

Statement of Qualifications

Airport Security System Improvements Project - Professional Engineering Services

RFP No. 167-0339-NC (SS)



Submitted to:



Submitted by:



August 3, 2017

Introduction

Letter of Interest,
Specific Professional
Services to be Offered,
and Table of Contents



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)



AVCON, INC.
ENGINEERS & PLANNERS

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Orlando, Florida 32822
Phone: (407) 599-1122
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August 3, 2017

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

**Reference: Airport Security System Improvements Project – Professional Engineering Services
RFP No. 167-0339-NC (SS)**

To Whom It May Concern:

AVCON, INC. is pleased to submit herewith one (1) original and three (3) electronic copies of our Statement of Qualifications to provide Professional Engineering Services for Airport Security System Improvements at St. Pete-Clearwater International Airport. As our experience, including specific project experience at PIE, and current proposal demonstrates, we have a strong understanding of the scope of work and the County's need for this improvements project, and we are committed to performing all of our tasks in a timely and cost-effective manner, bringing the best possible services to the County and the Airport.

AVCON has thoroughly reviewed the Request for Proposals package and is fully aware of the professional services required to accomplish the various projects anticipated at the Airport. Services under this contract may include, but will not be limited to Electrical, Environmental, Hazardous Waste, HVAC, Mechanical, Structural, Mapping/GIS Services, Planning Services, Architectural and Construction Management Services. **AVCON, in conjunction with our entire team, is fully capable and committed to provide these services to the County.**

AVCON is pleased to offer the services and support of more than 90 professional, technical and administrative staff with expertise in all elements of airport planning, consulting and design. AVCON's in-house staff includes full capabilities in electrical and low-voltage systems, engineering utilities coordination and design; mechanical, fire protection and plumbing design; structural design; and a full array of support services necessary to successfully accomplish any tasks under this agreement, while maintaining the team's commitment to meeting or exceeding all your needs and expectations. Additionally, AVCON is pleased to include the services of two highly qualified subconsultant firms. These firms include:

- **Ross & Baruzzini, Inc.:** Ross & Baruzzini is the largest and most experienced provider of airport information technology and security consulting and engineering services in the US aviation market. They provide a wide range of aviation services including operations strategic planning; systems design and engineering; systems installation, testing and commission; and program management support services providing staff augmentation to support all aspects of airport operations. For this assignment Ross & Baruzzini will support the team with Security / Access Control / Low Voltage Systems management and design.
- **HSA Golden, Inc.:** HSA Golden is a Florida-licensed firm in both engineering and geology. Their core competencies include contamination assessment and remediation, and environmental litigation support. HSA Golden has provided these services on AVCON projects at Orlando International Airport and Marco Island Airport. HSA will be responsible for any required Environmental and Hazardous Waste services on this Airport Security Systems Improvements project.

Based on the prominence of this role, AVCON has dedicated one of our Senior Design Professionals, **Mr. Zemp Pepper, P.E.**, to serve as Project Manager. Mr. Pepper has over 33 years of experience and his focus is in the design, analysis, and layout of building electrical (including low voltage), HVAC, plumbing and fire protection for a wide variety of aviation, public, commercial, and industrial aviation projects. Mr. Pepper will be supported by **Mr. Sandeep Singh**, Principal-in-Charge, an authorized representative of the firm. Mr. Singh has over 32 years of experience in nearly every aspect of airport design and planning for general aviation and air carrier airports. He is well versed in current airport design and planning standards and has a keen appreciation of the issues confronting both air carrier and general aviation facilities.

Both Mr. Pepper and Mr. Singh have an in depth understanding of PIE's facilities, staff and operations having served on several recent projects together at PIE, and both are eager to continue to support the Airport's program into the future.

Mr. Pepper will act as the primary point of contact for the AVCON Team. He will report directly to the County's designated personnel and will operate out of both AVCON's Corporate Headquarters located at: **5555 E. Michigan Street, Suite 200, Orlando, Florida 32822** and AVCON's Clearwater Project Office located at: **4500 140th Avenue, Suite E105, Clearwater, FL 33762**. He can also be reached by phone at **(407) 599-1122 (Office)** or **(407) 733-8846 (Cell)** or via email at ZPepper@avconinc.com.

AVCON is uniquely qualified to support Pinellas County and the St. Pete-Clearwater International Airport staff. Some highlights of these qualifications include:

- AVCON, INC., and our Project Manager have recent and relevant project experience in both building and perimeter security, current building experience at PIE and are familiar with Airport Staff and the requirements for professional engineering services
- AVCON's entire team has a wealth of prior local, relevant experience eliminating any "learning curve";
- AVCON, INC. is a full-service firm with all engineering disciplines in-house. The relatively small cohesive team is well-suited to the cost-conscious approach needed for this Project.
- AVCON brings the demonstrated responsiveness of a smaller firm coupled with world-class capabilities of a large specialty sub-consultant firm to this important contract.
- AVCON, INC. brings extensive, relevant, and award-winning project experience and excellent relationships with the FAA-ADO and FDOT District 7 personnel for project-related discussions, including funding eligibility.
- AVCON, INC. is certified by the State of Florida Board of Professional Engineers, **certified as a Disadvantaged Business Enterprise (DBE) under the Unified Certification Program, certified as a Minority Business Enterprise by the State of Florida Office of Supplier Diversity**, and pre-qualified by the Florida Department of Transportation in sixteen different planning and design work areas.
- **AVCON will do the best job, completing the project on time and within budget, and with quality you expect – our long and successful record of accomplishment speaks for itself.**

AVCON, INC. is the firm and team best suited for this Airport Security System Improvements project at the St. Pete-Clearwater International Airport. We look forward to the opportunity to continue to serve the County and the Airport and thank you in advance for your consideration in this important role.

Sincerely,

AVCON, INC.



Sandeep Singh, P.E.
President / Principal-in-Charge



Zemp Pepper, P.E.
Project Manager

Statement of Qualifications

Airport Security System Improvements Project –
 Professional Engineering Services
 RFP No. 167-0339-NC (SS)

INTRODUCTION

Specific Professional Services to be Offered

	AVCON	Ross & Baruzzini	HSA Golden
Discipline-Based Service			
Electrical	→		
Security / Access Control / Low Voltage Systems	→	→	
Environmental			→
Hazardous Waste			→
HVAC	→		
Mechanical	→		
Structural	→		
Mapping/GIS Services	→		
Planning Services	→		
Construction Management Services	→		
Architecture (Incidental)*		→	

* To enable any interior space modifications mentioned as a possibility in response to Question No. 11 in Addendum No. 1, dated July 26, 2017.

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Tab 1

Standard Form (SF) 330 - Part I & II

Tab 1



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Airport Security System Improvements Project – Professional Engineering Services, St. Pete-Clearwater International Airport, Pinellas County, Florida

2. PUBLIC NOTICE DATE
June 26, 2017

3. SOLICITATION OR PROJECT NUMBER
167-0339-NC (SS)

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE
Sandeep Singh, P.E., President / Principal-in-Charge

5. NAME OF FIRM
AVCON, INC.

6. TELEPHONE NUMBER
(407) 599-1122

7. FAX NUMBER
(407) 599-1133

8. E-MAIL ADDRESS
s_singh@avconinc.com

C. PROPOSED TEAM

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

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AVCON, INC. <input type="checkbox"/> CHECK IF BRANCH OFFICE	5555 E Michigan Street Suite 200 Orlando, FL 32822	Project Management, QA/QC, Security / Access Control / Low Voltage Systems, Electrical, HVAC, Mechanical, Structural, Planning, Mapping/GIS Services
b.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AVCON, INC. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4500 140th Avenue Suite E105 Clearwater, FL 33762	QA/QC, Construction Management
c.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ross & Baruzzini, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7200 NW 19th Street Suite 305 Miami, FL 33126	Security / Access Control / Low Voltage Systems
d.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ross & Baruzzini, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	6 South Old Orchard St. Louis, MO 63119	Security / Access Control / Low Voltage Systems, Architecture, QA/QC
e.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HSA Golden, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	11 Lake Gatlin Road Orland, FL 32806	Environmental, Hazardous Waste

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

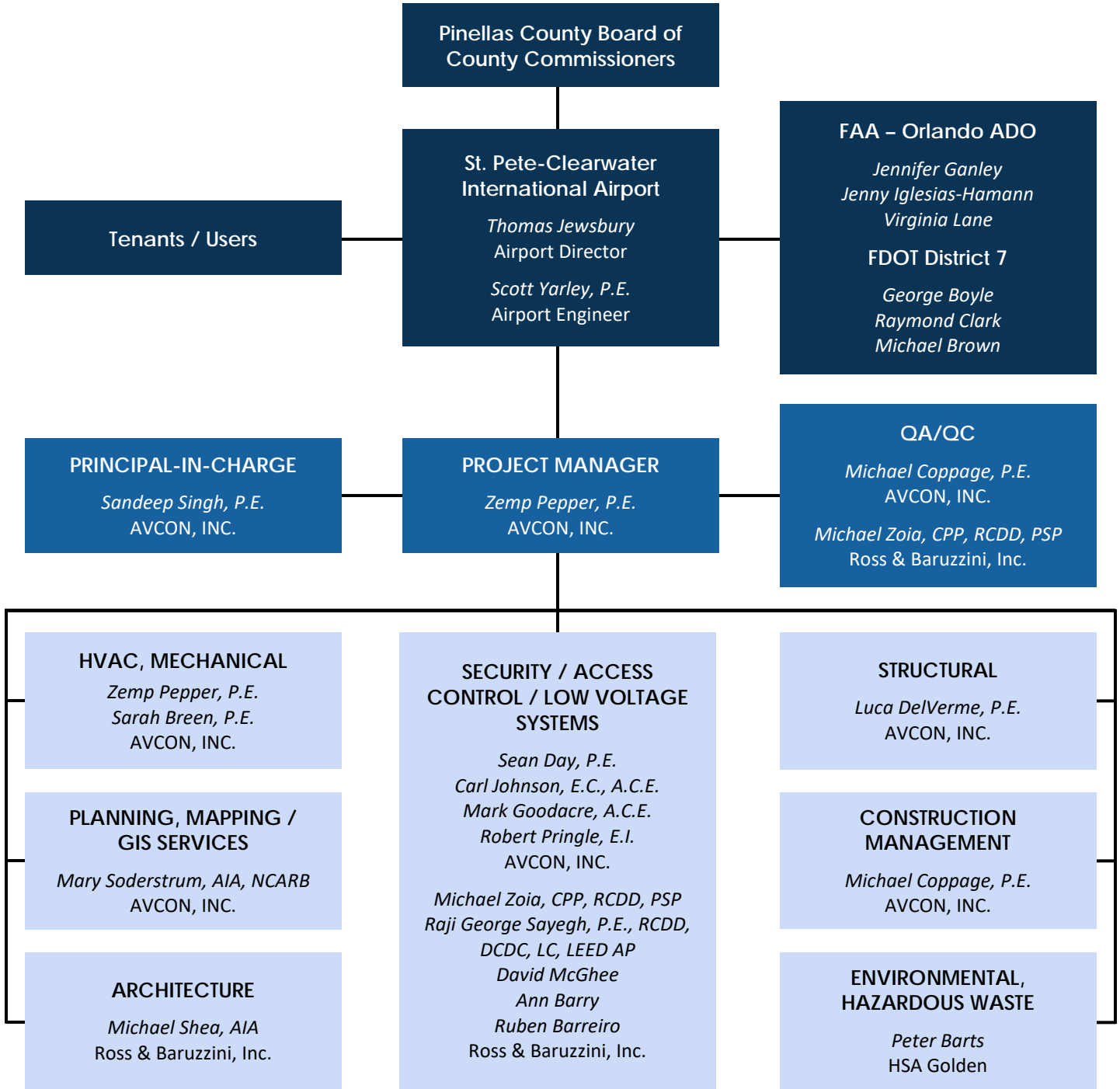
Attached

Statement of Qualifications

Airport Security System Improvements Project –
 Professional Engineering Services
 RFP No. 167-0339-NC (SS)

