents many opportunities to save on construction costs and implement environmentally friendly construction processes. Our Team has identified several ways to do so. As we know, most of the costs of this project will be in airfield pavement construction and earthwork. Therefore, we have identified four (4) ways to greatly reduce construction costs within those work trades:

- · Distribute the aircraft fleet mix
- · Implement the "User Defined" Layer
- Reuse existing pavement materials and soil
- Reduce Hauling

DISTRIBUTING THE AIRCRAFT FLEET MIX

The pavement structures for Runway 18-36 and Taxiway A may exceed the structures that will be required for Taxiways C and A4. That is simply because the short-term taxi operations on Taxiways C and A4 will be significantly less than the runway and Taxiway A. **Mike** will review the master plan update and pull data from the FAA's Traffic Flow Management Count System (TFMSC) database to develop an accurate, reduced fleet mix expected to use those taxiways. This will result in less construction materials and labor and reduce construction duration. We do acknowledge that the Taxiway C pavement will be used more when the terminal is expanded and we will account for that in our pavement design.



THE "USER DEFINED" LAYER

A new version of the FAA pavement design Advisory Circular (150/5320-6G) was released on June 7, 2021. Also, a new version of the FAARFIELD pavement design software was released on June 8, 2021, to accompany the new circular. The new standard and software will be used to design the new pavements. Our team member Dr. Mohammad Bazzaz, PhD, PE (MC2) played a key role in the development of this standard. He provided Technical support for the Airport Technology Research and Development (ATRD) Program at



National Airport Pavement Test Facility (NAPTF) and National Airport Pavement and Materials Research Center (NAPMRC).

Like the old versions, the new standards allow for the use of a "User Defined" layer to represent a stabilized subgrade. Constructing a 12-inch stabilized subgrade is common practice used on highway and airfield projects in Florida because sandy, unstable subgrades are common. The stabilized subgrade provides a solid working platform to support construction equipment, avoid constant reworking of the subgrade, and facilitates better compaction of the base course above. Providing a stabilized subgrade usually reduces the layer thicknesses of the more expensive

overlying layers and reduces the quantity of excavation required, both of which will reduce costs. Additionally, minimizing the need to rework the subgrade resulting from damage from construction equipment saves time during construction.

The adjacent graphics show two pavement design scenarios to demonstrate how our approach will significantly reduce pavement **construction costs.** The top option shows a conventional pavement design for 50% of the Runway 18-36 fleet mix without a stabilized subgrade layer. The bottom option shows a pavement design that includes a "User Defined" layer to represent a stabilized subgrade and is designed for 50% of the Runway 18-36 fleet mix. The value of 50% is a rough estimate of the fleet mix expected for Taxiways C and A4.

A more accurate fleet mix distribution will be determined during design.

REUSING PAVEMENT MATERIALS

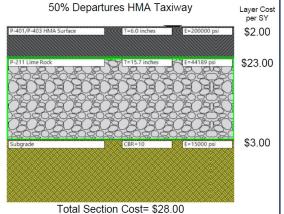
There is great opportunity to reduce construction cost and realize environmental benefits on this project by reusing demolished paving materials. Savings will come primarily from reducing the amount of material purchased from offsite and reduced hauling. Our approach includes a large reduction in hauling and the associated reduction in carbon emissions. Reducing hauling will also:

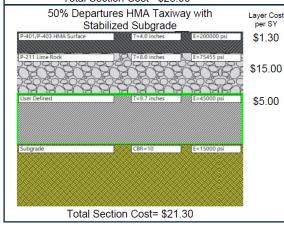
- Reduce impact to aircraft taxi operations
- Reduce the potential for FOD
- Reduce impact to the airport SIDA access gates, and

 Reduce damage to airfield pavements and airport landside roadways.

We have contacted a local crushing company and confirmed that this project is a good candidate for crushing concrete onsite for reuse. The crushed concrete can be used as a base course material for the new taxiways and/or cargo apron. The crushing company has estimated that at least 5,000 tons of crushed concrete can be generated from this project. This will result in about a 50% cost savings in material and trucking costs associated with pavement base course construction with savings on the order of \$100,000. The crushing company has mobilized crushers

onsite for several airport projects including Tampa International Airport, Jacksonville Naval Air Station, and Sebring Regional Airport (SEF) to name a few. Earlier in his career, Nathan served as the fulltime onsite engineer (RPR) for the reconstruction of Runway 18-36 at SEF where the entire concrete runway was crushed and reused as base material for the new asphalt runway. The mobile crusher was near the active crosswind runway and dust and FOD were never a concern. It is likely the mobile crusher can be erected close to the project site, even inside the airfield fence. This would further reduce construction costs and further minimize impact to the airfield security gates. Michael Baker will work with PIE to determine the best site for a crushing operation that is outside helicopter and aircraft protection surfaces.







A significant amount of asphalt millings and base course materials will also be generated from this project through the demolition of the decommissioned runway. The asphalt millings and the limerock or shell material are both good candidates to be reused to stabilized the subgrade. This will further increase cost savings when implementing the "User Defined" layer approach previously discussed.



FULL-DEPTH RECLAMATION (FDR)

A modified version of FDR may also be a viable option for this project in lieu of stabilizing the subgrade. The FDR process involves pulverizing the entire existing pavement structure to create a stabilized base course. The cutting head penetrates completely through the existing asphalt, base, and subbase layers. The resulting material would be excavated and relocated to the new taxiway footprint then the bonding additives would be applied, followed by a second mixing pass in the new location. Finally, the resulting base course would be compacted and shaped.

The modified FDR approach may be simpler to construct but will complicate quality control and assurance testing. FDR will produce a less consistent base course than the stabilized subgrade option. Another disadvantage of FDR is that it reduces the ability to reuse the crushed concrete available onsite as a base course.

Robust in-situ testing must be performed for FDR to come up with a proposed design using the in-place material. The performance of the planned subbase depends on the variability of the in-place material and its behavior after it is mixed with additives. Controlling the depth of milling/reclamation may be an issue in addition to a limited operating width. Potential contamination of the asphalt layer with base material may be an issue depending on final design. Depending on the type of recycling agent, moisture control and management may be a challenge considering the unpredictability of summertime weather in Florida. Furthermore, the number of local contractors that can perform FDR is limited which may increase cost.

Our team will present to PIE all the pros and cons of FDR vs. stabilized subgrade and make recommendations so that PIE can decide on the preferred approach.

ENVISION SUSTAINABILITY

We have included our Envision Sustainability Professional **Mackenna Perkins** on this project team to guide in the sustainability of this project through repurposing paving



Michael Baker has been involved in multiple projects at ATL (Hartsfield-Jackson International Airport) pursuing Envision certifications, including the most recent Taxiway Pavement Replacement 2019 project that achieved a Silver Award.

materials and airfield lighting equipment. Michael Baker has been on the front line of innovation and critical thinking to improve the sustainability of projects as well as the cost and impact to the airports we serve. Examples of this include repurposing demolished pavement materials, reducing hauling operations and emissions impact, and turning over old airfield lighting fixtures to Airport maintenance for use as spares.

BACKFILLING DEMOLISHED PAVEMENT

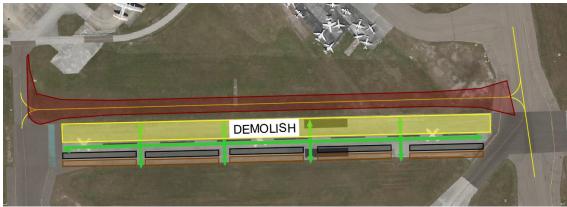
As the decommissioned runway pavement is being removed, a significant amount of structural fill, topsoil, and sod will be required to fill the holes. We believe this material may be fully available onsite. We agree that the Cargo Apron portion should be constructed in Phase 1 because the new pavement structure will likely be deeper than the existing structure which will generate excess material. If we confirm that is true, milling and base course excavation can be accomplished on the decommissioned runway concurrent to or before the Cargo Apron demolition. Then the excess material generated from the apron reconstruction can be used to begin filling the hole from the closed runway. Note that a portion of the runway should be protected to maintain a construction haul route to the east end of the project at Taxiway A4 and provide space to stockpile additional materials.