STANDARD FORM (SF) 330 – PART I & II

Organizational Chart of Proposed Team



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Zemp Pepper, P.E.	13. ROLE IN THIS CONTRACT Project Manager, Senior Mechanical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 33	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida			
16. EDUCATION (Degree and Specialization) B.S. Mechanical Engineering, 1983		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Pepper has 33 years of experience and his focus is in the design and analysis of all aspects of building engineering systems, HVAC, plumbing and fire protection for a wide variety of public, commercial, industrial, and aviation projects. Many of his recent projects were performed on a Revit platform.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a	South Terminal Complex, Phases II and III – RAC Parking Garage, Orlando International Airport, Orlando, FL	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON provided electrical and low voltage systems design for the new South Terminal Complex Parking Garage, a 6-level structure with a total of 2228 vehicle spaces. Electrical design included power distribution, emergency power, LED lighting, electric vehicle charging stations, and rental car interior design. Low voltage systems design included parking and guidance design, CCTV, access control, WiFi service, GPS service, and fire alarm. Zemp served as Project Manager.		
b	New Terminal Facility and Associated Improvements, Marco Island Executive Airport, Collier County, FL	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Fire protection design includes fire suppression systems such as automatic fire sprinkler protection, portable fire extinguishers, and water supply; and building fire alarm. Mechanical / HVAC design comprises cooling systems, heating systems, ventilation systems, HVAC distribution systems, and HVAC controls. Plumbing systems design consists of plumbing fixtures, DWV systems, domestic water distribution systems, and domestic water heating systems. Electrical design includes main building supply, electrical loads, lighting / day lighting, emergency power / generator, and grounding / lightning protection. Finally, telecommunication / security design entails telecommunication systems, building security and access systems, CCTV, and intercom / PA systems. Zemp served as Project Manager.		
c	Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (If Applicable) N/A – TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Zemp serves as Mechanical Engineer and leads the building engineering efforts.		
d	Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	PROFESSIONAL SERVICES 2015-2017	CONSTRUCTION (If Applicable) On-going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON provided design for the new Access Control System and Closed-Circuit Television security systems. The work included replacing outdated security systems as well as design of the new security systems for the terminal expansion. The camera system included stationary indoor and outdoor cameras as well as PTZ. Video system hardware and software is being upgraded to accommodate additional video storage. New technologies for License Plate Recognition and Exit Lane Security were incorporated into the video management system. Zemp served as Mechanical Engineer.		
e	Review of PBB PCA Specifications, St. Petersburg-Clearwater International Airport, Clearwater, FL	PROFESSIONAL SERVICES 2011-2012	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As Project Manager, Zemp reviewed specifications for the PBB PCA and modified them to better address the procurement. To increase competitiveness AVCON reviewed three separate manufacturers and included them as acceptable alternates for the project. Additionally, AVCON improved the warranty clauses and added detail to the specifications where pertinent. The specifications are based on serving a maximum sized "Narrow Body 757" aircraft under the ASHRAE 0.4% Design Conditions. The nominal PCA cooling capacity is 30-32 tons with 54-60 KW of electric heating. The ranges reflect the variation between the manufacturers. AVCON also included a spread sheet listing the three (3) manufacturers and applicable product data.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Sandeep Singh, P.E.	13. ROLE IN THIS CONTRACT Principal-in-Charge	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 25
15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> MBA, 1992; M.S. Structural Engineering, 1985; B.S. Civil Engineering, 1984		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Sandeep Singh, P.E., has served as President of AVCON since 1997, and continues his professional role as Principal-in-Charge or Senior Project Manager on a wide variety of airport and aviation projects for clients throughout Florida and the Southeast U.S. Mr. Singh has a Civil, Structural, and Electrical Engineering background and more than 32 years of experience in nearly every aspect of airport design and planning for General Aviation and Air Carrier Airports.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (If Applicable) N/A – TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Sandeep serves as Principal-in-Charge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Vehicle Checkpoint CCTV Additions, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014-2015	CONSTRUCTION (If Applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of construction and interface of new internet protocol (IP) closed circuit security cameras to the existing CCTV network at two vehicle security checkpoints. AVCON provided plans, details and specifications for the installation of several CCTV security cameras to record activities at the checkpoint inspection station. The cameras were designed to interface, using a hardened network switch with Power over Ethernet (POE) ports, to the airport's existing fiber optic network. Sandeep served as Principal-in-Charge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> South Terminal Complex, Phases II and III – RAC Parking Garage, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON provided electrical and low voltage systems design for the new South Terminal Complex Parking Garage, a 6-level structure with a total of 2228 vehicle spaces. Electrical design included power distribution, emergency power, LED lighting, electric vehicle charging stations, and rental car interior design. Low voltage systems design included parking and guidance design, CCTV, access control, Wifi service, GPS service, and fire alarm. Sandeep served as Principal-in-Charge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-2017	CONSTRUCTION (If Applicable) On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON provided design for the new Access Control System and Closed-Circuit Television security systems. The work included replacing outdated security systems as well as design of the new security systems for the terminal expansion. The camera system included stationary indoor and outdoor cameras as well as PTZ. Video system hardware and software is being upgraded to accommodate additional video storage. New technologies for License Plate Recognition and Exit Lane Security were incorporated into the video management system. Sandeep served as Principal-in-Charge.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> New Terminal Facility and Associated Improvements, Marco Island Executive Airport, Collier County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Fire protection design includes fire suppression systems such as automatic fire sprinkler protection, portable fire extinguishers, and water supply; and building fire alarm. Mechanical / HVAC design comprises cooling systems, heating systems, ventilation systems, HVAC distribution systems, and HVAC controls. Plumbing systems design consists of plumbing fixtures, DWV systems, domestic water distribution systems, and domestic water heating systems. Electrical design includes main building supply, electrical loads, lighting / day lighting, emergency power / generator, and grounding / lightning protection. Finally, telecommunication / security design entails telecommunication systems, building security and access systems, CCTV, and intercom / PA systems. Sandeep served as Principal-in-Charge.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Sean Day, P.E.	13. ROLE IN THIS CONTRACT Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Electrical Engineering, 2009		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Day is an experienced Electrical Engineer with problem solving and critical thinking skills coupled with excellent communication skills to contribute to complex design projects. He has over seven years of experience and has worked on large project teams to design forward thinking and efficient infrastructure to meet clients' present and future needs. His areas of expertise include PLC network design, cyber security, access control and CCTV, fiber optic design, radio and cellular communications, and construction oversight			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	2015-2017	On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON provided design for the new Access Control System and Closed-Circuit Television security systems. The work included replacing outdated security systems as well as design of the new security systems for the terminal expansion. The camera system included stationary indoor and outdoor cameras as well as PTZ. Video system hardware and software is being upgraded to accommodate additional video storage. New technologies for License Plate Recognition and Exit Lane Security were incorporated into the video management system. Sean served as Electrical Engineer.		
b	Terminal Improvements, Gainesville Regional Airport, Gainesville, FL	2017-On-going	N/A – TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The scope of work consists of evaluation of the CEP for expansion and the addition of air cooled chiller and pumps; evaluation of space heating hot water system and increasing capacity as well as the addition of a boiler; replacement of 2 air handlers; evaluation of the roof mounted air handlers RTU-1 and RTU-3 for sound considerations and possible relocation; confirming reuse of the electrical service and MSB; providing new power distribution, lighting, telecommunications and data in new gate area expansion as well as WiFi and GPS, and extending the existing systems; providing new VAV air handler and terminal boxes for gate expansion; evaluating existing emergency generator and considering replacement with larger generator or addition of second generator; providing new MEP for restroom renovations on sterile and non-sterile areas; providing replacement of all lighting fixtures in public spaces with LED fixtures and controls; extending existing fire alarm system to gate expansion area; extending existing public address system to gate expansion area; providing MEP for new gate counters in expansion area; and evaluation of the lightning protection system. Sean serves as Electrical Engineer.		
c	Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	2015-On-going	N/A – TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Sean serves as Electrical Engineer.		
d	Fuel Farm Update, Valkaria Airport, Brevard County, FL	2014-2016	On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of planning, design, bidding and construction phase services for the Fuel Farm update at Valkaria Airport, and included updating the existing fuel farm equipment and the construction of a new consolidated fuel dispensing station. The project also entailed the removal and disposal of the existing equipment that will not be reused. AVCON evaluated the condition of the existing equipment and provided recommendations for possible salvage and re-use. Sean served as Electrical Engineer.		
e	Access Control Modifications for 17 Facilities Along Airport AOA Border, Orlando Sanford International Airport, Sanford, FL	2017-On-going	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON is providing design, bidding and construction phase services to upgrade access control to the AOA through 17 tenant facilities along the AOA border. These upgrades include changing existing door cypher locks to a Best lock system, controlling roll-up doors with a Best Padlock, equipping SIDA doors with full access control using card readers, and adding CCTV cameras in areas where positive control does not exist. Sean serves as Electrical Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Carl Johnson II, E.C., A.C.E.	13. ROLE IN THIS CONTRACT Senior Electrical Designer	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida
--

16. EDUCATION <i>(Degree and Specialization)</i> A.S. Computer Integrated Manufacturing, 1993	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Electrical Contractor – FL ACE – Airfield Lighting Maintenance (AAAE)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Carl Johnson has 35 years of experience and his areas of expertise include planning, design, construction, and maintenance of electrical distribution systems. Mr. Johnson has participated in numerous forums and committees relating to airfield lighting, grounding, and lightning protection. He has an extensive knowledge of NFPA, NEC, FAA, and military standards, and he is a Principal Member of the NFPA 780 Technical Committee for Lightning Protection and Underwriters Laboratories Standards Technical Panel 96 which covers activity for UL 96, Standard for Lightning Protection Components, and UL 96A, Standard for Installation Requirements for Lightning Protection Systems.

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> New AOA Fast Access Gate, Gate E-50, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012-2014	CONSTRUCTION (If Applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project consisted of construction of a new Fast Access Vehicle Gate located east of the Airside Guard Post at Gate E-50 for enhanced rapid ingress and egress control to the AOA at Airside 2. The project also included enhancements to CCTV coverage at the Gate E-50 Checkpoint and Guard Post, and at the Gate E-31 Checkpoint and Guard Post. The CCTV coverage captured both ingress and egress vehicles, facial view of the drivers, and driver/vehicle interaction with the guard. Carl served as Senior Electrical Reviewer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

b	(1) TITLE AND LOCATION <i>(City and State)</i> Sunstate FBO Group III Aircraft Storage Hangar and Office, Kissimmee Gateway Airport, Kissimmee, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009-2013	CONSTRUCTION (If Applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of construction of 10,000 SF Group III Aircraft Storage Hangar and 6,000 SF Supporting Offices which included a pre-engineered metal building; main balcony; hangar catwalk and rear balcony; MEP and Fire Protection support systems; components, cladding, and glazing systems; access control systems; and complete site work. MEP engineering services included HVAC, plumbing, and electrical design services for power distribution, lighting, telephone/data systems, access control and security systems design, and fire alarm design. Carl served as Senior Electrical Designer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

c	(1) TITLE AND LOCATION <i>(City and State)</i> Security Fencing Phase III, Sebring Regional Airport, Sebring, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012-2016	CONSTRUCTION (If Applicable) 2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON was tasked with providing project coordination, final planning, engineering design, bidding phase assistance, and construction administration services for final development of the security fencing program. Key components of the system included computer hardware and software systems, gate controls, gate operators, security cameras, and related elements for a total of ten vehicular and six pedestrian gates of various dimensions and styles. Carl served as Senior Electrical Reviewer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

d	(1) TITLE AND LOCATION <i>(City and State)</i> Perimeter Fencing and Security Upgrades, Zephyrhills Municipal Airport, Zephyrhills, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013-2014	CONSTRUCTION (If Applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project included preparation of final documents, bidding and construction phase services in connection with additional perimeter fencing and gates, and new Closed-Circuit Television (CCTV) cameras to supplement the existing security surveillance system at the Zephyrhills Municipal Airport. The project consisted of project design, equipment selection and specifications, plans, and bid documents along with limited construction phase services to install additional fencing, access gates, and new CCTV cameras to cover the existing gates at the AOA fence line, as well as CCTV cameras to monitor the airfield. The work included required fencing/gate installation, in addition to electrical and communication installations and connections. Carl served as Senior Electrical Reviewer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

e	(1) TITLE AND LOCATION <i>(City and State)</i> Vehicle Checkpoint CCTV Additions, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014-2015	CONSTRUCTION (If Applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consisted of construction and interface of new internet protocol (IP) closed circuit security cameras to the existing CCTV network at two vehicle security checkpoints. AVCON provided plans, details and specifications for the installation of several CCTV security cameras to record activities at the checkpoint inspection station. The cameras were designed to interface, using a hardened network switch with Power over Ethernet (POE) ports, to the airport's existing fiber optic network. Carl served as Senior Electrical Reviewer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Goodacre, A.C.E.	13. ROLE IN THIS CONTRACT Senior Electrical Designer	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) A.S. Mechanical Engineering, 2004		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Airport Certified Employee (ACE) – Airfield Lighting Maintenance (AAAE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mark Goodacre's experience and responsibilities include the preparation of project design documentation and criteria for securing an airports perimeter and critical facilities using Internet Protocol (IP) security cameras and access control networks for pedestrian and vehicle points of entry. These designs have been developed using fiber optic infrastructure, wireless networks, and traditional copper networks in concert with video recording, access control, badging, and head end network equipment.			

19. RELEVANT PROJECTS

		(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	New AOA Fast Access Gate, Gate E-50, Orlando International Airport, Orlando, FL	2012-2014	2014
	The project consisted of construction of a new Fast Access Vehicle Gate located east of the Airside Guard Post at Gate E-50 for enhanced rapid ingress and egress control to the AOA at Airside 2. The project also included enhancements to CCTV coverage at the Gate E-50 Checkpoint and Guard Post, and at the Gate E-31 Checkpoint and Guard Post. The CCTV coverage captured both ingress and egress vehicles, facial view of the drivers, and driver/vehicle interaction with the guard. Mark served as Senior Electrical Designer.			
b	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Vehicle Checkpoint CCTV Additions, Orlando International Airport, Orlando, FL	2014-2015	2015
	This project consisted of construction and interface of new internet protocol (IP) closed circuit security cameras to the existing CCTV network at two vehicle security checkpoints. AVCON provided plans, details and specifications for the installation of several CCTV security cameras to record activities at the checkpoint inspection station. The cameras were designed to interface, using a hardened network switch with Power over Ethernet (POE) ports, to the airport's existing fiber optic network. Mark served as Senior Electrical Designer.			
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Security Fencing Phase III, Sebring Regional Airport, Sebring, FL	2012-2016	2016
	AVCON was tasked with providing project coordination, final planning, engineering design, bidding phase assistance, and construction administration services for final development of the security fencing program. Key components of the system included computer hardware and software systems, gate controls, gate operators, security cameras, and related elements for a total of ten vehicular and six pedestrian gates of various dimensions and styles. Mark served as Senior Electrical Designer.			
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CCTV and Airport Operations Center Security Upgrades, Northwest Florida Regional Airport, Okaloosa County, FL	2010-2012	2012
	This project consisted of rehabilitating an existing 47,000 sy parking lot at the Airport to include a complete replacement of the security Video Management System and video presentation in the Airport Operations Center (AOC). Fourteen pan/tilt/zoom and four fixed cameras were installed in the parking lot and connected to the AOC for viewing. The existing analogue video management system was replaced with an IP-based system including new individual monitoring stations and a central video wall for the monitoring of the security cameras. The existing Airport operations Center (AOC) monitoring room was remodeled to accommodate larger work areas and systems within the AOC were configured to provide the operators with a central location providing public service announcements, monitoring of critical airport operations, security systems, and access control as well as dispatch emergency service personnel. Mark served as Senior Electrical Designer.			
e	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Airport Fencing and Security Upgrades, Zephyrhills Municipal Airport, Zephyrhills, FL	2013-2014	2014
	The project consisted of project design, equipment selection and specifications, plans, and bid documents along with limited construction phase services to install additional fencing, access gates, and new CCTV cameras to cover the existing gates at the AOA fence line, as well as CCTV cameras to monitor the airfield. The work included fencing/gate installation in addition to electrical and communication installations and connections. Mark served as Senior Electrical Designer.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Robert Pringle, E.I.	13. ROLE IN THIS CONTRACT Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 2	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida
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16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Electrical Engineering, 2016	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Engineering Intern – FL
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Pringle has over two years of experience in the planning and design of electrical distribution systems, airfield lighting, and roadway lighting. While working towards his bachelor's degree in Electrical Engineering at the University of Florida, Mr. Pringle focused on power systems analysis, systems integration, and embedded systems. Since joining AVCON he has gained extensive knowledge of the National Electrical Code (NEC) and FAA Advisory Circulars pertaining to airport planning and construction. He has also developed efficient skills in CAD, generator sizing software, Excel, and other programs related to electrical engineering and planning.

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> South Terminal Complex, Phases II and III – RAC Parking Garage, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
AVCON provided electrical and low voltage systems design for the new South Terminal Complex Parking Garage, a 6-level structure with a total of 2228 vehicle spaces. Electrical design included power distribution, emergency power, LED lighting, electric vehicle charging stations, and rental car interior design. Low voltage systems design included parking and guidance design, CCTV, access control, Wifi service, GPS service, and fire alarm. The project was produced in Autodesk Revit 3D modeling. Robert served as Electrical Engineer.

b	(1) TITLE AND LOCATION <i>(City and State)</i> Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-2017	CONSTRUCTION (If Applicable) On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
AVCON provided design for the new Access Control System and Closed-Circuit Television security systems. The work included replacing outdated security systems as well as design of the new security systems for the terminal expansion. The camera system included stationary indoor and outdoor cameras as well as PTZ. Video system hardware and software is being upgraded to accommodate additional video storage. New technologies for License Plate Recognition and Exit Lane Security were incorporated into the video management system. Robert served as Electrical Engineer.

c	(1) TITLE AND LOCATION <i>(City and State)</i> Security Fencing Phase III, Sebring Regional Airport, Sebring, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012-2016	CONSTRUCTION (If Applicable) 2016

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
AVCON was tasked with providing project coordination, final planning, engineering design, bidding phase assistance, and construction administration services for final development of the security fencing program. Key components of the system included computer hardware and software systems, gate controls, gate operators, security cameras, and related elements for a total of ten vehicular and six pedestrian gates of various dimensions and styles. Robert served as Electrical Engineer.

d	(1) TITLE AND LOCATION <i>(City and State)</i> New Terminal Facility and Associated Improvements, Marco Island Executive Airport, Collier County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
The scope of this project includes a new terminal facility, associated landside improvements, demolition of the existing terminal, and expansion of the existing aircraft apron. Fire protection design includes fire suppression systems such as automatic fire sprinkler protection, portable fire extinguishers, and water supply; and building fire alarm. Mechanical / HVAC design comprises cooling systems, heating systems, ventilation systems, HVAC distribution systems, and HVAC controls. Plumbing systems design consists of plumbing fixtures, DWV systems, domestic water distribution systems, and domestic water heating systems. Electrical design includes main building supply, electrical loads, lighting / day lighting, emergency power / generator, and grounding / lightning protection. Finally, telecommunication / security design entails telecommunication systems, building security and access systems, CCTV, and intercom / PA systems. Robert served as Electrical Engineer.

e	(1) TITLE AND LOCATION <i>(City and State)</i> Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (If Applicable) N/A – TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Robert serves as Electrical Engineer.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Coppage, P.E.	13. ROLE IN THIS CONTRACT QA/QC, Construction Management	14. YEARS EXPERIENCE	
		a. TOTAL 11	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Clearwater, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Civil Engineering, 2006		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Coppage has over 11 years of innovative engineering experience. He has comprehensive knowledge of FAA design criteria and regulations and is competent in Florida water management district permitting and procedures. Additionally, he is familiar with FDOT design standards and specifications. He is a highly organized, research driven, and dedicated member of the AVCON Team and he has experience in all stages of a project life cycle to provide practical engineering solutions while improving end users' experience. His areas of expertise include drainage, site development, and roadway design with a specialized background in airport enterprise, planning, airside and landside design, construction management and inspection, and AIP grant administration.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	Taxiway Rehabilitation Phase 2 Construction Management, St. Pete-Clearwater International Airport, Clearwater, FL	N/A	2016-On-going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project includes performance of full-time inspection and Quality Assurance testing as well as general project administration and coordination. The AVCON Team also serves as the liaison between the Airport and the Contractor. The areas of work include Taxiway A South of Runway 4-22 and Taxiways F and M (Base Bid); Taxiways B and T (Additive Bid #1); and Taxiways M, J, K and U (Additive Bid #2). Additional services include review of project documentation, conducting the Pre-Construction Conference, submittal reviews and requests for information, contractor pay applications, change orders, site visits and meetings, and Resident Project Representation (RPR). Michael serves as Construction Manager.		
b	Terminal Apron Hardstand Expansion – Phase 2, St. Pete-Clearwater International Airport, Clearwater, FL	2014-2016	2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON was responsible for project planning and design for the development of construction plans and specifications for this \$5 million, fast-track project at PIE. The project entailed the reconstruction of existing asphalt pavement adjoining PCC hardstands for gate positions 7 thru 11 and the creation of new air-carrier pavement at positions 1 and 1A. The project required close coordination with Airport staff, the terminal designer and other stakeholders and included installation of high mast lighting, relocation of SIDA fence and gate, and fiber-optic access control. It also included construction phasing, grading, markings, associated drainage and utility adjustments. Michael served as Project Engineer.		
c	110 Aerospace Drive Hangar Improvements, Orlando Melbourne International Airport, Melbourne, FL	2016	2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project consisted of renovations to an existing 77,107 sf hangar facility to accommodate a new tenant that provides full service maintenance to fueled aircraft. The scope of work included providing a foam deluge system in the building in accordance with NFPA 409 and NFPA 11; providing a new 16" fire service connection to the building from the water utility main; expanding the hangar facility to accommodate the four (4) 400 hp diesel motors, foam tanks and associated equipment; structural analysis of the roof framing as required for support of the 18 foam generators and fire protection equipment; completely rewiring the interior electrical system for a Class 1 Aircraft Hangar; replacing the hangar floor to support the new aircraft configurations; and providing trench drains in the hangar floor as required by the AHJ and NFPA 409. Michael served as Project Engineer.		
d	Curbside Improvements, Sarasota Bradenton International Airport, Sarasota, FL	2014 (Design Only)	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Civil engineer for the civil, maintenance of traffic, and drainage design, construction documents, and bidding. The project consisted of the reconfiguration and rehabilitation of the terminal curbside roadway including demolition, geometric design, pavement design, structural and foundation design for a new canopy system, electrical design, roadway signage, landscaping, drainage design, and architecture with associated plans, specifications, and cost estimates for these items. The project called for careful phasing in order to maintain a functional curbside with minimal impact to airport congestion and operations.		
e	GA Terminal Parking Lot, Ocala International Airport, Ocala, FL	2015-2016	2016
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager for design of new parking areas to ease congestion at the airport terminal. The project consisted of coordination with local utilities for undergrounding of communications and power cables, asphalt paving, stormwater design and permitting, landscaping, site lighting, and permitting through the City of Ocala Growth Management Department.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Sarah Breen, P.E.	13. ROLE IN THIS CONTRACT Mechanical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida
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16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. Chemical & Biomolecular Engineering, 2012	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer – VA, FL License Pending
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Ms. Breen brings experience in design of mechanical systems for projects within the aviation, entertainment, medical and office building sectors. She has considerable experience in AutoCAD, Trane Trace HVAC Load Calculations, and Revit.

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Corporate and Bulk Storage Hangars, Greenville-Spartanburg International Airport, Greer, SC	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) 2017-On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
This project consists a new 30,000 sq. ft. bulk storage hangar and a new 16,000 sq. ft. corporate hangar with 2,500 sq. ft. of associated office space. The project includes necessary drainage and utility enhancements to serve the two new hangars, such as treatment/attenuation storage areas; potable water and sanitary sewer services; fire supply water services including a 300,000-gallon storage tank and 2,500 GPM diesel fire pump system; and electrical power, communication, and natural gas services. The fire suppression systems consist of a high expansion foam system and fire sprinklers. Sarah served as Mechanical Engineer.

b	(1) TITLE AND LOCATION <i>(City and State)</i> Terminal Improvements, Gainesville Regional Airport, Gainesville, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017-On-going	CONSTRUCTION (If Applicable) N/A – TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
The scope of work consists of evaluation of the CEP for expansion and the addition of air cooled chiller and pumps; evaluation of space heating hot water system and increasing capacity as well as the addition of a boiler; replacement of 2 air handlers; evaluation of the roof mounted air handlers for sound considerations and possible relocation; confirming reuse of the electrical service and MSB; providing new power distribution, lighting, telecommunications and data in new gate area expansion as well as WiFi and GPS, and extending the existing systems; providing new VAV air handler and terminal boxes for gate expansion; evaluating existing emergency generator; providing new MEP for restroom renovations; providing replacement of all lighting fixtures in public spaces with LED fixtures and controls; extending existing fire alarm system and existing public address system to gate expansion area; providing MEP for new gate counters in expansion area; and evaluation of the lightning protection system. Sarah serves as Mechanical Engineer.

c	(1) TITLE AND LOCATION <i>(City and State)</i> Orion Phase 3 Hangars, Miami-Opa-Locka Executive Airport, Opa-Locka, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
The project consists of one 26,900 sf Group II hangar and two 14,400 sf Group III hangars. Electrical Design includes power distribution with 400 Hz electrical connections for aircraft power, aircraft grounding, lightning protection, LED lighting, and low voltage systems. Plumbing design includes oil water separator and diverter valve structure for the Group II hangar; and domestic water, sanitary, and storm system design. Fire Protection design includes a combination automatic high expansion foam system and an automatic wet type sprinkler system for the Group II hangar and a wet based automatic sprinkler system for the Group III hangars. HVAC design includes ventilation of the aircraft storage areas with high volume commercial ceiling fans and VVT DX rooftop units serving the office spaces. Sarah served as Mechanical Engineer.

d	(1) TITLE AND LOCATION <i>(City and State)</i> New Terminal Facility and Associated Improvements, Marco Island Executive Airport, Collier County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (If Applicable) TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
Fire protection design includes fire suppression systems such as automatic fire sprinkler protection, portable fire extinguishers, and water supply; and building fire alarm. Mechanical / HVAC design comprises cooling systems, heating systems, ventilation systems, HVAC distribution systems, and HVAC controls. Plumbing systems design consists of plumbing fixtures, DWV systems, domestic water distribution systems, and domestic water heating systems. Electrical design includes main building supply, electrical loads, lighting / day lighting, emergency power / generator, and grounding / lightning protection. Finally, telecommunication / security design entails telecommunication systems, building security and access systems, CCTV, and intercom / PA systems. Sarah served as Mechanical Engineer.

e	(1) TITLE AND LOCATION <i>(City and State)</i> Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (If Applicable) N/A – TBD

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
 Check if project performed with current firm
AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Sarah serves as Mechanical Engineer.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mary Soderstrum, AIA, NCARB	13. ROLE IN THIS CONTRACT Senior Airport Planner	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION <i>(City and State)</i> AVCON, INC., Orlando, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Architecture, 1976; B.S. Environmental Design, 1975		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Registered Architect – FL National Council of Architects Registration Board	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mary Soderstrum has over 38 years of experience as an airport planner, a senior aviation executive, facilities programmer, aviation activity forecaster, and architect. She was part of the team that wrote the FAA Advisory Circular 150/5070-6 Airport Master Plans, and she was the principal author of the FDOT Airport Master Plan Guidebook (2010). She recently served as a member of the advisory committee for the re-write of the FDOT Airport Master Plan Guidebook and the concurrent updating of internal FDOT Master Plan procedures.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (If Applicable) N/A – TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Mary serves as Project Manager / Senior Airport Planner.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Wildlife Hazard Management Plan and Related Support, St. Pete-Clearwater International Airport, Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012-2014	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The plan includes a list of the individuals having authority and responsibility for implementing each aspect of the plan; a list prioritizing the wildlife population management, habitat modification and land use changes; requirements for copies of local, State, and Federal wildlife control permits; identification of resources that the certificate holder will provide to implement the plan; procedures to be followed during the air carrier operations such as designation of personnel responsible for implementing the procedures, provisions to conduct physical inspections of the aircraft movement areas and other areas critical to successfully manage known wildlife hazards, wildlife hazard control measures, and procedures for communicating effectively between personnel conducting wildlife control or observing wildlife hazards and the ATCT; procedures to review and evaluate the wildlife hazard management plan every 12 consecutive months or following an event; and a training program conducted by a qualified wildlife damage management biologist. Mary served as Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> Airport Layout Plan Update and Exhibit A Property Map and Narrative Report, Zephyrhills Municipal Airport, Zephyrhills, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011-2014	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project entailed a detailed Airport Layout Plan Update (ALP) and included the development of new Aviation Activity Forecasts, the determination of the Primary Runway, the determination of runway lengths and widths, the development of various parcels on the east side of the Airport for use as an aviation related business park to enhance alternative sources of revenue, a Capital Improvement Program, and the determination of funding sources, as well as a complete update of the Airport's Property Map. Mary served as Senior Airport Planner.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Master Plan Update, Daytona Beach International Airport, Daytona Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017-On-going	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE AVCON is responsible for the Inventory of Existing Conditions for the Commercial Passenger Terminal, as well as the Facility Requirements, Development and Evaluation of Alternatives, Project Phasing, and Financial Feasibility for the Terminal. AVCON will also assist with the technical writing and editing of the Working Papers, Draft and Final Master Plan Narrative Reports, and the final Stormwater Master Plan Reports. AVCON is also responsible for the development of the traditional Airport Layout Plan and the Exhibit "A" Airport Property Inventory Map. Mary serves as Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> Master Plan Update, Orlando International Airport, Orlando, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011-2013	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Tasks under this assignment included forecasting of passenger, aircraft, cargo, general aviation and peak hour activity; demand/capacity analysis, facility requirements, alternatives development and support for preparation of an updated capital improvement plan for terminal, airfield, roadway, parking, cargo and other airport related facilities; and airport layout plan preparation including field surveys, aerial imagery, and compliance with FAA GIS standards. As a part of the multi-firm team, AVCON provided master planning services in the areas of general aviation, air cargo, Aircraft Rescue and Fire Fighting (ARFF), utilities, and NAVAIDs. Mary served as Project Manager / Senior Airport Planner.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Luca DelVerme, P.E.	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering, 2002		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer – FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. DelVerme is a Structural Project Engineer with 16 years of experience in the structural engineering discipline for both the public and private sectors. He has practiced structural design for a variety of building types, including airport terminals, hospitals, universities, courthouses and jails, parks and trail facilities, aircraft and storage hangars, and solid waste facilities throughout the state of Florida. In addition, his area of practice includes renovation and addition of existing building structures as well as miscellaneous repair of various facilities.			