STOCKPILE AND HAULING LOGISTICS

Stockpile placement and hauling logistics are critical to maximizing the benefit of material reuse. The goal is to minimize haul distance and avoid hauling materials in or out of the airfield security gates. We have thought through the logistics and developed a solution to execute this approach.

- The northern half of the runway can be removed early in Phase 1 or delayed until Phase 2 if excess material from the apron is insignificant.
- 2 During the runway demolition, asphalt millings and base course material can be placed along the edge of the runway in linear stockpiles. Gaps in the linear stockpile will be placed periodically to allow easy access between Taxiway C and the stockpiles.
- A haul route will be maintained in an east-west orientation to provide full access the Taxiway C and A4 work areas.
- Excess soil for the apron reconstruction and the Taxiway C excavations can be hauled directly to the runway and the hole immediately filled and sodded.
- Once the pavement box has been excavated for Taxiway C, the millings and/or excavated base course can be moved north and spread over the subgrade and mixed to create the stabilized subgrade layer.





- 6 Because mixing subgrade takes time, stabilizing the subgrade is not proposed for Taxiway A4 as that work will require the closure of Runway 18-36. However, the material generated from the runway demolition can be simply placed as a subbase course below Taxiway A4, followed by a crushed concrete base course.
- A full-length portion of the old runway will be maintained until the need for a haul route is diminished, demolishing the final portion from east to west.
- 8 Any remaining material can be used to fill the remaining hole from the runway demolition, followed by topsoil and sod. Fill material may also be available from the existing stockpile near the center of the airfield. However, this material may not be as attractive for reuse because it requires crossing the runway.

MAINTAINING AIRPORT OPERATIONS

We fully support PIE in that "airports are for airplanes". We know that maintaining airport operations and safety is a key to project success.

The Michael Baker Team will begin coordinating construction phasing with PIE Staff and stakeholders during scoping and at the start of the 30% design phase. Frequent engagement will be maintained through milestone design meetings and intermediate meetings as needed to ensure all stakeholders are agreeable to the phasing approach and its resulting impact to airfield pavements. Any potential change to phasing or airport operations will be coordinated prior making a design change. We will begin our approach to phasing by considering:

- The limits of construction with airport operations impacts in mind.
- Construction costs, construction duration, and hauling.
- Specifying a requirement for back-up concrete and asphalt plants.
- Additional watering to prevent dust and FOD
- Air carrier busy months, busy days of the week, and busy hours.
- Months that are higher risk for instrument approaches

- Impact to airfield security gates and the possible need for temporary security gates
- The number of Allegiant gates that can be displaced, depending on the season.
- The location of Allegiant runup activities and the potential for dust during construction.
- The potential for using rapid cure concrete to minimize the cargo ramp construction time.

PHASING AT ATL

Our pavement specialist Quintin Watkins has implemented Maturity Meters at ATL and has served as a Committee Panel Member on the ACRP Project 09-18 - Rapid Airfield Concrete Pavement Replacement Guidance.

The cure time can be decreased if high early strength PCC is specifed. At ATL, one of our innovative ideas is the use of Maturity Meters in the placed concrete. Maturity Meters allow the design and testing team to know the exact strength of the in-place concrete without needing to wait for beam breaks. This method allows the contractor to drill dowels and cut joints much sooner than usual, decreasing construction time and airfeld impacts. We will evaluate the use of Maturity Meters, as well as other innovative options to expedite construction without sacrificing quality.

PHASE 0 – SUBMITTALS AND PROCUREMENT PHASE

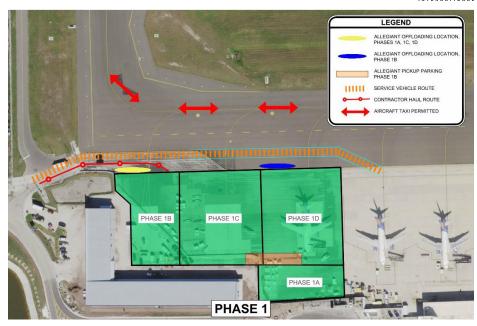
Due to the urgent nature of Phase 1 (Cargo Apron), we suggest a procurement phase to allow for the approval of all materials and responses to RFIs prior to beginning construction. This will eliminate the risk of submittal approvals and RFI responses delaying construction. Long lead items such as airfield lighting equipment can also be ordered at the start of Phase 0 to ensure those items are available for the later phases. The intent is that mobilization for Phase 1 occurs before the end of Phase 0.

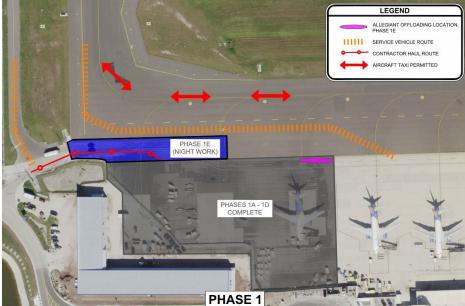


PHASE 1 — CARGO APRON RECONSTRUCTION

During Phase 1, our approach is to minimize impact to Allegiant's operations and maintain airport service vehicle access through Gates P and Q. In speaking with Allegiant, the following operations must be accommodated during Phase 1.

- Protect the new asphalt and slotted drains near the building. This will provide a route for forklift access to offload deliveries. Maintain a tractortrailer offloading area.
- Maintain at least two of the three positions available at all times for aircraft parking. Maintaining only one parking position available may also be an option to facilitate faster and cheaper construction. Position 12 is the most important of the three because passengers sometimes deboard there.
- Significant space should be maintained during construction for Allegiant's equipment and several service trucks.
- Minimizing dust during concrete demolition will be important.
 Equipment in Allegiant's building such as air condition condensers and ice machines are sensitive to dust.
 Aircraft parts are normally covered when offloaded and won't typically be a concern.





Subphase 1A is shown as a separate phase to ensure that space is continuously maintained for Allegiant's equipment throughout construction. The ordering of the phases shown can be changed to best suite PIE and Allegiant's needs, except that Phase 1E should be saved for last to minimize hauling on the new asphalt.

Subphase 1E includes resurfacing or reconstructing the old asphalt pavement north of the apron area. Some of this work will block airside access through Gate P. However, this work can be performed in a single night when the need for airport vehicle access through Gate P is at a minimum. During this phase, vehicular access to the terminal apron is still available if

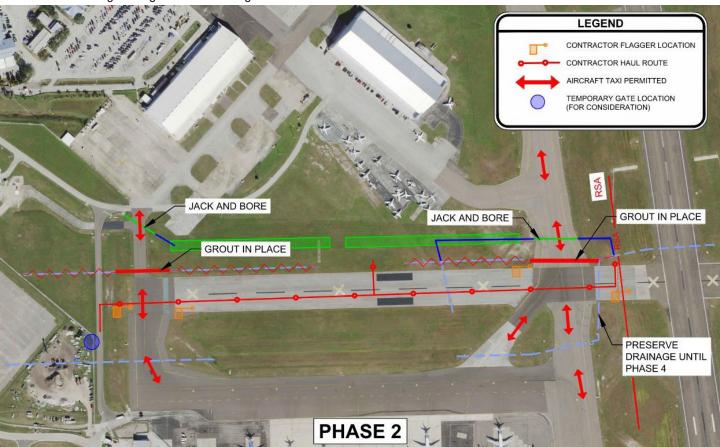
needed as shown. This would require radio contact with ground control to yield to taxiing aircraft or hovering helicopters.