19. RELEVANT PROJECTS

		(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
			PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a		Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	2015-On-going	N/A – TBD
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON performed an inventory of the existing Customs and Border Protection (CBP) facilities at the Airport and determined the steps needed to upgrade the facility to meet the June 2012 Airport Technical Design Standards (ATDS). At the conclusion of the inventory study, the AVCON Team was retained to develop the design drawings that would bring the facility up to the ATDS standards. Luca serves as Structural Engineer.		
b		Terminal Apron Hardstand Expansion – Phase 2, St. Pete-Clearwater International Airport, Clearwater, FL	2014-2016	2016
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON was responsible for project planning and design for the development of construction plans and specifications for this \$5 million, fast-track project at PIE. The project entailed the reconstruction of existing asphalt pavement adjoining PCC hardstands for gate positions 7 thru 11 and the creation of new air-carrier pavement at positions 1 and 1A. The project required close coordination with Airport staff, the terminal designer and other stakeholders and included installation of high mast lighting, relocation of SIDA fence and gate, and fiber-optic access control. It also included construction phasing, grading, markings, associated drainage and utility adjustments. Luca served as Structural Engineer.		
c		New LED Exit Signs – Parking Lots, St. Pete-Clearwater International Airport, Clearwater, FL	2011-2012	2012
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm AVCON developed a biddable LED sign specification based on the information provided by PIE with regard to improving signage for the new parking lot. This specification was tailored for use on the existing structure canopy. Additional specifications were added to address incidental work and pay items. AVCON verified that the parking lot electric service and existing feeders were able to accommodate the loads for these new signs. The existing canopy structure was also analyzed to ensure the 130 mph requirement was met with the sign addition. Luca served as Structural Engineer.		
d		South Airport APM Complex Parking Garage, Orlando International Airport, Orlando, FL	2014-2016	On-going
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project is part of the Greater Orlando Aviation Authority's South Airport APM Complex Program, a multi-year program which consists of multiple projects such as Automated People Mover (APM) stations (north and south) with associated modes of transportation, parking garage(s), roadway(s), all associated infrastructure, and all other components required to complete the Program. Phase 1 of the multi-year program includes the construction of the APM Station and the southern portion of the Parking Garage. AVCON is responsible for structural design of the foundations and slab-on-grade design for the parking garage. AVCON is also providing entry/exit toll plaza design. The project consists of schematic design through construction administration. Luca served as Structural Engineer.		
e		New Terminal Facility and Associated Improvements, Marco Island Executive Airport, Collier County, FL	2016-2017	TBD
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Fire protection design includes fire suppression systems such as automatic fire sprinkler protection, portable fire extinguishers, and water supply; and building fire alarm. Mechanical / HVAC design comprises cooling systems, heating systems, ventilation systems, HVAC distribution systems, and HVAC controls. Plumbing systems design consists of plumbing fixtures, DWV systems, domestic water distribution systems, and domestic water heating systems. Electrical design includes main building supply, electrical loads, lighting / day lighting, emergency power / generator, and grounding / lightning protection. Finally, telecommunication / security design entails telecommunication systems, building security and access systems, CCTV, and intercom / PA systems. Luca served as Structural Engineer.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Zoia, CPP, RCDD, PSP	13. ROLE IN THIS CONTRACT Security Engineer, QA/QC	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> Ross & Baruzzini, Inc., St. Louis, Missouri			
16. EDUCATION <i>(Degree and Specialization)</i> M.A. Business & Organizational Security Management; B.S. Biomedical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> ASIS – Physical Security Professional (PSP); ASIS – Certified Protection Professional (CPP); BICSI – Registered Communication Distribution Designer (RCDD)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mike has a wealth of process and systems engineering experience having been involved on Ross & Baruzzini's most complex aviation projects for more than 8 years. Mike currently serves as the Director of the Aviation Market in North America providing oversight and coordination of all activities within the market, including ongoing contracts at several of the largest and busiest airports in the United States. Specific special airport systems planning and design experience includes work at in Dubai and Jeddah along with Ft. Lauderdale, BWI, and Dallas-Ft. Worth Airport managing the design and implantation of security, systems and critical communications infrastructure including Access Control Systems, Local and Storage Area Networks, Digital Video, Public Address, Audio/Visual systems, Data Center design, and Wireless Radio and Cellular systems.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Hartsfield-Jackson Atlanta International Airport, Domestic Terminal Modernization Project (Landside), Atlanta, GA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If Applicable) 2021 (Estimated)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Executive for oversight of the design of IT & security systems involved with the modernization of the existing Domestic Terminal and curbside areas. Work included rerouting of fiber optic trunk lines, development of new 84-inch baggage claim LCD displays (BIDS), large ceiling mounted 5mm pixel LED display, and upgrades to security cameras and ticket counter data distribution.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Maryland Aviation Administration, BWI On-Call Consulting and Engineering, Integrated Access Security System, Baltimore, MD	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Security Engineer for Integrated Access Security System (IASS) which includes the replacement of the existing Access Control System, the expansion of the Closed-Circuit Television System (CCTV)/Digital Video Management System (DVMS) that includes digital recording on a Storage Area Network (SAN) provided as part of the TSA CCTV Camera project. The project includes over seven hundred (700) Access Control Portals and the addition of over five hundred (500) cameras to the CCTV/DVMS system.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> Maryland Aviation Administration, BWI On-Call Consulting and Engineering, Gate J Redesign, Baltimore, MD	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If Applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Security Engineer for IT/Security design elements for an airside gate upgrade at BWI Airport. Work included the repositioning of access control equipment, new single mode fiber connectivity, and assistance with transition/phasing coordination.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Dallas Fort Worth International Airport, Access Control Management System, Dallas, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Security Engineer for the development of an RFP to procure an Access Control Management System to automate, integrate, and improve the protection of applicant personal identifying information for the Public Safety Access Control Office (ACO) credential management process, Automated Access Control System, badge auditing processes, and reporting functions by forming a comprehensive and single database.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> Dallas Ft. Worth International Airport, IT, On-Call Contract, Information Technology and Construction Management Services, Dallas, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If Applicable) On-Going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the delivery of Professional Services for IT and Construction Management Services. Provides technology consulting and engineering design services for the analysis, study, planning, design, construction support, and construction management of airport technology infrastructure and service delivery. 40+ delivery orders to date.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Raji George Sayegh, PE, RCDD, DCDC, LC, LEED AP	13. ROLE IN THIS CONTRACT Systems Engineer - Technology Systems	14. YEARS EXPERIENCE	
		a. TOTAL 15	b. WITH CURRENT FIRM <1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Ross & Baruzzini, Inc., Miami, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Electrical & Computer Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer – FL; BICSI Registered Communications Distribution Designer (RCDD); BICSI Data Center Design Consultant (DCDC); NCQLP Lighting Certified Engineer (LC); USGBC LEED AP	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Raji is a registered engineer with more than 15 years of experience in all aspects of electrical and systems engineering, project management and design. His background with engineering systems encompasses high and low voltage power, normal and emergency power, lighting, fire alarm, telephone, television, public address, security, lightning protection, environmental control and building management for residential, commercial, institutional and industrial buildings. Experience includes business development, project management, timeline development, budgeting, proposals, cost estimates, design, coordination, preparation of specifications, review of submittals, and construction administration.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Miami International Airport “E” Satellite and Lower E Concourse 400Hz System Evaluation and Conditional Report, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If Applicable) 2017
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer for engineering services for the evaluation of the existing central 400Hz systems and related infra-structure serving parked aircraft at nine (9) parking positions on E Satellite and nine (9) parking positions on Lower Concourse E for purposes of establishing recommendations towards required upgrades.	<input type="checkbox"/> Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Miami International Airport “E” Satellite Gates E-20 thru E-25 400Hz Feeder Replacement, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If Applicable) 2017
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Complete engineering design and construction period services for the replacement of existing 400Hz distribution feeders to support upgraded aircraft gate equipment intended to serve seven (7) wide body and two (2) narrow body aircrafts.	<input type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> New Doha International Airport, Doha, State of Qatar	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead electrical engineer for several packages including the catering facility, perimeter security, and In-flight duty-free store special airport systems and electronic safety and security systems.	<input type="checkbox"/> Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Bombardier Aerospace CIASTA Aircraft Testing Facility & Airside Services, Mirabel, Canada	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable) 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer responsible for the design of the aircraft test facility and apron services of aircrafts. Design included systems coordination with avionics testing, 400Hz, and apron lighting.	<input type="checkbox"/> Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> Dubai International Airport Parking Garage, Dubai	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2004	CONSTRUCTION (If Applicable) 2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical engineer for the project consists of a 1.9M SF garage with 2,000 spaces and 40 bus parking spaces. The garage included a smart parking system with counters and LED displays, check in counters, parking barrier gates, drive by pay stations, walk up pay stations, elevators, moving walkways, escalators, CCTV system, License Plate recognition system, and cellular signal boosting system.	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David McGhee	13. ROLE IN THIS CONTRACT CCTV and Access Control	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 20
15. FIRM NAME AND LOCATION <i>(City and State)</i> Ross & Baruzzini, Inc., St. Louis, Missouri			
16. EDUCATION <i>(Degree and Specialization)</i> B.S. Architectural Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> David has over 23 years of specialized airport security planning and engineering experience. He is a member of the team that authored the US Transportation Security Administration (TSA) security guidelines. He is well versed with physical and electronics security and has designed numerous security systems for international airports. As the senior security planner, he will ensure that the design and construction of security systems is in adherence to local and international security regulations. His specializations include airport security planning and design including ACS, CCTV/DVMS, and DVA, Local Area Network (LAN) layout, Infrastructure layout, Public Address (PA) design and testing, display system design and layout including FIDS, BIDS, etc., Audio/Visual systems, distributed antenna systems, data center design, and GPS based tracking and announcement systems.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	Broward County Aviation Department, Fort Lauderdale Hollywood International Airport, CCTV Phase II, Fort Lauderdale, FL	2011	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for the Airport's CCTV Phase II project providing IT, Security, and Mechanical Electrical Plumbing (MEP) design services. Design services included final design of CCTV system for all TSA Security Checkpoints within the four Terminal Buildings, General CCTV coverage of Terminal Buildings, both airside and landside locations, and CCTV coverage for Hibiscus, Cypress, and Palm Parking Garages at Fort Lauderdale-Hollywood International Airport. Project included over 600 cameras, the telecommunications infrastructure, network, and storage area network to support storage of all Phase II cameras and the existing Phase I cameras, design of a video wall at the Control Center, construction of telecommunications rooms at garages, and renovation of telecommunication rooms within the terminal.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b	Hartsfield-Jackson Atlanta International Airport, Domestic Terminal Modernization Project (Landside), Atlanta, GA	2017	2021 (Estimated)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for design of IT & security systems involved with the modernization of the existing Domestic Terminal and curbside areas. Work included rerouting of fiber optic trunk lines, development of new 84-inch baggage claim LCD displays (BIDS), large ceiling mounted 5mm pixel LED display, and upgrades to security cameras and ticket counter data distribution.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c	Maryland Aviation Administration, BWI On-Call Consulting and Engineering, Integrated Access Security System, Baltimore, MD	2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer for Integrated Access Security System (IASS) which includes the replacement of the existing Access Control System, the expansion of the Closed-Circuit Television System (CCTV)/Digital Video Management System (DVMS) that includes digital recording on a Storage Area Network (SAN) provided as part of the TSA CCTV Camera project. The project includes over seven hundred (700) Access Control Portals and the addition of over five hundred (500) cameras to the CCTV/DVMS system.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d	Maryland Aviation Administration, BWI On-Call Consulting and Engineering, MAA Office Location, Baltimore, MD	2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Engineer responsible for IT/Security designs associated with the various terminal facility renovations. Baltimore-Washington International Thurgood Marshall Airport (BWI) initiated an overall Terminal Modernization Project in 2011, specifically the expansion of the Concourse B/C connector. In order to accomplish certain renovation/demolition work, an enabling project involving the relocation of various offices was required. Finance and Administration offices were relocated offsite (external to the terminal), while the other offices were relocated to existing space in-between Concourses D and E. This in turn necessitated the relocation of Hudson News and Airport Management Services. Total overall renovated space in the Concourse D/E area was approximately 15,000 SF.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e	San Francisco International Airport, Multi-Task Contract, Airport Security Implementation Master Plan, San Francisco, CA	2016	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Security Consultant leading the security technology efforts on the multi-task security consulting contract. Work includes development of an Airport-wide Security Implementation Master Plan, recommendations and guidance on improvements to the existing Physical Security Information Management (PSIM), recommendations on a Perimeter Intrusion Detection System (PIDS), and various security related efforts. Dave is responsible for evaluating security needs, practices and technologies and will be responsible for generating the technology reports.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ann Barry	13. ROLE IN THIS CONTRACT Airport Credentialing and Identification	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION <i>(City and State)</i> Ross & Baruzzini, Inc., St. Louis, Missouri			
16. EDUCATION <i>(Degree and Specialization)</i> M.S. Electrical Engineering, Electromagnetic Theory; M.S. Computer Science; B.A. Computer Science		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Ann is a nationally-recognized Subject Matter Expert in all facets of aviation security. She has more than 28 years of experience leading the development of strategic planning and assessment of technology platforms for a wide range of airport programs, including JFK, BWI, and LAWA. Her recent experience coupled with her leadership on the development of the AAE BASIC program for Airport Credentialing and Identification as well as her expertise on Airport Perimeter Advanced Intrusion Programs makes her the ideal expert to support this assignment. Through her work at PANYNJ, BWI, DFW, and SFO, Ann has strong working relationships with the TSA and other regulatory agencies that will support the Airport with properly interpreting TSA mandates and requirements and in developing appropriate compliance standards.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> The Port Authority of New York and New Jersey, Identity Management and Credential System, New York, NY	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Principal and subject matter expert on a project to prepare a Request for Proposal (RFP) to provide the Aviation Department with a comprehensive Identity Management and Credential System (IMCS). The IMCS system will interface with the access control system deployed in Port Authority facilities at JFK, LGA, and EWR (including tenant facilities) and will be used to fulfill security vetting, credentialing control, and record keeping requirements of the Transportation Security Administration.			
b	(1) TITLE AND LOCATION <i>(City and State)</i> Maryland Aviation Administration, BWI On-Call Consulting and Engineering, Integrated Access Security System, Baltimore, MD	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Security Subject Matter Expert responsible for developing an Integrated Airport Security System (IASS) definition document. The document consisted of an evaluation of technology approaches to an integrated Physical Access Control System (PACS), Identity Management System (IDMS), and a Video Surveillance and Management system, and to provide a recommended approach concept. The recommended system-of systems architecture serves as the corner stone in the System (IASS).			
c	(1) TITLE AND LOCATION <i>(City and State)</i> San Francisco International Airport, Multi-Task Order Contract Security Consulting Services, San Francisco, CA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager/Lead Security Consultant on the multi-task security consulting contract. Work includes development of an Airport-wide Security Implementation Master Plan, recommendations and guidance on improvements to the existing Physical Security Information Management (PSIM), recommendations on a Perimeter Intrusion Detection System (PIDS), and various security related efforts.			
d	(1) TITLE AND LOCATION <i>(City and State)</i> Connecticut Airport Authority, Airport and Tenant Employee Screen for Bradley International Airport, Hartford, CT	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Security consultant for the feasibility study associated with the implementation of 100% employee screening at Bradley International Airport in Hartford, CT. While 100% employee screening is not a TSA requirement, Ross & Baruzzini worked with to explore implementation options in anticipation of a potential TSA mandate for airport employee screening at terminal buildings. As part of the study, investigated screening arrangements at peer airports, and made recommendations on how screening could be implemented at Bradley in concert with enhanced technology components and operational procedures.			
e	(1) TITLE AND LOCATION <i>(City and State)</i> Dallas Fort Worth International Airport, Access Control Management System, Dallas, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Principal and subject matter expert on Access Control Management System (ACMS) development. This project will develop a RFP to procure an Access Control Management System (ACMS) to automate, integrate, and improve the protection of applicant personal identifying information for the Public Safety Access Control Office (ACO) credential management process, Automated Access Control System, badge auditing processes, and reporting functions by forming a comprehensive and single database.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Ruben Barreiro	13. ROLE IN THIS CONTRACT IT and Security; Radio Communications	14. YEARS EXPERIENCE	
		a. TOTAL 22	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Ross & Baruzzini, Inc., Miami, Florida			
16. EDUCATION (Degree and Specialization) B.S. Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ruben is an experienced manager of culturally diverse cross functional teams who independently executes simultaneous assignments and responsibilities. Excellent communicator, bilingual in English/Spanish and conversational Portuguese who engages personnel at both internal as well as external levels and ensures 100% satisfaction through effective communication and proactively managing expectations of clients, senior management, and team members. Uses strong creative, analytical and problem solving skills to provide alternative solutions to new challenges.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a	Dubai Aviation Engineering Projects (DAEP), Al Maktoum International Airport Airfield and Infrastructure Development, Dubai, UAE	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable) 2020 (Estimated)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Systems Engineer for the design of Special Airport Systems (SAS), Security Systems, Integration systems and Information and Communications Technology (ICT) Systems for various AMI Airfield & Infrastructure (A&I) Packages under Phase 1. Specific design tasks include the campus data centers, OPS site infrastructure, campus system head-ends, and support building ICT/Security system design. Specific systems include Access Control, CCTV Security Cameras, Telephony, LAN/WLAN, Perimeter Detection, Staff/Vehicle Screening, Masterclock, Flight Information Displays/IPTV, and overall Structured Cabling Network.		
b	Dubai Aviation Engineering Projects (DAEP), Al Maktoum International Airport Concourses and Terminal Extra Low-Voltage Systems, Dubai, UAE	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable) 2020 (Estimated)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Systems Engineer for IT and Security Systems scope for this iconic project that features 200 aircraft stands and the capacity for 120 million PAX as part of Phase 1 of an overall expansion project. Direct responsibilities include site-wide fiber optic cabling infrastructure, campus-wide security systems, and terminal/concourse IT systems including Passenger and Baggage Screening Systems, VoIP Telephone system, Common Use Passenger Processing System, Electronic Visual Information Display system, Master clock, Airport Operational database, Information Kiosks and Resources Management System, and overall system control center layout and design.		
c	King Abdulaziz International Airport, New King Abdulaziz International Airport International Airport Development Project, Jeddah, Kingdom of Saudi Arabia	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If Applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Systems Engineer for Special Airport Systems (SAS) and Information Communication Technology (ICT). Providing Design, Design Review, and Project and Construction Management for the new domestic/international terminal supporting an initial capacity of 30 million passengers per year. The extensive development effort also included 50 new facilities and 60 existing; with (2) new Tier 3 Data Centers.		
d	King Abdul-Aziz International Airport (KAIA), Construction Administration Services, Jeddah, Kingdom of Saudi Arabia	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Systems Engineer providing construction administration services for the Information and Communications Technology (ICT) special airport systems (SAS) associated with construction of the new airport. The initial scope under this contract is to perform review of CM submittals of Material Transmittal Submittals (MTS) or shop drawings, to confirm compliance with the Contract's Tender Documents specifications.		
e	Port Miami, Design Build Services for Cruise Terminal F Upgrades, Miami, FL	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Systems Engineer providing design and Construction Administration services for the low voltage systems including video surveillance Systems (VSS), Access Control System, Public Address, Fire Alarm System and Local Area Network (LAN) required to implement multiple new upgrades and operational enhancements related to the improvements projects of Terminal F.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Shea, AIA	13. ROLE IN THIS CONTRACT Architect	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 27
15. FIRM NAME AND LOCATION <i>(City and State)</i> Ross & Baruzzini, Inc., Saint Louis, Missouri			
16. EDUCATION <i>(Degree and Specialization)</i> B.A. Architecture, 1984; B.A. Environmental Design, 1983		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Registered Architect – FL; BURS I – Better Understanding of Roofing Systems Institute; Certificate of Training, Security / Antiterrorism Engineering, Naval Facilities Engineering Service Center Antiterrorism Services Branch, May 2011	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mike has over 30 years of experience and is responsible for managing all aspects of Ross & Baruzzini's government and mission critical facility services including contract negotiation, design, scheduling, construction administration, quality review and recruitment of personnel. He has been active in the A/E design field since 1984 and fully understands the integrated design and construction process, and the level of effort required to successfully execute projects. Mike specializes in the management and coordination of large-scale multi-disciplined projects that demand 24/7 operations. The majority of his experience has involved technically oriented projects including public safety, operations centers, communications, phased building renovations, data centers, laboratories, airports, correctional and healthcare facilities.			

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> Sarasota Bradenton International Airport, Checkpoint Expansion Sarasota, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005	CONSTRUCTION (If Applicable) 2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Principal for a 5,000sf elevated building addition and 6,000sf renovation required to expand the security checkpoint to six stations.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Pittsburgh Airport, Consolidated Communications Command Center, Pittsburgh, PA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2003	CONSTRUCTION (If Applicable) 2005
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Architect of Record for a new \$8 Million consolidated communications center that houses airport operations, fire, county police, 911 and security monitoring and dispatch functions. The facility was constructed in phases on the roof of an existing concourse in the center of the airport.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> Abu Dhabi Airports Company, Technology Center and Airport Command and Control Center, Abu Dhabi, UAE	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Architectural Planner and Programmer for two mission critical facilities including \$70 Million, 7,900sm Technology Center with 1,200sm Tier 3 data center, network operations center and information communications services administrative offices; and 4,800sm airport command and control center consisting of airport operations center, security operations center, emergency operations center and VIP suite.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Miami International Airport, New Airport Operations Center, Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Principal for conceptual level programming associated with the preparation of a Project Book summarizing the requirements for a new consolidated Airport Operations Center and Emergency Operations Center developed within existing Third Level CC "D" space.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> Lambert St. Louis International Airport, Security Gates 34S and 41W St. Louis, MO	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2008	CONSTRUCTION (If Applicable) 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Architect for the addition of card reader controlled security exit gates and the addition of over 1,000 lineal feet of security fencing.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Peter Barts	13. ROLE IN THIS CONTRACT Environmental, Hazardous Waste	14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 28
15. FIRM NAME AND LOCATION (City and State) HSA Golden, Inc., Orlando, Florida			
16. EDUCATION (Degree and Specialization) B.S. Geology		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Geologist – FL and GA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Pete Barts, founder and President of HSA Golden, brings 29 years of experience in environmental and hazardous waste projects working in both domestic and international settings. With a long working history in Florida, Mr. Barts is thoroughly familiar with Florida's complex geological framework and its implications on groundwater and contaminant flow. Specifically, Mr. Barts is an expert in contamination assessment, hydrogeology/groundwater modeling, contaminant fate and transport, remediation system design and implementation, brownfields; and property transaction consulting. In addition, Mr. Barts has provided peer review, litigation support, and expert witness testimony services regarding site assessment and remediation.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a	Monitoring Well Installation, Sampling, and Reporting, Orlando Sanford International Airport, Sanford, FL	PROFESSIONAL SERVICES On-going	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Currently providing monitoring well installation, groundwater quality testing, and reporting for the Sanford Airport Authority. The work relates to the delineation of an existing groundwater contamination plume on the site. Reports fully document HSA Golden's investigative methods, results, and conclusions regarding the site conditions and are submitted to the appropriate regulatory agencies (FDEP, Seminole County). Mr. Barts has arranged for the well installations and sampling, provided onsite supervision, and prepared all report documents.		
b	Site Assessment and Remediation – The Men's Wearhouse, Winter Garden, FL	PROFESSIONAL SERVICES On-going	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Performed a contamination assessment and remediation activities at the Men's Wearhouse regional dry cleaning facility. Tetrachloroethane (PCE), trichloroethene (TCE), and 1,2-dichloroethene (DCE) were detected at concentrations requiring active remediation both onsite and on an adjacent property. Remedial alternatives were evaluated and the installation of permeable reactive barriers (PRBs) was considered to be the best option for long-term remediation. Remediation also included installation and operation of a multiphase extraction (MPE) system and later, Bacteria (Pseudomonas sp.) was injected into the groundwater to break down the groundwater contaminants in-situ. The combination of these technologies reduced contaminant concentrations to the level that remediation was no longer required, and the site is currently undergoing Monitored Natural Attenuation (MNA). Mr. Barts provided the initial contamination assessment, evaluation of remedial alternatives, and the design and operation of the remediation system. He also successfully negotiated semiannual, rather than quarterly, MNA testing to minimize ongoing client costs. Currently, Mr. Barts prepares ongoing monitoring reports.		
c	Remediation Services – Steel House Brownfield Site, Orange County, FL	PROFESSIONAL SERVICES On-going	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. HSA Golden was contracted to rapidly remove light, non-aqueous-phase liquid (LNAPL) from the subsurface at a former fuel service station in preparation for site redevelopment. Tasks performed included installation of 13 piezometers, stripping 2,000 cubic yards of clean overburden, testing groundwater and soils, removal of over 400 tons of contaminated soil, transportation of contaminated soil and pit water to approved facilities, installation and operation of an air sparge and soil vapor extraction system to remediate residual impacts, and development and implementation of a Post Active Remediation Monitoring (PARM) Plan. Mr. Barts worked with the client and regulatory agency to transfer the project from the FDEP Reimbursement Program to the Brownfields Program. He is currently overseeing post active remediation monitoring and reporting.		
d	Brownfields Permitting – Former Vigaro Site, Winter Haven, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Provided services for the establishment of a Brownfield Area and the assessment/remediation of impacted properties (fertilizer plant, abandoned gas stations, industrial properties). Tasks performed included Brownfield Site Rehabilitation Agreement (BSRA) review, site assessments, and remediation at impacted sites. Additional activities included pre-demolition asbestos surveys, monitored asbestos abatement, and environmental site assessments. Mr. Barts coordinated all services and reviewed the BSRA.		

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.)

20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION <i>(City and State)</i> South Terminal Complex, Phases II and III-RAC Parking Garage, Orlando International Airport, Orlando, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION (if Applicable) Anticipated Fall 2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Greater Orlando Aviation Authority	b. POINT OF CONTACT NAME Thomas Croff (Matern Professional Engineers)	c. POINT OF CONTACT PHONE NUMBER (407) 740-5020 x230
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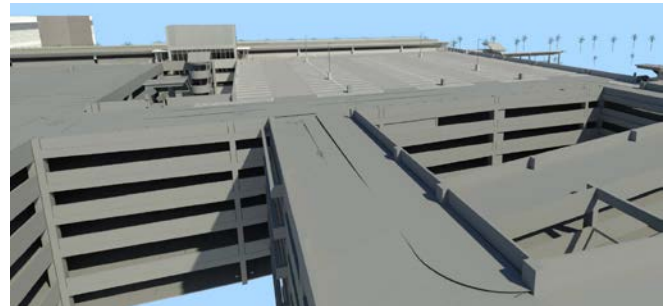
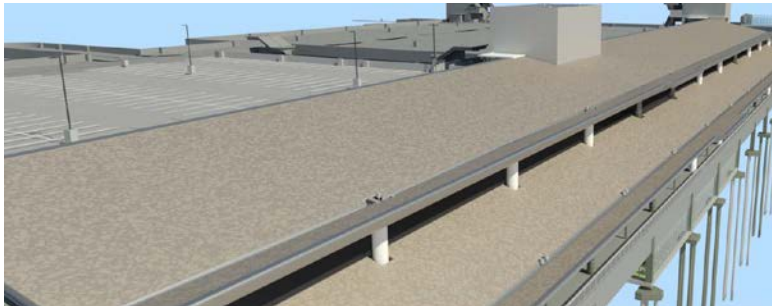
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

AVCON provided Electrical and Low Voltage Systems Design for the new \$53M Greater Orlando Aviation Authority (GOAA) South Terminal Complex Parking Garage located at Orlando International Airport in Orlando, Florida. The garage is a 6 level structure with a total of 2228 vehicle spaces. Electrical Design included a new 2000 amp service from the utility pad mounted transformer to the main switchboard and distribution to the lighting panels, HVAC motor loads, general receptacle panels, and vertical transportation. Emergency power design was provided with an automatic transfer switch connecting to the existing generator set to serve the life safety equipment. Provisions for connection to the future central emergency power generation system were provided. Parking garage lighting included the use of low-bay pendant LED fixtures with dimming drivers. LED fixtures were specified for all public spaces and back of house areas for efficiency, control, and to provide the proper illumination. Provisions were incorporated for electrical vehicle charging stations and buildout of the future rental car offices.

The closed circuit camera surveillance system (CCTV) was provided for the parking facility and RAC to monitor important security locations. The CCTV system design included specification of all cameras for their specific application, cabling, mounting and back boxes, and terminations at IDF rooms. All CCTV equipment was powered over ethernet.

Access Control System Design included combination proximity reader/key pad at each equipment room, non-public access, and secure areas such as communication rooms. The Access Control System included card readers, cabling, back boxes, and terminations at the IDF room. WiFi and GPS service areas were provided for all areas of the garage. Fire alarm design included complete detection and notification device layout with interface to the Phase I main FACP. The RAC area was provided with mass notification for evacuation during a fire event.

The project was produced in Autodesk Revit 3D modeling. Electrical and Low Voltage Systems were coordinated with other MEP disciplines and structural elements to avoid conflicts.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida	(3) ROLE Professional Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*
New AOA Fast Access Gate, Gate E-50, Orlando International Airport, Orlando, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2012-2014

CONSTRUCTION (if Applicable)
2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
Greater Orlando Aviation Authority

b. POINT OF CONTACT NAME
Mark Birkebak, AIA

c. POINT OF CONTACT PHONE NUMBER
(407) 825-4058

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

The project consisted of construction of a new Fast Access Vehicle Gate located east of the Airside Guard Post at Gate E-50 for additional ingress and egress control to the AOA at Airside 2. The new gate was designed to meet all current TSA and FAA criteria for vehicle gates at secure area boundaries. Also included in this project were enhancements to CCTV coverage at the Gate E-50 Checkpoint and Guard Post, and at the Gate E-31 Checkpoint and Guard Post, which were the two (2) Employee and Vehicle Access Locations with immediate need of these enhancements. The CCTV coverage captured both ingress and egress vehicles, facial view of the drivers, and driver/vehicle interaction with the guard.

The new electrically actuated gate system included Installation of two new high speed gates and gate operators; Wallace International's PDXT Series Trackless Speed Gate, one each for the entry and exit lanes east of Guard Post 2. Each of these bi-fold type gates fully open and fully close in 7-seconds, for a total cycle time of 14-seconds excluding vehicle transit. This was extremely critical for this high volume entry point into the Air Operations Area. This project included the following key elements of work:

1. Connection and extension of a new primary electrical service to the project site including underground raceways for power and communication;
2. Site/civil and roadway modifications necessary to facilitate proper grade with durable PCC Pavement at the approach and exit sides of the gate;
3. Drainage system and utility adjustments;
4. AOA Security Fence Modifications to tie into the new gate;
5. Access Control Equipment for the gates including hardened and protected structures for ACS Card Readers;
6. Installation of CCTV Cameras to provide coverage of the entering and exiting vehicles;
7. Installation of new Area Lighting for the gates necessary for night and low-light CCTV images and gate operations; and
8. Pavement Marking and Area Signage.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida	(3) ROLE Professional Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION <i>(City and State)</i> Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (if Applicable) On-going

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Sanford Airport Authority	b. POINT OF CONTACT NAME Diane Crews, A.A.E.	c. POINT OF CONTACT PHONE NUMBER (407) 585-4010
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The expansion includes a new consolidated load and unloading facility, curbside transportation improvements, a covered baggage drop off, apron addition, four new gates, parking lot improvements, terminal building improvements and renovation as well as transportation improvements that include a new traffic signal and alternate entrances to the parking lots.

AVCON provided Low Voltage Design for the new Access Control System and Closed-Circuit Television Security Systems (CCTV). The project included replacing outdated security systems in the existing terminal as well as design of the new security systems for the expansion. Access Control Design included new combination proximity reader/key pads at each equipment room, non-public access, and secure areas such as communication rooms. Access control cabling, card readers, back boxes, and terminations at IDR rooms were provided. CCTV design included specification of indoor and outdoor cameras with fixed coverage (stationary) or with PTZ as required by the airport surveillance. CCTV cabling, camera mounting, back boxes, conduit, and terminations at IDF and interface with headend equipment were provided. All cameras are powered over the ethernet. CCTV video system hardware and software are being upgraded to accommodate additional video storage, more monitoring points, and for future expansion. New technologies for License Plate Recognition and Exit Lane Security were incorporated into the video management system.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida	(3) ROLE Professional Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 4

21. TITLE AND LOCATION <i>(City and State)</i> Security Fencing Phase III, Sebring Regional Airport, Sebring, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012-2016	CONSTRUCTION (if Applicable) 2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Sebring Airport Authority	b. POINT OF CONTACT NAME Mike Willingham	c. POINT OF CONTACT PHONE NUMBER (863) 655-1324
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

AVCON was tasked with providing project coordination, final planning, engineering design, bidding phase assistance, and construction administration services for final development of the security fencing program. Key components of the system included computer hardware and software systems, gate controls, gate operators, security cameras, and related elements for a total of ten vehicular and six pedestrian gates of various dimensions and styles.

The project included construction and interface of an all new security system including CCTV and access control elements. The head end equipment for the Access Control System (ACS), Security Management System (SMS) and Video Management System (VMS) was designed to be located in an existing communications room within the terminal building. A new systems rack was installed to house data patch panels, the VMS server Network Video Recorder (NVR), ACS Server, network switch, fiber converter and other lightweight accessories. A new, physically independent single mode fiber optic, outside plant backbone was established from the communications room to the field mounted fiber optic communications cabinets. A new Access Control System (ACS) network was created using fiber backbone.