As previously mentioned, Phase 1 may generate excess soil if the new concrete pavement structure is deeper than the existing pavement. Depending on the quantity of excess material, it may be beneficial to include demolition of a portion of the runway in Phase 1. That would provide a location for the excess soil from the apron area to be placed and avoid hauling it offsite and bringing in fill material later.



PHASE 2 – DRAINAGE ADJUSTMENTS

Drainage will need to be maintained throughout construction to avoid flooding and deter wildlife. Therefore, it may be prudent to relocate most of the impacted drainage infrastructure as a separate Phase 2. More detail is provided for drainage work later in the "Drainage Design and Permitting" section.

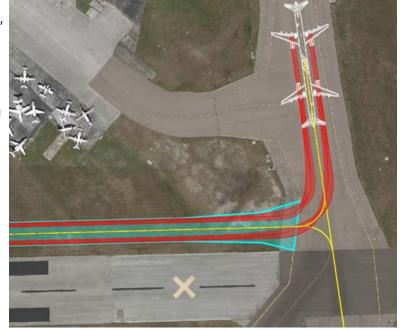


PHASE 3 — TAXIWAY C

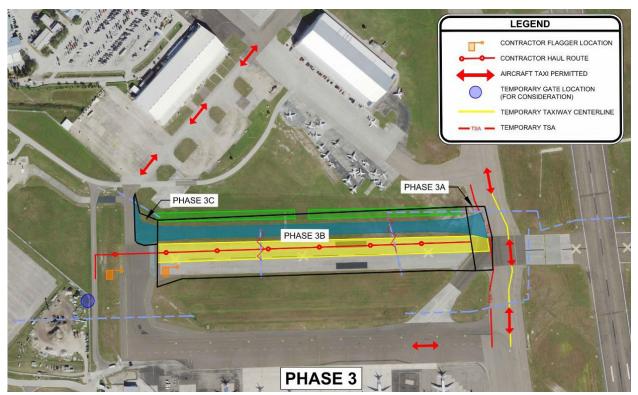
It is recommended that Taxiway C (Phase 3) be constructed prior to Taxiway A4. This is to provide a "bypass" taxi route so that Taxiway A can be closed during a portion of Phase 4 (Taxiway A4) if required. We know that a few ADG IV aircraft still operate

at PIE. However, the ADG III geometry proposed for Taxiway C will accommodate Boeing 757 taxi movements, typically maintaining the minimum recommended taxiway edge safety margin, and never tracking outside the pavement edge as illustrated here. In the rare case that a larger aircraft requires access through Taxiway A and cannot use Taxiway C, a special accommodation can be made for back-taxi on Runway 18-36 via Taxiway A to A3 to A4 then back to Taxiway A.

Phase 3 will include the construction of Taxiway C and the demolition of the northern portion of the old runway. This phase will also include the demolition of the remaining accessible portions of drainage piping, as well as PAPIs, and airfield electrical. Phase 3 can be divided into three subphases to minimize impact to operations for work inside taxiway safety areas. Subphase 3B will not impact airfield operations.







For **Subphases 3A, 3B, and 3C**, work could be performed up to the Taxiway A and B edges and construction equipment pulled back for aircraft to pass. Advisory Circular 150/5370-2G – Operational Safety on Airports During Construction states that:

- "... where the section of taxiway is indispensable for aircraft movement, open trenches or excavations may be permitted in the TSA while the taxiway is open to aircraft operations, subject to the following restrictions:
 - a. Taxiing speed is limited to 10 mph.
 - b. Appropriate NOTAMs are issued.
 - c. Marking and lighting meeting the provisions of paragraphs 2.18 and 2.20 are implemented.
 - d. Low mass, low-profile lighted barricades are installed.
 - e. Appropriate temporary orange construction signs are installed."

Following these guidelines would simplify phasing logistics for the contractor, resulting in lower cost and may also improve safety. Separate subphases are shown for these work areas to minimize the duration of construction alongside the taxiways. As previously mentioned, a portion of the old runway should be maintained until the end of the project to provide a haul route until construction is complete.

During Subphase 3A, it may be prudent to jog the Taxiway A centerline east by making use of the excess taxiway width in this area. This may allow all the work in subphase 3A to be performed without closing Taxiway A. Temporarily reducing the taxiway to a category III for Subphase 3A would provide even further wingtip separation from the jogged centerline.

Subphase 3C will be inside the wingspan of the Coast Guard's C-130s which use Taxiway B. However, the typical taxi route for these aircraft is north to access the airfield. This taxi route should be used exclusively by the C-130s during Subphase 3C. The US Coast Guard helicopters normally use the northern terminus of Taxiway B as Landing Zone and for pilot training "hover checks". These helicopter operations will likely remain unchanged until the need for closure of Taxiway Bravo.

However, Subphase 3C can be performed during nighttime hours and/or equipment pulled back to allow helicopter operations. We know the helicopter operations create powerful downdrafts that can generate dust and FOD during construction. The Coast Guard also runs-up the C-130s near this work area, creating the same concern. We will include special provisions to the drawings to apply water when soils are exposed and assist PIE in discussing other runup options with the Coast Guard.





Michael Baker has successfully protected exposed soils from rotor wash as part of the recent TLH South Apron Rehabilitation project. The project included the reconstruction of new UH-60 Blackhawk helicopter pads. Rotor wash from hovering Blackhawks had removed all turf and severely eroded the soil near those pads. The solution was to place staked turf reinforcement mating (TRM) overlaid with sod with special turn down details. The area was opened to traffic directly after this installation and a hearty stand of turf has been in place since then. We also have included RWDI on our team in case a more complex wind evaluation is needed.

PHASE 4 - TAXIWAY A4

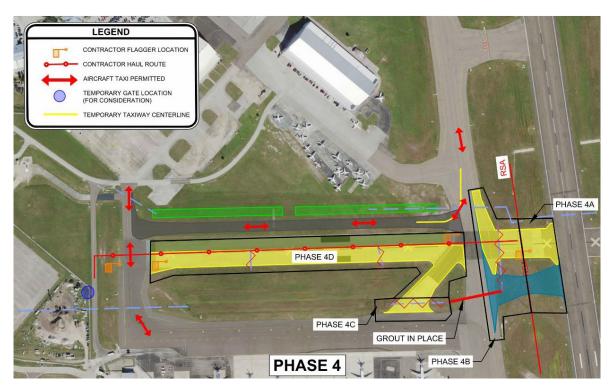
Phase 4 will include all work between Taxiway A and Runway 18-36 and the demolition of the south half of the old runway and taxiway D. Runway 18-36 will be closed when drop-offs and construction equipment are inside the runway safety area (RSA). Therefore, the taxiway A4 work should be split into subphases 4A and 4B to minimize the closure of Runway 18-36. Runway 4-22 will be used by all aircraft when Runway 18-36 is closed. Runway 4-22 is short and does not have an Instrument Landing System (ILS) so its use should be kept to a minimum for air carrier traffic.

Subphase 4A will include the work inside the Runway 18-36 safety area (RSA). There are two options for this work. The first is to close the runway for the entire duration and work 24-hours until that portion of the work is complete. This would reduce the overall closure time and likely reduce construction cost. The second is to close the runway nightly and reopen it daily during this phase. This would increase the overall duration of the phase but may reduce the number of air carrier operations required on Runway 4-22. The time of year that this Subphase occurs may dictate which approach is used. In either case, to expedite work, a stabilized subgrade is not suggested in Phase 4A but rather a thicker crushed concrete or limerock base course.