Sebring Airport Authority
128 Authority Lane
Sebring, Florida 33870
(863) 655-6444
FAX (863) 655-6447
SUNCOM 742-6444

August 26, 2016

Reference: Letter of Recommendation

AVCON Professional Engineering Consulting Services
Security Fencing Phase III – CCTV/Access Control
Sebring Regional Airport

To Whom it may Concern:

AVCON serves the Sebring Airport Authority as one of our two Continuing Engineering firms. They were assigned to implement the final phase of a multi-phase security fencing project to secure the airfield area of Sebring Regional Airport. This was a follow-up assignment to previous ones whereby the perimeter fencing, existing manual gates, and associated electrical and communication duct bank infrastructure were constructed. AVCON was tasked with providing project coordination, final planning, engineering design, bidding phase assistance, and construction administration phase services for final development of the security fencing program. Key components of the system included computer hardware and software systems, gate controls, gate operators, security cameras, and related elements for a total of ten vehicular and six pedestrian gates of various dimensions and styles.

The system was developed from among the many technologies available, using AVCON's expertise to present various options and guidance on the pros and cons of each. Throughout the design process AVCON met with all of the stakeholders including airport staff, tenants, the FBO, utility providers, and emergency responders, to receive feedback, and more importantly, to solicit acceptance of the new security environment. The system that was finally selected is one where individuals are issued a readable security badge backed up by personal identification key-pad coding to activate gate access.

At the culmination of the planning and design phases, AVCON prepared Plans and Technical Specifications for the Bid Documents, as well as assisted staff with the development of the Contractual "Front End" Specifications. Additionally, AVCON performed comprehensive bid phase services from document distribution, conducting the mandatory pre-bid meeting, issuing addenda, conducting the bid opening, reviewing the bids, and providing a bid tabulation and recommendation of award. Following award of the project, AVCON also provided extensive construction administration phase assistance to see the project through completion. AVCON, led by Robert Palm, P.E. as Senior Project Manager, consistently arose to overcome the challenges presented by the implementation and construction of this new system. Based on our experience, we would endorse and recommend AVCON and Mr. Palm for future projects.

Sincerely,


Mike Willingham
Executive Director

MW/bkg

E-MAIL: admin@mail.sebring-airport.com • WEBSITE: <http://www.sebring-airport.com>



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida	(3) ROLE Professional Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 5

21. TITLE AND LOCATION <i>(City and State)</i> Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015-On-going	CONSTRUCTION (if Applicable) N/A – TBD

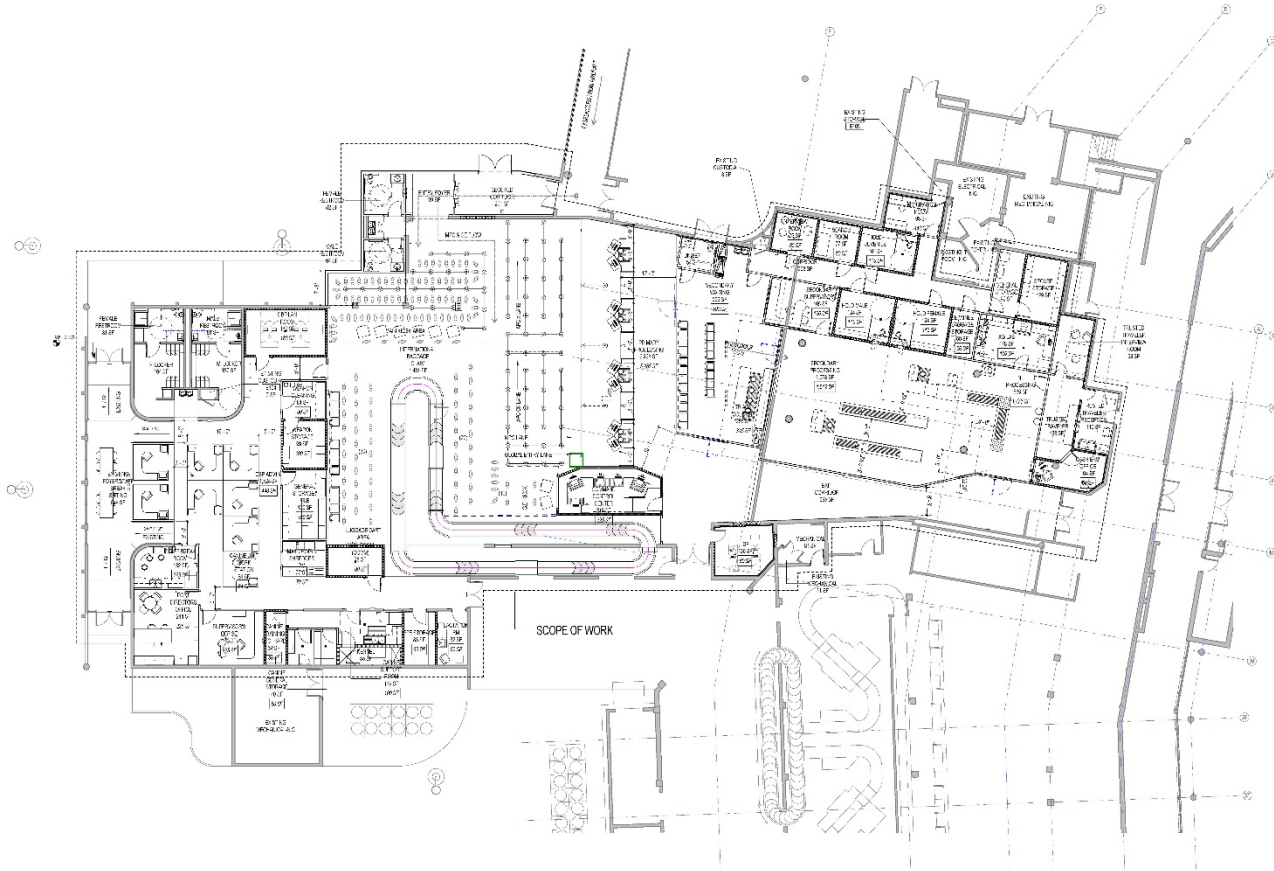
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER St. Pete-Clearwater International Airport	b. POINT OF CONTACT NAME Scott Yarley, P.E.	c. POINT OF CONTACT PHONE NUMBER (727) 453-7830
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

In May 2016, AVCON INC. submitted to the St. Pete-Clearwater International Airport (PIE) a study entitled Customs and Border Protection Facility Analysis. This document compared the existing PIE Customs and Border Protection (CBP) facilities with the CBP 2012 Airport Technical Design Standards (2012 ATDS) that define the requirements that the CBP has for its facilities. There were a number of issues that were outlined within the report between the existing facilities and the 2012 ATDS. The Airport anticipated that the demand for the use of the CBP would increase significantly within a short period. Indeed, this has been realized as scheduled service from a foreign carrier is anticipated to begin in the Summer of 2017.

PIE requested that AVCON, INC. in conjunction with the team's Architect provide the professional design services of architecture: interior design: and mechanical, electrical, plumbing, and fire protection engineering; and cost estimating for the design, bidding, and construction administration for the implementation of the CBP facilities.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida	(3) ROLE Professional Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 6

21. TITLE AND LOCATION <i>(City and State)</i> North Terminal Development, Special Systems Program Management, Miami International Airport, Miami, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES On-Going	CONSTRUCTION (if Applicable) Terminal Completion 2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami International Airport	b. POINT OF CONTACT NAME Maurice Jenkins	c. POINT OF CONTACT PHONE NUMBER (305) 876-0934
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Ross & Baruzzini provided special systems program management for the \$2.8 billion, 3.6 Million square foot, North Terminal Development at Miami International Airport. Arguably one of the most difficult transitional airport projects in the country, Miami Dade Aviation Authority is systematically demolishing four operational concourses and replacing them with a single terminal over a multi-year period and while continuously maintaining American hub operations.

Ross & Baruzzini was retained to develop conceptual plans for IT systems implementation, detailed premise distribution engineering and program management for the entire IT installation. The project was designed and constructed in approximately 70 separate packages. Furthermore, Ross & Baruzzini was the engineer-of-record for a \$20 million consolidated communication infrastructure project for the North Terminal. The firm provided detailed planning, construction documents and construction administration for the backbone and horizontal cabling/raceway system, including more than 70 communication rooms.

Ross & Baruzzini developed systems concepts for all electronic systems in the North Terminal including a very complex infrastructure modification, transitioning program, reviewed the concepts with Miami Dade Aviation Department and incorporated them into the Design Guidelines Manual. In addition to providing programming and conceptual design for the systems program, Ross & Baruzzini provided guidance, coordination and oversight for numerous design firms, cost and schedule monitoring and detailed construction management. Ross & Baruzzini is also the Engineer of Record for a new CCTV System throughout the new Miami International North Terminal Development project (NTD).



Key Issues and Innovative Solutions

- Successful coordination of security and technology systems required to support the >\$2 Billion terminal program, with American Airlines and Miami Dade Aviation Authority
- Development of a Phased implementation strategy to facilitate installations of new systems while maintaining existing operations.
- Installation implemented within the context of existing terminal operations and legacy systems that included the systematically demolition of four major American Airlines concourses and the replacement of airline activities into a single terminal
- Successful management of 70 separate phased delivery contracts
- Successful delivery of a wide range of security, technology and infrastructure systems consistent with established schedules and project budgets
- Providing a wide range of in-house subject matter expertise to design and manage multi- task order delivery contracts

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) ROLE Special Systems Program Management; Engineer of Record (CCTV)
b	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Saint Louis, Missouri	(3) ROLE Special Systems Program Management; Engineer of Record (CCTV)
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 7

21. TITLE AND LOCATION <i>(City and State)</i> Terminal Buildings and Parking Garages, CCTV Design Services, Phase I and II, Ft. Lauderdale Hollywood International Airport, Ft. Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007-2012	CONSTRUCTION (if Applicable) Phase I: 2008; Phase II: April 2012

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County Aviation Department	b. POINT OF CONTACT NAME Staci Montefusco	c. POINT OF CONTACT PHONE NUMBER (954) 359-6149
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

As part of a design build contract, Ross & Baruzzini is the prime consultant designer and Engineer of Record for the implementation of Phase I & II of the closed-circuit television (CCTV) monitoring system.

Phase I: Ross & Baruzzini was selected as the prime consultant/designer for the implementation of a closed-circuit television (CCTV) monitoring system for the newly relocated Communications Center. The CCTV system was designed to more effectively monitor and control security breaches or unauthorized access to secured areas throughout the various locations in the terminal and ramp areas. The design incorporated a new IP based addressable infrastructure utilizing the existing airport Ethernet LAN. It also integrated a digital video recording system (DVRs) to the new CCTV system. It also supplemented numerous cameras to the existing CCTV system throughout selected locations, included construction administration services to provide oversight and support the installation and implementation of these additional cameras.



Phase II: Ross & Baruzzini served as the designer and Engineer of Record for CCTV Phase II project providing IT, Security, and Mechanical Electrical Plumbing (MEP) design services. Ross and Baruzzini served as part of the Design-Build Team responsible for design and implementation of a CCTV System at all four Airport Terminals and all Parking Garages.

Design services included final design of CCTV system for all TSA Security Checkpoints within the Terminal Buildings, General CCTV coverage of Terminal Buildings, both airside and landside locations, and CCTV coverage for Hibiscus, Cypress, and Palm Parking Garages at Fort Lauderdale-Hollywood International Airport.

Ross & Baruzzini provided design services for the CCTV system that included 516 cameras, the telecommunications infrastructure and network, storage area network to support storage of all Phase II cameras and the existing Phase I cameras, design of a video wall at the Control Center, construction of telecommunications rooms at garages, and renovation of telecommunication rooms within the terminal.

Terminal One: Ross & Baruzzini designed the original special systems and security systems for the Terminal complex

Enterprise Wide: Ross & Baruzzini developed the Communications Infrastructure Master Plan and was responsible for various CCTV design programs.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) ROLE Security Consulting and Engineering Services
b	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> St. Louis, Missouri	(3) ROLE Security Consulting and Engineering Services
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 8

21. TITLE AND LOCATION <i>(City and State)</i> CCTV System and Related Security Upgrades, Southwest Florida International Airport, Ft. Myers, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if Applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Lee County Port Authority	b. POINT OF CONTACT NAME Gary Duncan	c. POINT OF CONTACT PHONE NUMBER (239) 590-4701
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Lee County Port Authority (Authority) selected Ross & Baruzzini to provide Professional Services for the Perimeter Intrusion Detection System Project at Southwest Florida International Airport (RSW).

The Perimeter Intrusion Detection System (PIDS) was designed to be part of the CCTV System and Related Security Upgrade Project for the Southwest Florida International Airport (RSW) in Ft. Myers which will provide an integrated intrusion detection system. The intent of this project is to provide a single integrated PIDS that integrates layered PIDS sub-systems to achieve a high Probability of Detection (PD) with a low Nuisance Alarm Rate (NAR).

This PIDS Project includes the integration with the Surveillance System Video Management System (VMS) to be provided as part of the overall project, with the VMS serving as a single point of interface for the PIDS sub-systems that correlates the alarms from individual intrusion detection sub-systems and allows for automated intelligent alert and alarm verification, alarm monitoring, recording, and control.



The PIDS Project includes a Video-based Perimeter Intrusion Detection Sub-system (PIDS-V) and a Fence electronic Perimeter Intrusion Detection Sub-system (PIDS-F). These systems comprise the detection sub-systems for the overall PIDS and integrate with existing microwave gates to secure the 8-mile airport perimeter. Zone-based alarm correlation is utilized to integrate the sub-systems. The perimeter fence is divided into approximately 60 individual detection zones in which the VMS correlates sub-system detection alerts into general alarms. The PIDS-F is to be comprised of Fence-mounted sensing fiber; and the PIDS-V is to be comprised of 37 CCTV type PTZ cameras, 60 thermal imaging fixed-type cameras, video analytics, design for 30 poles to support cameras, and software integrations with the VMS.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) ROLE Security Consulting and Engineering Services
b	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> St. Louis, Missouri	(3) ROLE Security Consulting and Engineering Services
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 9

21. TITLE AND LOCATION <i>(City and State)</i> Access Control Management System (ACMS), Dallas Ft. Worth International Airport, Dallas, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013-2015	CONSTRUCTION (if Applicable) 2015

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Dallas Ft. Worth International Airport	b. POINT OF CONTACT NAME Michael Wahl	c. POINT OF CONTACT PHONE NUMBER (972) 973-5353
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Ross & Baruzzini provided consulting services to support the Airport's Information Technology, communication infrastructure and security projects. Under this contract, Ross & Baruzzini defined the implementation approach within the framework of achieving compliance with DFW stakeholder's requirements, the AAIE Biometric Airport Security Identification Consortium (BASIC) Concept of Operations, and associated Federal and RTCA 230 standards. Work included identifying key stakeholder issues regarding implementation of ACMS, documenting the current credentialing/ identification workflow process, determining systems to interface to the new system, and proposing a new automated ID management and credentialing issuance workflow.

In addition, Ross & Baruzzini developed a phased implementation plan to allow for transition of system and operational models and a high-level capital and O&M cost estimate for the program phases including Return on Investment and risk evaluation factoring. The ACMS Implementation Plan addressed regulatory requirements, operational requirements and enhanced level of service objectives for the Airport Access Control System identity management and credentialing issuance process. The process entails badge application, enrollment, adjudication and issuance, as well as compliance and reporting for the DFW aviation worker badge population. The resulting Implementation Plan established a roadmap for achieving the long term ACMS goals of the Airport using the AAIE BASIC Concept of Operations as a guideline for the operational models for the AACCS identity management and credentialing process.



Key Issues and Innovative Solutions

The Access Control Management System (ACMS) is the central data system for all badge-holders at DFW Airport. The system has numerous interfaces to other systems used as part of the business process. Because of the complexity and interdependencies, it was necessary to work with the DFW Airport Board to document their systems and design the business process for the ACMS. It was important to not only understand the interdependencies, but also understand the data sources for the data in the system as well as understand the users of the data. For example, the ACMS will be one of the primary data sources on personnel for the DFW Airport Operations Center (AOC), but only select data can be made available based on the business and privacy rules that applies to in-depth biographic data.

In addition to the business processes, the overall data security and the location of the servers was carefully considered to provide appropriate safeguards while also allowing for advanced functions such as user web portals, credit card payment processes (PCI compliance), CHRC and STA checks, and internal DFW business requirements.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Ross & Baruzzini, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Saint Louis, Missouri	(3) ROLE Security Consulting Services
b	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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.)

20. EXAMPLE PROJECT KEY NUMBER 10

21. TITLE AND LOCATION (City and State)

Terminal Modernization Program, Hartsfield Jackson Atlanta International Airport, Atlanta, GA

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2017-On-going

CONSTRUCTION (if Applicable)
2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Hartsfield Jackson Atlanta Airport

b. POINT OF CONTACT NAME

**Keith Jackson, CM, ACE
Airport Security Manager**

c. POINT OF CONTACT PHONE NUMBER

(404) 382-2170

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

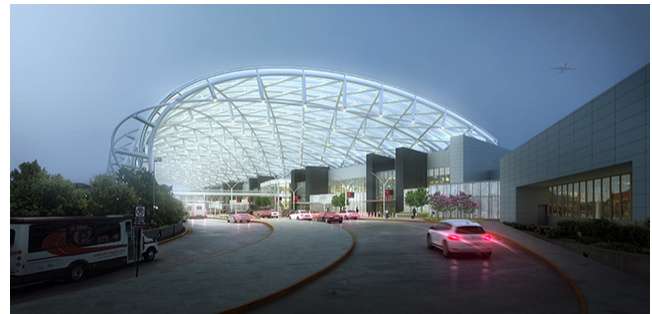
Ross & Baruzzini is currently providing IT and security design for the "ATL Next," Program, the \$6 billion capital expansion and makeover program that will update the domestic terminal and concourses, introduce new features like a hotel and add a concourse and runway to the world's busiest airport. Design for the project includes:

- Access Control System Update
 - ✓ Relocation of Door Controller to Communication Rooms, Door Device Set Refresh for 1400 portals
- TSA Queuing security
 - ✓ Adjustment of Cameras for new PAX screening Queuing
- Expansion of Network, DAS and WiFi systems
 - ✓ Expansion of Airport networking
- MUFIDS Displays in Domestic Terminal
 - ✓ New 5mm LED BIDS for Baggage Lobby
 - ✓ New 84-inch 4K LCD screens for Baggage Claims
 - ✓ Refresh of 40-inch FIDS/BIDS

The project includes the complete update of the Access Control and CCTV systems in an active airport environment and included technology enhancements to the TSA screening spaces within the airport. This project involved complex phasing and migration of legacy systems while maintain the overall security and operations of the airport.

Key issues and Innovative Solutions

Phasing of the overall work facilitated the proof of concept prior to a site-wide implementation, fine tuning the process prior to implementation in critical areas. Phasing the construction by area enabled shop drawings to follow the construction schedule. Shop drawings are to be submitted and reviewed for each phase individually, reducing the up-front time required for shop drawing creation by the contractor by limiting the area required for each submittal. Changes based on shop drawing comments were incorporated on subsequent phases without requiring a rework of the entire facility.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a	Ross & Baruzzini, Inc.	St. Louis, Missouri	Planning, Information Technology, and Security Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Zemp Pepper, P.E.	Project Manager, Senior Mechanical Engineer	X		X		X					
Sandeep Singh, P.E.	Principal-in-Charge	X	X	X	X	X					
Sean Day, P.E.	Electrical Engineer			X							
Carl Johnson II, E.C., A.C.E.	Senior Electrical Designer		X	X	X						
Mark Goodacre, A.C.E.	Senior Electrical Designer		X	X	X						
Robert Pringle	Electrical Engineer	X	X	X	X	X					
Michael Coppage, P.E.	QA/QC, Construction Management										
Sarah Breen, P.E.	Mechanical Engineer					X					
Mary Soderstrum, AIA, NCARB	Senior Airport Planner			X		X					
Luca DelVerme, P.E.	Structural Engineer					X					
Michael Zoia, CPP, RCDD, PSP	Security Engineer, QA/QC							X	X	X	X
Raji George Sayegh, PE, RCDD, DCDC, LC, LEED AP	Systems Engineer - Technology Systems										
David McGhee	CCTV and Access Control						X	X	X	X	X
Ann Barry	Airport Credentialing and Identification								X	X	
Ruben Barreiro	IT and Security; Radio Communications										
Michael Shea, AIA	Architect										
Peter Barts	Environmental, Hazardous Waste										

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	South Terminal Complex, Phases II and III-RAC Parking Garage, Orlando International Airport, Orlando, FL	6	North Terminal Development, Special Systems Program Management, Miami International Airport, Miami, FL
2	New AOA Fast Access Gate, Gate E-50, Orlando International Airport, Orlando, F	7	Terminal Buildings and Parking Garages, CCTV Design Services, Phase I and II, Ft. Lauderdale Hollywood International Airport, Ft. Lauderdale, FL
3	Terminal B Expansion, Orlando Sanford International Airport, Sanford, FL	8	CCTV System and Related Security Upgrades, Southwest Florida International Airport, Ft. Myers, FL
4	Security Fencing Phase III, Sebring Regional Airport, Sebring, FL	9	Access Control Management System (ACMS), Dallas Ft. Worth International Airport, Dallas, TX
5	Customs and Border Protection Facilities, St. Pete-Clearwater International Airport, Clearwater, FL	10	Terminal Modernization Program, Hartsfield Jackson Atlanta International Airport, Atlanta, GA

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.



AVCON, INC. (AVCON) is a full-service engineering and planning firm specializing in airports, transportation facilities, and site development projects. With over 29 years of airport general consulting, on-call services, design and planning experience at multiple airports through the Southeast, AVCON's staff of over 90 professionals has completed essentially every type of airport project. These projects range from airport master plans and condition assessments to airfield pavement designs, lighting and NAVAIDs, hangar developments, security and access control projects, roadway designs, and utility and storm water improvements. AVCON also provides special services related to airfield lighting evaluation, lightning protection and electrical vault arc-flash and capacity studies utilizing in-house testing equipment and fully-trained staff.

AVCON's MEP Team has extensive design experience with HVAC systems, plumbing, fire protection, electrical power, lighting and low voltage systems. AVCON has provided a full breadth of MEP and Fire Protection support for terminal and other building projects at Orlando International Airport, Greenville-Spartanburg International Airport, and Gainesville Regional Airport, among others. In addition, AVCON's MEP staff has completed several projects at Tyndall Air Force Base, Hurlbert Field, Homestead Air Reserve Base, and Eglin Air Force Base. Over the last six years AVCON's MEP Team has completed over 30 MEP and Fire Protection projects for a major Central Florida theme park and has worked successfully with their facilities department.

All design work will comply with City and County standards, OSHA requirements, and local codes. Typical HVAC, Plumbing, and Electrical services provided by AVCON include:

- Detailed layouts of equipment and piping as well as any flue or generator exhaust systems
- New chilled water air handlers and VAV terminals
- New split system heat pump units
- New exhaust fans and/or replacement of existing exhaust fans where equipment is not functional
- Potable hot and cold water, sanitary, and vent connections
- Water distribution, compressed air system, sanitary sewer, and plumbing fixtures
- Circuiting, electrical services, power distribution, branch circuits, and lightning protection
- New panel boards and main distribution boards
- Panel schedules for new panel boards and for existing panels indicating required modifications
- Power system studies including short circuit studies, protective device coordination and arc flash risk assessment
- Solar farm design including photovoltaic system installation and pv-modules specifications
- Lighting design and preparation of a light fixture schedule and photometrics
- Internet Protocol (IP) security cameras and access control networks
- Fiber optic infrastructure, wireless networks, and traditional copper networks
- Fire alarm design including smoke detection, pull stations and notification devices

AVCON's MEP projects are designed using AutoCAD and Revit.

AVCON has recent and relevant experience with securing an airport's perimeter and critical facilities using security cameras and access control networks for pedestrian and vehicle points of entry. This experience includes fiber optic infrastructure, wireless networks, and traditional copper networks in concert with video recording, access control, badging, and head end network equipment. AVCON has also provided designs to interface new access control elements with existing networks. All designs are completed in accordance with the National Electrical Code (NEC) and include surge suppression, lightning protection, grounding and bonding of the electrical systems, and protection from vehicle damage.

AVCON is certified by the State of Florida Board of Professional Engineers, certified as a Minority Business Enterprise by the State of Florida Office of Supplier Diversity, certified as a Disadvantaged Business Enterprise through the Uniform Certification Program, and pre-qualified by the Florida Department of Transportation in sixteen different planning and design work areas.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

A handwritten signature in black ink that reads "Sandeep Singh".

32. DATE

August 2, 2017

33. NAME AND TITLE

Sandeep Singh, P.E., President / Principal-in-Charge

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
167-0339-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 AVCON, INC.			3. YEAR ESTABLISHED 1988	4. DUNS NUMBER 60-672-0266
2b. STREET 5555 E Michigan Street, Suite 200			5. OWNERSHIP	
2c. CITY Orlando	2d. STATE FL	2e. ZIP CODE 32822	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Sandeep Singh, P.E., President / Principal-in-Charge			b. SMALL BUSINESS STATUS Small Business, DBE, MBE	
6b. TELEPHONE NUMBER (407) 599-1122		6c. E-MAIL ADDRESS S_Singh@avconinc.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees	
		(1) FIRM	(2) BRANCH
02	Administrative	19	5
08	CADD Technician	23	4
12	Civil Engineer	19	9
15	Construction Inspector	8	6
21	Electrical Engineer	3	1
42	Mechanical Engineer	4	0
57	Structural Engineer	2	0
60	Transportation Engineer	3	0
	Airport Planner	2	0
	Engineering Intern	11	3
	Other Employees	0	0
Total		94	28

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
A05	Airports; Nav aids; Airport Lighting; Aircraft Fueling	6
A06	Airports; Terminals & Hangars; Freight Handling	4
B02	Bridges	4
C18	Cost Est; Cost Eng & Analysis; Param. Cost.; Forecas	1
D04	Design-Build - Preparation of Requests for Proposals	1
E02	Educational Facilities; Classrooms	1
H07	Highways; Streets; Airfield Paving; Parking Lots	6
I06	Irrigation; Drainage	1
O01	Office Buildings; Industrial Parks	1
P05	Planning (Community, Regional, Areawide & State)	1
P06	Planning (Site, Installation, & Project)	2
P13	Public Safety Facilities	1
R03	Railroad; Rapid Transit	1
R04	Recreation Facilities (Parks, Marinas, Etc.)	1
S09	Structural Design; Special Structures	1
S13	Storm Water Handling & Facilities	2
T03	Traffic & Transportation Engineering	1
U03	Utilities (Gas and Steam)	1
W03	Water Supply; Treatment & Distribution	1
Z01	Zoning; Land Use Studies	1

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

a. Federal Work	3
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- Less than \$100,000
- \$100,000 to less than \$250,000
- \$250,000 to less than \$500,000
- \$500,000 to less than \$1 million
- \$1 million to less than \$2 million
- \$2 million to less than \$5 million
- \$5 million to less than \$10 million
- \$10 million to less than \$25 million
- \$25 million to less than \$50 million
- \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	B. DATE August 2, 2017
---	----------------------------------

c. NAME AND TITLE
Sandeep Singh, P.E., President / Principal-in-Charge

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
167-0339-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 AVCON, INC.			3. YEAR ESTABLISHED 1988	4. DUNS NUMBER 60-672-0266
2b. STREET 4500 140th Avenue, Suite E105			5. OWNERSHIP	
2c. CITY Clearwater	2d. STATE FL	2e. ZIP CODE 33762	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Sandeep Singh, P.E., President / Principal-in-Charge			b. SMALL BUSINESS STATUS Small Business, DBE, MBE	
6b. TELEPHONE NUMBER (407) 599-1122		6c. E-MAIL ADDRESS S_Singh@avconinc.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees	
		(1) FIRM	(2) BRANCH
02	Administrative	19	5
08	CADD Technician	23	4
12	Civil Engineer	19	9
15	Construction Inspector	8	6
21	Electrical Engineer	3	1
42	Mechanical Engineer	4	0
57	Structural Engineer	2	0
60	Transportation Engineer	3	0
	Airport Planner	2	0
	Engineering Intern	11	3
	Other Employees	0	0
Total		94	28

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
A05	Airports; Nav aids; Airport Lighting; Aircraft Fueling	6
A06	Airports; Terminals & Hangars; Freight Handling	4
B02	Bridges	4
C18	Cost Est; Cost Eng & Analysis; Param. Cost.; Forecas	1
D04	Design-Build - Preparation of Requests for Proposals	1
E02	Educational Facilities; Classrooms	1
H07	Highways; Streets; Airfield Paving; Parking Lots	6
I06	Irrigation; Drainage	1
O01	Office Buildings; Industrial Parks	1
P05	Planning (Community, Regional, Areawide & State)	1
P06	Planning (Site, Installation, & Project)	2
P13	Public Safety Facilities	1
R03	Railroad; Rapid Transit	1
R04	Recreation Facilities (Parks, Marinas, Etc.)	1
S09	Structural Design; Special Structures	1
S13	Storm Water Handling & Facilities	2
T03	Traffic & Transportation Engineering	1
U03	Utilities (Gas and Steam)	1
W03	Water Supply; Treatment & Distribution	1
Z01	Zoning; Land Use Studies	1

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

(Insert revenue index number shown at right)

a. Federal Work	3
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- Less than \$100,000
- \$100,000 to less than \$250,000
- \$250,000 to less than \$500,000
- \$500,000 to less than \$1 million
- \$1 million to less than \$2 million
- \$2 million to less than \$5 million
- \$5 million to less than \$10 million
- \$10 million to less than \$25 million
- \$25 million to less than \$50 million
- \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	B. DATE August 2, 2017
---	----------------------------------

c. NAME AND TITLE
Sandeep Singh, P.E., President / Principal-in-Charge

ARCHITECT – ENGINEER QUALIFICATIONS

3. SOLICITATION NUMBER (if any)

167-0339-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 Ross & Baruzzini, Inc.			3. YEAR ESTABLISHED 2003	4. DUNS NUMBER 18-594-3623
2b. STREET 7200 NW 19 th Street, Suite 305			5. OWNERSHIP	
2c. CITY Miami				
2d. STATE FL		2e. ZIP CODE 33126	a. TYPE Large Corporation	
6a. POINT OF CONTACT NAME AND TITLE William H. Overturf III, PE; President			b. SMALL BUSINESS STATUS N/A	
6b. TELEPHONE NUMBER 314.918.8383		6c. E-MAIL ADDRESS boverturf@rossbar.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 Code	b. Discipline	c. No of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
2	Administrative	41		A09	Anti-Terrorism/Force Protection	4
6	Architects	8		B01	Barracks; Dormitories	6
8	CADD Technician	23	3	C11	Community Facilities	4
13	Communications Eng.	10	2	C12	Communications Systems	7
16	Construction Manager	2		C13	Computer Facilities; Service	5
21	Electrical Engineers	30	3	C15	Construction Management	6
22	Electronics Engineers	9		D04	Design-Build	5
25	Fire Protection Engineers	1		E02	Education Facilities/Classrooms	8
31	Health Facility Planners	14		E07	Energy Conservation	3
37	Interior Designer	1		F03	Fire Protection	5
42	Mechanical Engineers	23	2	H04	Heating/Ventilation/Air-	6
48	Project Managers	25	1	H09	Hospitals & Medical Facilities	8
54	Security Specialists	18		I05	Interior Design/Space Planning	4
58	Technicians/Analyst	4		L01	Labs/Med Research Facilities	7
60	Transportation Engineers	6		L05	Lighting/Interiors	4
	Commissioning	6		M05	Military Design Standards	3
	Designers	34	2	O01	Office Buildings/Industrial Parks	2
	Procurement Specialist	5		P06	Planning (Site)	2
	Transit Consultants	7		P07	Plumbing & Piping Design	5
	Interns	15	1	P13	Public Safety Facilities	6
				R06	Rehabilitation	7
				S02	Security Systems	7
				S11	Sustainable Design	5
Total		282	14			