Subphase 4B will include the work between the eastern edge of Taxiway A and the RSA. If Subphase 4A, Option 2 is selected, Subphase 4B could be performed during daytime hours while Subphase 4A is performed at night. Like Subphases 3A and 3C, it may be possible to work up to or close to the taxiway edge without closing the taxiway during Phase 4B. Reconstruction all the way across a short segment of Taxiway A may also be required in this phase if the geotechnical investigation finds an inadequate pavement structure in that area. Having Taxiway C in place before this phase will help facilitate this work.

Subphase 4C will include the demolition, backfilling and sodding of Taxiway D and demolition of the culvert below it. The taxiway T centerline can be jogged south temporarily to avoid impacting Taxiway T for Subphase 4C.

Subphase 4D is slated as the final phase to remove the remaining runway pavement that was needed as a haul route. This work will happen from east to west. Millings from the runway and/or soil can be used to fill the hole from the pavement box followed by topsoil and sod. Soil will be obtained from the excavation of the Taxiway C pavement box and supplemented with soil from the airfield stockpiles if needed.





PROJECT DESIGN ELEMENTS

We are keenly aware of the existing project sites and associated design elements. Michael Baker was involved in the airfield design of the Apron Hardstand Phase 2 project that connects directly to the project site and Tom was the engineer of record for the Taxiway Rehabilitation Phase 2 project which is also connected to this project. We have also performed site visits and desktop reviews of plans, details, and drainage permits to fully understand existing conditions. Some of the design challenges we are aware of, including descriptions and potential solutions, are provided below. These design elements are separated into the two project sites.

CARGO APRON DESIGN ELEMENTS

Design Element 1: Lead in Line Locations

The lead-in line for Position 14 is too close to the Allegiant building to allow for the appropriate GSE clearances. This will affect the location of Positions 12-14.

Solution: Our airfield designer Shawn Sentelle will use AviPlan to model aircraft taxi and parking positions. The AviPlan software provides the wingtip and landing gear separations to ensure adequate separations are being maintained. This will allow for optimal lead-in line separation. A preliminary check indicates ample space is available to accommodate the current number of parking positions and shift Position 14 east. Also, Position 11 is currently marked for ADG 4 and should be changed to ADG 3 which will provide additional space to shift Positions 12 – 14 east.

Design Element 2: Space for Equipment

Allegiant requires significant space to store their equipment and park vehicles on the apron. That space needs to be maintained throughout construction.

Solution: Our phasing approach includes an additional subphase to maintain space for equipment.

Design Element 3: Concrete Shrinkage Cracking

The existing concrete hardstands at Positions 12 - 14 contain shrinkage cracking.

This is occurs when the concrete surface is exposed to wind and hot air temperatures directly after placement. Hot temperatures also



increase the rate of heat increase in the concrete mix as its curing which increases the risk of shrinkage cracking.

Solution: It will be important to prevent this from happening to the new concrete pavement. A pre-paving conference will be required in the construction documents to include Michael Baker, PIE, the RPR, and the Contractor.

The conference will include a discussion on the use of curing materials and the need to cool the concrete mix prior to delivery to the site. The standard FAA specifications includes hot weather placement requirements. We will clearly communicate these requirements to the RPR and Contractor.

Design Element 4: Asphalt Shoving

Historically, shoving has occurred where aircraft turn onto the apron areas from Taxiways T and A. This is caused by an inadequate bond between asphalt layers and/or a structurally inadequate asphalt mix.

Solution: The bonding of asphalt layers is accomplished by tack coat. The appropriate tack coat application rate will be detailed in the specifications based on the type of surface to which its applied. Milled surfaces required more tack coat than new asphalt surfaces. Tack coat application rates and inspection requirements will be discussed in the pre-paving conference to ensure proper application. The asphalt mix will be specified with the right size and type of aggregate, including fractured faces and flat and elongated properties as well as the appropriate level of compaction and lift thicknesses to ensure a structurally adequate asphalt layer.

Design Element 5: Dust from Demolition Activities

Wind and jet blown dust may be generated as concrete is excavated after it has been broken. Exposed base course and soil are also prone to dust generation. Dust can damage mechanical equipment at the Allegiant facility, create FOD for taxing aircraft, and impair air navigation.

Solution: We will use AviPlan to model breakaway jet blast wind velocities and orientations to determine if jet blast has a potential for generating dust. We will review specifications as they relate to dust control and modify them as needed to suit the project. We will specify requirements for maintaining a water truck onsite and specify watering requirements required to be in place during concrete demolition and while soils are exposed. Stop work will be required if Contractor is unable to control dust.

Design Element 6: Heavy and Light-Duty Concrete Pavements

Both heavy and light duty concrete will be required for the Cargo Apron. This will require different slab sizes and coordination with the phasing plan.

Solution: Like what was done for the Hardstand Expansion Phase 2 project, our design will include an expansion joint to separate the differing concrete thicknesses and differing joint spacing. This will prevent horizontal reflective cracking from occurring across that interface. Also, the Phase 1 subphase limits will be adjusted so that heavy-duty and light-duty pavements can be constructed fully within their own subphase to simplify construction.



Design Element 7: Concrete-to-Asphalt Transition

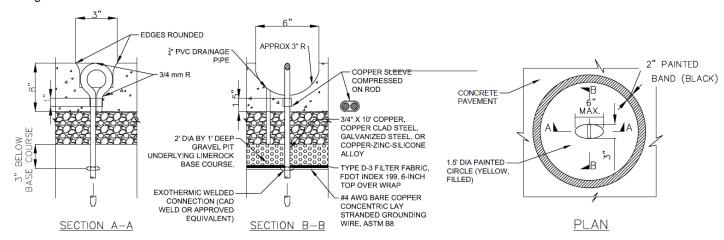
There is a potential for differential settlement where asphalt interfaces with concrete where the asphalt surface may drop below the concrete surface over time under heavy loading.

We will review the Hardstand Expansion Phase 2 plans to determine the load-transfer joint in place along the apron joint east of Position 12. We will determine if this design is appropriate to maintain for this project.

Design Element 8: Static Grounding Lugs

Allegiant has requested static grounding connections on the new Cargo Apron to accommodate their fueling operations.

Solution: Our team has detailed static grounding lugs for a recent project and will implement that design on this project. Placing drains in the recessed surface will be considered.



Design Element 9: High-Mast Flood Lighting

Allegiant has indicated that there is currently inadequate flood lighting for Positions 13 and 14. We have also observed that at least one existing high-mast light does not match the newer LED fixtures along the remaining terminal façade.

Solution: Through the design of the Ticketing A Baggage Handling Expansion project at PIE, we have on file the shop drawings for the existing LED lights and light pole specifications. We will use this information to specify new and replacement light fixtures and poles





ensure the equipment matches. Our electrical engineers will perform a photometric analysis to ensure adequate lighting is provided for the Allegiant apron.

Design Element 10: Ponding and NFPA Gradients for Fueling Operations

Ponding has been observed in at least one location on the existing Cargo Apron. It also appears that inadequate slopes may exist coming off the Allegiant building to meet NFPA requirements for fueling operations.

Solution: Static or mobile LiDAR will be used in this area.

This will provide a very dense point cloud and allow our designers to pinpoint these areas. Ponding can be easily corrected with the new grading design. It is important to maintain slopes greater than 0.7% to minimize the risk of ponding due to construction tolerances. To meet the NFPA slope requirement, we will first try to maintain the existing structure top elevations



but may adjust structure top elevations if needed.

Design Element 11: Drainage Structure Orientation

At least one existing drainage structure was observed to be rotated 45-degrees from parallel to concrete joints. This may cause a challenge in optimizing joint locations to minimize the potential for cracking.

Solution: We will first confirm the structure was designed to support the expected aircraft loading. If so, we will look to adjust the new concrete joint layouts to align with the structure corners. Another option may be to rotate the structure top by sawing cutting and doweling in a new top to align its edges with the concrete joints. Other options include placing extra rebar in the concrete slab around this structure to mitigate for cracking or removing and replacing the entire structure.



Design Element 12: Protecting Existing Drainage Pipe

Drainage pipe exists below the existing apron. The new pavement structure will likely be deeper than the existing structure and pavement. This may pose a risk to damaging the pipe or the pipe may require adjustment.



Solution: Clearly locate the pipe on the plans to reduce the risk of damage. Lower the pipe if the downstream pipe elevations will allow for it or change the pipe to elliptical pipe or a double barrel culvert.

TAXIWAY CAND A4 DESIGN ELEMENTS

Design Element 1: Taxiway Geometrics and Pavement Demolition Extents

Taxiway A widens at its intersection with the decommissioned runway and includes taxiway edge lights that follow those tapers.

Solution: It would be appropriate to reduce the width of Taxiway A to the typical standard width through this intersection by designing



the intersection pavement geometry based off the proposed taxiway centerlines. This will require additional pavement work and airfield lighting adjustments. However, building Taxiway C in a prior phase will allow for a short closure of Taxiway A if needed to complete this work with much less impact to airport operations. A new version of Advisory Circular 150/5300-13B is expected to be released in the fall of this year and will be used to design the new taxiway geometry.

Design Element 2: Inadequate Pavement Structure at the Taxiway A - Runway 9-27 Intersection

As previously alluded to, we are aware that the pavement on Taxiway A may be structurally inadequate where the decommissioned runway crosses it.

Solution: MC2 will cut pavement cores in this area to determine the existing pavement structure and investigate nearby soils to estimate subgrade CBR value. **Nathan and Tom** will review available as-built plans for this area and conduct a site inspection to determine if any load-related pavement distresses are present. If found to be deficient, the

pavement will be reconstructed using a fast and economical process like FDR to improve the pavement structure.

Design Element 3: Drainage Infrastructure Obstructions and Culvert Crossings

New Taxiway C will require the relocation of existing drainage piping to avoid abandoning or maintaining functional pipes beneath the taxiway. New culverts may need to be constructed across existing taxiways to maintain current drainage patterns. This has the potential to further impact taxiway closures as compared to pavement construction alone.

Solution: This will likely require jack and boring beneath Taxiways A and B. However, a separate phase is proposed for this work that will not impact airfield operations. This will expedite subsequent phases by largely eliminating drainage work in phases that impact taxiway operations. This will also reduce the risk of delaying the more timesensitive phases.

Design Element 4: Airfield Sign Changes

Adding Taxiway A4 will require changing the designations for Taxiways A4 – A7 to Taxiways A5 – A8. Existing signs will also be impacted by the footprint of new Taxiway A4.

Solution: New sign foundations will be constructed at Taxiway A4 and existing signs impacted by A4 will be relocated. To minimize cost, all existing sign panels can be shifted north by one connector.



Design Element 5: Control of Airfield Lighting Circuits

There are currently minimal lighting circuits available to control taxiway edge lights. Most, if not all, taxiway edge lights west of Taxiway A are on the single Taxiway A circuit. Therefore, all of those lights must be either on or off unless fixtures are physically disconnected from the circuit.

Solution: Nathan and our electrical engineers Sunil (Michael Baker) and Mark (Ohmega) will coordinate with PIE to determine the preferred control approach for the Taxiway C lighting system. The new vault has been designed by AECOM and construction should be complete prior to this project. Mark will visit the site and review the newly constructed vault and associated as-built plans. If separate control is desired, we could place this taxiway on the Taxiway A regulator and use a circuit selector switch for separate control of Taxiway C. If capacity is not available on



the existing regulator or this is not a desired approach, we could provide a new regulator in the vault for TW C. In either case, a review of the infrastructure and the pathways would be required to confirm the homerun routing. In addition, changes to the ALCMS system will be required. If separate control is not desired and the TW A regulator has capacity, the new lights could be placed on this regulator. If capacity is not available, replacement of the existing regulator is an option.

Design Element 6: Impact to FAA NAVAIDs and Airfield Lighting Circuits

Critical FAA NAVAIDs and airfield lighting circuits existing with the Taxiway A4 work area. Some may fall inside the

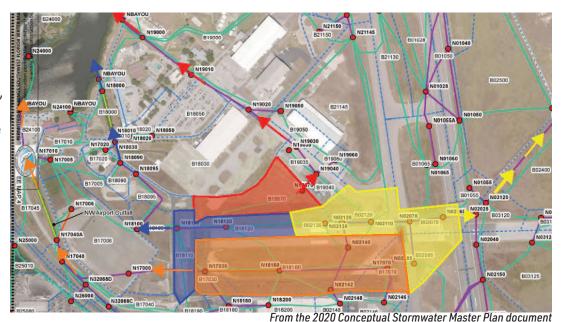
proposed Taxiway A4 footprint.

Solution: Sunil and Mark will perform a site visit and review existing as-built drawings to assess existing conditions. We will coordinate with PIE engineering and maintenance staff to determine: if any of the facilities are inactive or abandoned, if the facilities can remain in place, if electrical boxes and conduits require strengthening, or if facilities should be relocated to allow for easy access for PIE and FAA maintenance staff. Relocating these utilities would be accomplished by first installing new infrastructure then demolishing the conflicting infrastructure to minimize downtimes.

DRAINAGE DESIGN AND PERMITTING

We will provide PIE with drainage approach that is cost and schedule-conscious, allows for safe airfield operations, and is compatible with long term development plans. The stormwater design will require permits from Pinellas County and SWFWMD. Our team has spent considerable time to understand both the existing and proposed drainage patterns and bring design solutions to this project to save PIE dollars, provide

impervious area.



long-term flexibility, and expedited permit approvals. The project may require water quality treatment and attenuation. We will evaluate attenuation at the airport boundaries for the 25-yr / 24-hr storm and protection for the 100-yr / 24-hr event for SWFWMD. The conveyance systems will be designed for the 5-year storm using a peak rate discharge approach per FAA Advisory Circular 150/5320-5D – Airport Drainage Design. The amount of water quality treatment required will be dictated by Pinellas County criteria which requires a reduction of 55% and 80% for Nitrogen and Phosphorus, respectively. The project is located within the Cross Bayou 100-yr riverine floodplain but is not likely to impact the floodplain due to a reduction in

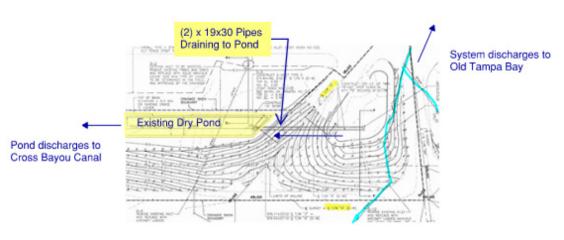
Our team has reviewed historical permits and plans including the updated Stormwater Master Plan Report as well as the as-built plans for the existing dry pond north of Taxiway T (SWFWMD Permit No. 1557.05) constructed in 1994. We have also met with SWFWMD reviewer, Robin McGill, PE.

The project area has at least three outfalls and three separate conveyance systems outfalling to the Cross Bayou Canal (orange, blue, and red) and one conveyance system discharging to Old Tampa Bay (yellow). A modified figure from the SWMP is shown below which depicts the basins and associated outfalls impacted by this product.

A significant finding in our review is an apparent discrepancy between the 1994 as-built plans for the Taxiway A relocation and the SWMP ICPR computer model. The permitted plans show the triangular grassed area east of Taxiway D connected only to the existing pond to the west with a double elliptical pipe and bubbler; however, the SWMP and ICPR model shows this area as also connected to an east side conveyance pipe leading to Old Tampa Bay. This apparent discrepancy is show on the next page.

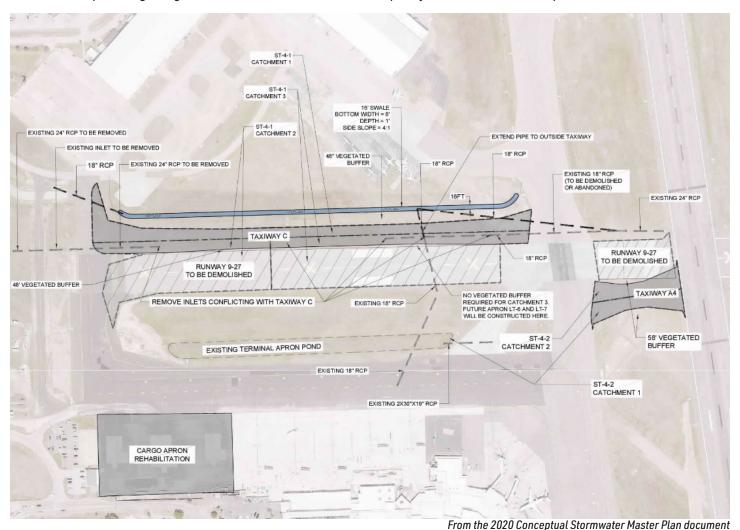


The connectivity of this system is important as it defines the allowable predevelopment discharge rates for the two outfalls; therefore, we will obtain additional survey during pre-design to reconcile this discrepancy and update the existing Cross Bayou watershed model and/or drainage infrastructure as needed. Having identified



this issue will ensure the timely approval of the permits and an accurate stormwater model.

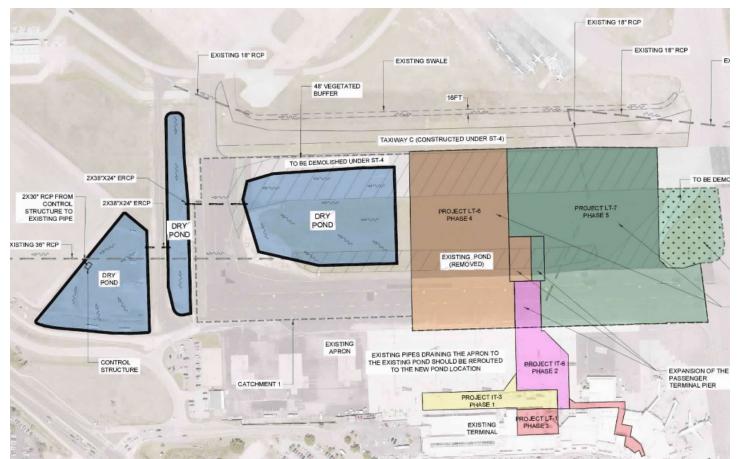
The SWMP also provides a conceptual approach for this stand-alone project which includes maintaining the existing pond to the south and providing a vegetative buffer to the north for water quality treatment. This concept is shown below.



However, the vegetated buffer

may not provide significant treatment for the north side of the Taxiway above what was provided in the pre-development condition which would make it difficult to satisfy Pinellas County criteria. An alternative to the vegetated buffer would be the overland flow approach provided in the Statewide Airport Stormwater Manual, however, this approach would likely require costly underdrain and soil amendments. It may be more beneficial to the airport to construct all or a portion of Terminal Ponds 1, 2 and 3 (shown below) as part of this project.





From the 2020 Conceptual Stormwater Master Plan document

The soil excavated from the ponds could be used to backfill the holes remaining from the runway demolition. This will lower project costs and provide additional water quality treatment. The runoff from the terminal apron (Basins 18180, 18190 and 18200) will be conveyed to the terminal ponds for water quality treatment which will be credited with the permitting agencies SWFWMD and Pinellas County for future development. Our team is prepared to initiate a ledger system with these agencies to document the amount of proposed impervious area and water quality treatment credits for future development. The ledger system would be like what SRQ uses with SWFWMD. Our drainage lead, Paul Snead, has used this system to manage the master stormwater plan for other airports, including Flagler County Airport.

We will evaluate the existing pipes under the apron reconstruction area to determine if they need to be lined or replaced prior to rehabilitating the pavement. Our research indicates the pipes are 18-inch RCP with about 2.5 feet of cover. We will ensure the design life of these pipes is consistent with the design life of the new pavement.

Bruce McArthur (Landis) will lead our team in coordinating with Pinellas County. Pinellas County will require a PreApplication meeting with Development Review Services Manager Gene Crosson. County staff for each department will
typically include Randy Ayers, Engineering, Cliff Still, Environmental, Michael Schoderbock, Planning and Zoning,
Jenelle Ostrowski, Utilities and Paul Miselis, Public Works. During this meeting, all aspects of the development will be
discussed, and criteria established. We will then submit plans and calculations for a Site Development Permit. Since this
application requires modifications to the Cross Bayou watershed model, we expect this review to be undertaken by Mr. Paul
Miselis, P.E. Operations & Watershed Planning Section Manager. During his review we will work closely with Mr. Miselis to see
that all his questions and concerns are addressed prior to the submittal. As with the County, we will set up a Pre-Application
meeting with the SWFWMD to discuss the project and make sure all issues have been addressed prior to the submittal.



PAVEMENT MARKINGS

We have partnered with Sightline for this project to guide our team in the proper design and application of airfield pavement markings.

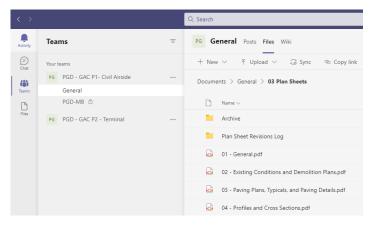
Donna (Sightline) recently conducted an airfield marking



assessment for PIE and understands its operations and has made recommendations for pavement marking application processes and maintenance. Paint build up is a typical concern due to the habit of airports painting over paint year after year. Standard waterborne paint can bond to the asphalt better than the asphalt does to itself. When paint builds up, it cracks the asphalt, resulting in spalls and chipping. It is recommended to remove 85 percent of the paint and apply a new coat of TT-P-1952F, Type III. The Type III paint contains a different resin than its Type I or II cousins, and flexes with the asphalt better. Although the FAA refers to the material as a "hi-build" paint, it can be applied at a normal thickness of 15 wet mils. Having this specialized knowledge on our team will ensure there is a focus placed on the application of quality airfield pavement marking that does not comprise the integrity of the pavement surfaces.

CONSTRUCTION SERVICES

Michael Baker's role during construction will be another key to project success. It is the culmination of the planning and design efforts and can either validate the effort or reveal shortcomings. As such, we place a high importance on succeeding in the construction phase. We are committed to providing clear and accurate construction documents to promote a successful and timely construction project. We are also committed to providing quick and accurate responses and design adjustments during construction as to not slow construction. Currently, Nathan and Mark



are using Microsoft Teams to streamline our support of construction for the new General Aviation Center at PGD.

This process has proven superior to traditional methods of organizing drawing changes and submittal and RFI responses. Teams and other similar web-based platforms make documents readily available in real time to external parties and field staff by use of a smart phone, tablet, or laptop.

Our team is fully capable of performing all construction services required for this project. However, we know that PIE contracts with a separate firm to perform RPR and quality assurance testing services. We will foster a teaming mentality with the selected RPR firm and work together to quickly solve problems to maintain the construction schedule.

QUALITY CONTROL

Nathan will prepare a Project Management Plan (PMP) for this project, which will include the Project Specific Quality Management Plan (PSQMP). The most important step in quality is the first step – the origination of a document. We have developed Design Checklists and a PSQMP to cover a large range of airport projects, including this project. Our designers, engineers, and other document originators are required to review and adhere to these design checklists when preparing deliverables so that all design elements have been considered and applicable items are included and checked. Our design checklists are updated with each PSOMP.

We will also implement our company-wide quality control procedure for this project which will include:

- Placing and Quality Control review stamp on each deliverable after production is complete and the originator of the document has checked the work.
- Following the step-by-step review process provided on the stamp, this includes the QC reviewer checking that all the requested changes have been made
- An independent Quality Assurance (QA) review of the QC process to ensure it was done correctly
- Completing the Quality Verification Checklist form (signed by the Project Manager and QA Reviewer)

Tracy, Kevin, and/or Quintin will be assigned to this project for technical consultation and to perform quality control reviews of all project deliverables. This will include plans, project manuals, technical specifications, reports, and cost estimates. PIE can rest assured that all deliverables will have been through a tested quality control and quality assurance process to meet the highest level of quality.

We will require our subconsultant partners to provide the same level of quality control as Michael Baker. They will furnish their quality control documentation to Michael Baker for all milestone deliverables for our review.

Michael Baker International Quality Assurance / Quality Control PHASE SUBMITTAL REVIEW					
ACTION	INITIAL	DATE			
RP / ORIGINATOR PRODUCTION CHECKING COMPLETE (READY FOR SUBMITTAL REVIEW / QC)					
QC REVIEWER COLORS: RED / GREEN (highlighted) / RED (includes comments)					
RP / ORIGINATOR (RESPONSE / CONCUR) COLORS: BLUE RESPONSE / CHECK (✓)					
CHANGES INCORPORATED / MADE COLORS: (YELLOW OVER RED)					
CHANGES BACKCHECKED / VERIFIED COLORS: GREEN / GREEN CHECK (✓):					
QUALITY ASSURANCE: GREEN CIRCLE (Followed Process) RED CIRCLE (Did Not Follow Process)					
Note: If Necessary, Second (Brown) and Third (Orange Will Follow Above QC Process.) Generation	Markups			

COST ESTIMATING AND COST CONTROL

Our team considers accuracy in cost estimating a very important aspect of developing construction documents. Errors in quantity calculations are a common cause of construction claims. We will use our proven process for documenting and checking quantity calculations to ensure accurate cost estimates are provided. The Michael Baker National Aviation practice uses a standard spreadsheet to calculation quantities. This has allowed professionals across the practice to become familiar with the same process to perform and check calculations. The spreadsheet provides a centralized location for calculations which can be easily checked. In paving, for example, a reviewer can quickly see if the number of lifts, and which project area or phase a quantity is associated with. The reviewer can also check the accuracy of conversion factors and the general methodology. Formulas for all the standard FAA pay items are prepopulated

to reduce the chance of error. Associating each item with a technical specification allows for accurate transfer to the final cost estimate and ensures each item is accounted for.

Recently, construction material availability and costs have been volatile. We will involve local contractors and review recent local bid prices to provide every available advantage to accurately estimate construction costs. We have built those relationships with local contractors over

time. We will maintain a keen awareness of project costs for all assignments from project inception through construction and engage our specialized construction cost estimating lead, Jeff Weiss, to check our cost estimates based on local market conditions.

The ability to influence project cost is highest at the beginning of the project and lessens as the project progresses through construction. Once construction begins, there is a shift of focus from cost savings to cost control.

During scoping, we will take a prudent approach to "right-size" our design staff. This will ensure PIE receives maximize value from our services. Three (3) of our four key team members are in Tampa and the fourth (4th) is within reasonable driving range. This will minimize travel expenses

During design, we will carefully review cost applicable sections of the specifications. The basis of payment and method of measurements sections of agency-standard technical specifications can be modified to improve cost control. Examples of this include stipulating non-payment for unauthorized work that extends beyond plan limits and ensuring well-coordinated front end and technical specifications. Additionally, measurement for payment can be changed to reduce the potential for variability. For example, volumetric or tonnage pay items can be changed to per area with a specified depth such as asphalt.

As a standard, Michael Baker continuously seeks value engineering opportunities during the design process. We do not allocate separate tasks for value engineering in our professional fees as, we believe this is inherent to our basic services. We consistently identify value engineering opportunities during design. An example of this is described in the "User Defined Layer" section provided earlier in this proposal.

COST SAVINGS

DESIGN INITIATION

· Understanding PIE's goals

· Well-defined scope of

Appropriate staffing

services

DESIGN

Production efficiencies

- Accuracy
- Constructability
- · Economy of scale
- Phasing
- Accurate construction quantities
- · Clear, coordinated construction documents
- Measurement and payment



CONSTRUCTION

COST CONTROL

- Timely responses
- Close construction monitoring
- · Progress meetings





CONSTRUCTION CLAIMS

Like you, we want to avoid claims from Contractors for time extensions and additional costs, especially unexpected claims that come near the end of a project. We are committed to being a strong advocate of PIE during construction, treating your money as if it were ours. Our team will implement measures to minimize the likelihood of a construction claim on this project and to mitigate for them if they do occur.

PREVENTING CONSTRUCTION CLAIMS

- Schedule Tracking: The key is to ensure the contract substantial completion date is clearly stated and documented in the meeting minutes for every progress meeting. It is also important to require a schedule update from the contractor monthly and to review that schedule against the baseline. Any deviations should be noted and corrective action plans identified, documented and tracked.
- Quality Control: Performing quality control reviews on all our deliverables to minimize errors and omissions in the construction plans and quantities.
- Change Management: Documenting all design changes and issuing those changes quickly and clearly without other versions of conflicting information.
- Technical Submittal Schedule: The RPR needs to know the submittals the Engineer expects to receive before beginning the various construction elements to avoid a misinterpretation of the construction plans. The contractor, RPR, and designer should agree to the required submittals before starting physical construction.
- Construction Phasing Conference: We recommend
 at least one meeting with PIE staff, RPR, Engineer,
 Stakeholders, and Contractor to discuss construction
 phasing at the beginning of the project and if any
 changes are proposed by the Contractor based on
 means and methods.
- Prepaving Conferences: Prepaving conferences are
 a must for both concrete and asphalt to ensure the
 constructed product meets the intent of the engineer.
 An example of this is the contractor changing the width
 or direction of concrete paving lanes and the associated
 change in joint types.
- Meeting Minutes: Accurately recording meeting minutes and distributing quickly for review and awareness. We are committed to issuing meeting minutes with 3 business days.
- Written Documentation: Disagreements are always settled by the written documentation for a project. This includes the contract, plans, specifications, meeting minutes and correspondence. By providing direction

and decisions in writing, backed by the appropriate contractual requirements, most claims can be prevented and resolved.

SCHEDULE

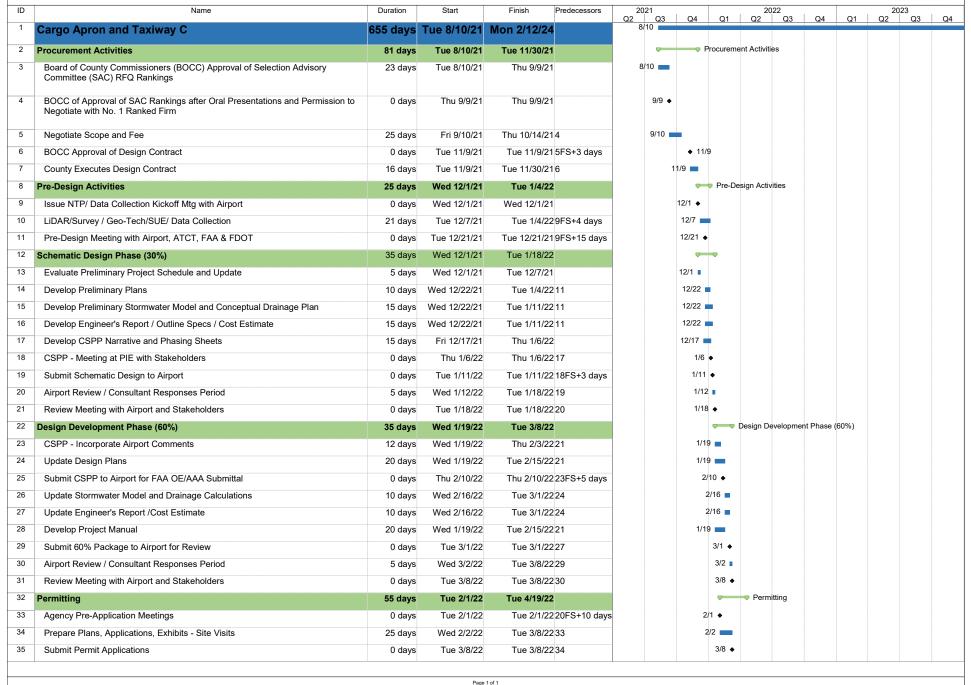
Our Team has developed a Preliminary Project Schedule that positions the County/PIE to maximize funding opportunities with the FDOT and FAA should Congress move forward with the pending Infrastructure Bill. We have found that Airports with "Shovel-Ready" projects are more likely to obtain funding from discretionary or stimulus specific grants. We assisted PIE by having a multiple element terminal improvements package ready to go within 30-days to qualify for American Recovery and Reinvestment Act (ARRA) funding. Our expedited schedule includes the appropriate time to allow for the County's standard purchasing procedures and review periods. However, the proposed schedule will not compromise the Quality of our deliverables. The schedule includes our typical Quality Control/Quality Assurance review processes and durations for each design milestone. Our approach will be to obtain as much historical information and record drawings on the project as early as possible and begin the design prior to the design contract being executed. We will be prepared to schedule field work crews on-stie as soon as the design contract is executed. Our Team will work on the 30% Design Submittal concurrently with the Field Work in order to shorten the overall design duration. Furthermore, by using Mobile LiDAR we will save additional time since it allows for the capture and processing of the data in a much shorter time period than traditional survey.



Pinellas County St. Pete-Clearwater International Airport

PROJECT SCHEDULE Cargo Apron & Taxiway C







Pinellas County St. Pete-Clearwater International Airport

PROJECT SCHEDULE Cargo Apron & Taxiway C



D	Name	Duration	Start	Finish Predecessors	2021 Q2 Q3	Q4 Q1 Q2	22 2023 Q3
6	Agency Review / Consultant Responses Period	30 days	Wed 3/9/22	Tue 4/19/22 35		3/9	
7	Permit Issued	0 days	Tue 4/19/22	Tue 4/19/22 36		4/19 ◆	
Co	onstruction Documents (90%)	30 days	Wed 3/9/22	Tue 4/19/22		Constr	uction Documents (90%)
9 1	Update Construction Drawings	15 days	Wed 3/9/22	Tue 3/29/22 31		3/9	
0 1	Update Engineer's Report /Cost Estimate	5 days	Wed 3/30/22	Tue 4/5/22 39		3/30	
1	Update Project Manual	5 days	Wed 3/30/22	Tue 4/5/22 39		3/30	
2	Incorporate CSPP into Project Manual	0 days	Tue 4/5/22	Tue 4/5/22 41		4/5 ♦	
13 ;	Submit 90% Package to Airport for Review	5 days	Wed 4/6/22	Tue 4/12/22 42		4/6	
4 :	Submit Draft Construction Documents to Pinellas County Purchasing	0 days	Tue 4/12/22	Tue 4/12/22 43		4/12 ◆	
15	Airport Review / Consultant Responses Period	5 days	Wed 4/13/22	Tue 4/19/22 44		4/13 ■	
16	Review Meeting with Airport and Stakeholders	0 days	Tue 4/19/22	Tue 4/19/22 45		4/19 ◆	
7 Fi	inal Construction Documents (100%)	10 days	Wed 4/20/22	Tue 5/3/22		▼▼ Final	Construction Documents (100%)
18	Finalize Construction Documents	10 days	Wed 4/20/22	Tue 5/3/22 46		4/20 ■	
19	Finalize Engineer's Report/Cost Estimate	10 days	Wed 4/20/22	Tue 5/3/22 46		4/20	
50 I	Finalize Project Manual	10 days	Wed 4/20/22	Tue 5/3/22 46		4/20 ■	
51 ;	Submit Final Plans/Project Manual to Airport & Pinellas County Purchasing	0 days	Tue 5/3/22	Tue 5/3/22 48		5/3 ♦	
52 Bi	idding Phase	53 days	Tue 5/3/22	Thu 7/14/22		-	•
53 I	FAA-FDOT Authorize Advertisement for Bids	0 days	Tue 5/3/22	Tue 5/3/22 51		5/3 ♦	
54	Advertise for Bids	0 days	Thu 5/5/22	Thu 5/5/22 51FS+2 days		5/5 ♦	
55 I	Pre-Bid Meeting - Invite FAA-FDOT	0 days	Wed 5/18/22	Wed 5/18/22 54FS+9 days		5/18 ♦	
56	Bidding / Addendum Period	24 days	Fri 5/6/22	Wed 6/8/22 54		5/6	
57	Bid Opening	0 days	Wed 6/8/22	Wed 6/8/22 56		6/8 ◆	
58	Bid Review / Bid Tabs / Recommendation of Award	5 days	Thu 6/9/22	Wed 6/15/22 57		6/9 ■	
59	Airport Submits Award Recommendation	0 days	Wed 6/15/22	Wed 6/15/22 58		6/15 ♦	
60 I	Board Approves Recommendation of Award and FAA Grant Application	0 days	Thu 7/14/22	Thu 7/14/22 59FS+21 days		7/14	•
61 Co	onstruction	227 days	Thu 7/14/22	Fri 5/26/23			Construction
32 I	Board Approves and Executes Construction Contract	0 days	Thu 7/14/22	Thu 7/14/22		7/14	•
63 (Conformed Contract Documents Issued	10 days	Thu 7/14/22	Wed 7/27/22 62		7/14	•
64 I	Pre-Construction Meeting - Invite FAA-FDOT	0 days	Wed 7/27/22	Wed 7/27/22 63		7/27	•
35 I	Notice to Proceed Issued to Contractor	0 days	Wed 8/3/22	Wed 8/3/22 64FS+5 days		8/	3 ◆
66	Construction Period	192 days	Thu 8/4/22	Fri 4/28/23 65		8	4
67 ;	Substantial Completion	0 days	Fri 4/28/23	Fri 4/28/23 66			4/28 ◆
88	Punch List	20 days	Mon 5/1/23	Fri 5/26/23 67			5/1
59 I	Final Inspection	0 days	Fri 5/26/23	Fri 5/26/23 68			5/26 ♦
70 CI	loseout	20 days	Mon 5/29/23	Fri 6/23/23			Closeou
71	Prepare Closeout	20 days	Mon 5/29/23	Fri 6/23/23 69			5/29
72 ;	Submit Closeout Documents	0 days	Fri 6/23/23	Fri 6/23/23 71			6/23 ◆