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

6a. SIGNATURE 	b. DATE July 31, 2017
6a. NAME AND TITLE William H. Overturf III, PE; President	

ARCHITECT – ENGINEER QUALIFICATIONS

3. SOLICITATION NUMBER (if any)

167-0339-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 Ross & Baruzzini, Inc.			3. YEAR ESTABLISHED 1953	4. DUNS NUMBER 06 056 4358
2b. STREET 6 South Old Orchard			5. OWNERSHIP	
2c. CITY St. Louis			2d. STATE MO	2e. ZIP CODE 63119
6a. POINT OF CONTACT NAME AND TITLE William H. Overturf III, PE; President			a. TYPE Large Corporation	
6b. TELEPHONE NUMBER 314.918.8383			6c. E-MAIL ADDRESS boverturf@rossbar.com	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
6a. POINT OF CONTACT NAME AND TITLE William H. Overturf III, PE; President			7. NAME OF FIRM (If block 2a is a branch office)	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
2	Administrative	41	27	A09	Anti-Terrorism/Force Protection	4
6	Architects	8	8	B01	Barracks; Dormitories	6
8	CADD Technician	23	14	C11	Community Facilities	4
13	Communications Eng.	10	4	C12	Communications Systems	7
16	Construction Manager	2	2	C13	Computer Facilities; Service	5
21	Electrical Engineers	30	18	C15	Construction Management	6
22	Electronics Engineers	9	3	D04	Design-Build	5
25	Fire Protection Engineers	1	1	E02	Education Facilities/Classrooms	8
31	Health Facility Planners	14		E07	Energy Conservation	3
37	Interior Designer	1	1	F03	Fire Protection	5
42	Mechanical Engineers	23	17	H04	Heating/Ventilation/Air-	6
48	Project Managers	25	5	H09	Hospitals & Medical Facilities	8
54	Security Specialists	18	6	I05	Interior Design/Space Planning	4
58	Technicians/Analyst	4	2	L01	Labs/Med Research Facilities	7
60	Transportation Engineers	6	3	L05	Lighting/Interiors	4
	Commissioning	6	6	M05	Military Design Standards	3
	Designers	34	25	O01	Office Buildings/Industrial Parks	2
	Procurement Specialist	5		P06	Planning (Site)	2
	Transit Consultants	7		P07	Plumbing & Piping Design	5
	Interns	15	10	P13	Public Safety Facilities	6
				R06	Rehabilitation	7
				S02	Security Systems	7
				S11	Sustainable Design	5
Total		282	152			

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

6a. SIGNATURE 	b. DATE July 31, 2017
6a. NAME AND TITLE William H. Overturf III, PE; President	

Tab 2

Statements and Documents

Tab 2



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

RICK SCOTT, GOVERNOR
KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

LICENSE NUMBER
AR0012255

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2019

SODERSTRUM, MARY G
621 SHERBURN CT
ORLANDO FL 32828

ISSUED: 12/28/2016 DISPLAY AS REQUIRED BY LAW SEQ # L1612260001304

State of Florida
Board of Professional Engineers

Attests that
Luca Del Verme, P.E.

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201905370 R
P.E. Lic. No: 63055

The professional designation of
RCD®
Registered Communications Distribution Designer
is awarded to
Raji Sayegh

by BICSI® in recognition of having successfully completed
BICSI's registration and examination requirements.

1/1/2014
Issued
12/31/2016
Expires

Chair, RCS Committee
Director of Credentialing

BICSI
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

State of Florida
Board of Professional Engineers

Raji Sayegh

Witnesses,
competency and fitness to practice Professional Engineering and has complied with all requirements of the Board of Professional Engineers; therefore by virtue of the powers vested in said Board by the State of Florida, the Florida Board of Professional Engineers hereby issues this certificate of licensure numbered 78700 to practice Professional Engineering in the State of Florida as provided by the laws of the state and subject to the powers as vested in said Board.

In Testimony Whereof, Witness the signatures of the Chair and Vice Chair under the seal of the Board this 28 day of January, 2015.

Chair
Vice Chair

FBPE
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

RICK SCOTT, GOVERNOR
MATILDE MILLER, INTERIM SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

LICENSE NUMBER
AR91384

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2019

SHEA, MICHAEL EDWARD
23 BOGEY CLUB LANE
ST CHARLES MO 63303

ISSUED: 01/22/2017 DISPLAY AS REQUIRED BY LAW SEQ # L1701220001298

State of Florida Business Licensure

State of Florida

Board of Professional Engineers

Attests that
Avcon, Inc.



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

Expiration: 2/28/2019

Audit No: 228201904483 R

CA Lic. No:

5057

State of Florida

Board of Professional Engineers

Attests that
Ross & Baruzzini, Inc.



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

Expiration: 2/28/2019

Audit No: 228201902583 R

CA Lic. No:

26394

Corporate Registration

State of Florida

Department of State

I certify from the records of this office that AVCON, INC. is a corporation organized under the laws of the State of Florida, filed on May 5, 1988.

The document number of this corporation is K22990.

I further certify that said corporation has paid all fees due this office through December 31, 2017, that its most recent annual report/uniform business report was filed on January 4, 2017, 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, 2017*



Ken Detjmer
Secretary of State

Tracking Number: CC0734099771

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

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

Certificate of Florida Small and Minority Business



AVCON, INC. is a certified Disadvantaged Business Enterprise (DBE). AVCON shall exceed any DBE requirements necessary for Federal participation due to self-performance of project elements. AVCON will work with Airport/County staff to verify the appropriate team requirements and identify opportunities for DBE and W/MBE participation.



Office Locations

AVCON has an established project office located in Pinellas County. QA/QC and Construction Management Services will be provided from this office, located in Clearwater, Florida. The address is as follows:

4500 140th Avenue, Suite E105
Clearwater, FL 33762

Mr. Michael Coppage, P.E. will manage the QA/QC and Construction Management Services from the Clearwater office. He can be reached by phone at (727) 902-3938 or by email at mcoppage@avconinc.com.

All other services will be provided from AVCON's corporate headquarters located at:

5555 E Michigan Street, Suite 200
Orlando, FL 32822

Mr. Zemp Pepper will act as the primary point of contact for the AVCON Team. He can be reached by phone at (407) 599-1122 (Office) and (407) 733-8846 (Cell) or by email at ZPepper@avconinc.com.

AVCON has also enlisted the services and support of the following subconsultants for this Professional Engineering Services assignment. Their office locations are as follows:

Firm	Role / Responsibility	Office Location
Ross & Baruzzini, Inc.	Security / Access Control / Low Voltage Systems	7200 NW 19th Street, Suite 305 Miami, FL 33126
Ross & Baruzzini, Inc.	Security / Access Control / Low Voltage Systems	6 South Old Orchard St. Louis, MO 63119
HSA Golden, Inc.	Environmental, Hazardous Waste	11 Lake Gatlin Road Orland, FL 32806

Tab 3

Certificate(s) of Insurance

Tab 3



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

DESCRIPTIONS (Continued from Page 1)

Liability and Automobile Liability as required by written contract on a primary & non contributory basis. A waiver of subrogation applies in favor of Pinellas County, FL under all policies listed above. Thirty (30) days prior written notice of cancellation or material change except 10 days for non payment of premium will be given on all policies listed above. There is no exclusion for work at Airports/Airfields on the workers compensation policy or the professional liability policy.

Tab 4

Key Personnel Statement

Tab 4



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

Statement of Qualifications

Airport Security System Improvements Project –
 Professional Engineering Services
 RFP No. 167-0339-NC (SS)

KEY PERSONNEL STATEMENT

Current Workload

All members of the AVCON Team are prepared to bring forth the full resources necessary to provide for timely, responsible, and cost-effective planning and design solutions to meet the airport security system improvement needs of the St. Pete-Clearwater International Airport and Pinellas County. Most members of the team have worked together on previous assignments on Florida Airports, and are experienced in task order services on airports with highly successful results.

The AVCON Team, its key discipline and task leaders, and support staff are all committed to Pinellas County and the St. Petersburg-Clearwater International Airport and to the success of this Professional Engineering Services contract.

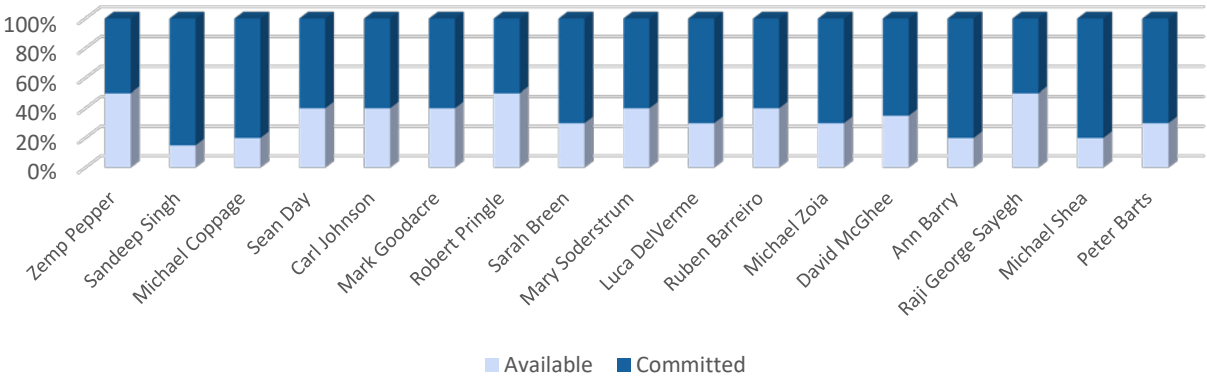
Project Manager, Zemp Pepper, will allocate a total of up to 50% of his time to the County, with 75% of that time dedicated to project management and task leadership roles, as well as being available another 25% of the time for miscellaneous and technical tasks. During critical junctures of task assignments and when specific project requirements dictate, Mr. Pepper will generally be available 100% of the time.

We guarantee that our staff and our team will meet and exceed project staffing needs.

AVCON Team Commitment

- ✓ Previous experience working together on past assignments with successful results—eliminating any learning curves and costly delays;
- ✓ Project Manager commitment;
- ✓ Ability to proactively work with clients to anticipate and respond promptly to their needs;
- ✓ Full access to technical staff and resources to meet all the needs of any project;
- ✓ Full-time involvement of personnel assigned to projects; and
- ✓ Efficient and cost-effective implementation of project design and production of construction documents.

The personnel listed in the graph below (and highlighted throughout this proposal) will be available for and shall be assigned to this Professional Engineering Services contract. AVCON understands that failure to produce the proposed key personnel may be grounds for dismissal.



Tab 5

Required Forms



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

SECTION G – ADDENDA ACKNOWLEDGMENT FORM

Proposal Title: Airport Security System Improvements Project – Professional Engineering Services

Proposal No: 167-0339-NC (SS)

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

ADDENDA NO.

SIGNATURE/PRINTED NAME

DATE RECEIVED

ADDENDA NO.	SIGNATURE/PRINTED NAME	DATE RECEIVED
1	<i>Sandeep Singh</i> / Sandeep Singh, P.E.	July 26, 2017

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 Department section of the County’s CCNA website at, <http://www.pinellascounty.org/purchase/CCNA.htm>

W-9 REQUEST FOR TAXPAYER ID NUMBER AND CERTIFICATION

Substitute Form W-9

Request for Taxpayer Identification Number and Certification

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

Name (as shown on your income tax return) AVCON, INC.
Business name, if different from above
Check appropriate box: [] Individual/Sole proprietor [X] Corporation [] Partnership
[] Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership)
[] Other (see instructions)
Address (number, street, and apt. or suite no.) 5555 E. Michigan St., Suite 200
City, state, and ZIP code Orlando, FL 32822
List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 3.

Social security number
or
Employer identification number 59 2890463

Part II Certification

Under penalties of perjury, I certify that:

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

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here Signature of U.S. person [Signature] Date August 2, 2017

*Instructions to Form W-9 available upon request.

Detach on the perforation

Section 119.071(5), Florida Statutes Notice:

Your Tax Identification Number (which for individuals is your social security number) is collected on Form W9 for use in filing information returns with the IRS as described more fully below. Collection of the tax identification number (or social security number as applicable) is mandatory pursuant to Section 6109 of the Internal Revenue Code (26 U.S.C § 6109).

Privacy Act Notice:

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

SECTION D – VENDOR REFERENCES

Proposal Title: Airport Security System Improvements Project – Professional Engineering Services

Proposal Number: 167-0339-NC (SS)

THE FOLLOWING INFORMATION IS REQUIRED IN ORDER THAT YOUR PROPOSAL MAY BE REVIEWED AND PROPERLY EVALUATED.

COMPANY NAME: AVCON, INC.

LENGTH OF TIME COMPANY HAS BEEN IN BUSINESS: 29 years (Established 1988)

BUSINESS ADDRESS: 5555 E. Michigan St., Suite 200, Orlando, FL 32822

HOW LONG IN PRESENT LOCATION: Since October 2002

TELEPHONE NUMBER: (407) 599-1122 FAX NUMBER: (407) 599-1133

TOTAL NUMBER OF CURRENT EMPLOYEES: 94 FULL TIME 0 PART TIME

NUMBER OF EMPLOYEES YOU PLAN TO USE TO SERVICE THIS CONTRACT: 10

All references will be contacted by a County Designee via email, fax, mail or phone call to obtain answers to questions, as applicable before an evaluation decision is made.

EITHER LOCAL COMMERCIAL OR GOVERNMENTAL REFERENCE(S) (PINELLAS COUNTY GOVERNMENT REFERENCES WILL NOT BE ACCEPTED) THAT YOU HAVE PREVIOUSLY PERFORMED SIMILAR CONTRACT SERVICES FOR:

All fields below must be completed

- | | |
|--|--|
| <p>1 <u>Matern Professional Engineers</u></p> <p>COMPANY NAME
<u>Maitland, FL</u></p> <p>CITY, STATE
<u>Thomas Croff</u></p> <p>CONTACT PERSON
<u>(407) 740-5020 x230</u></p> <p>TELEPHONE
<u>(407) 740-0365</u></p> <p>FAX
<u>tcroff@matern.net</u></p> <p>EMAIL ADDRESS</p> | <p>2 <u>Greater Orlando Aviation Authority</u></p> <p>COMPANY NAME
<u>Orlando, FL</u></p> <p>CITY, STATE
<u>Mark Birkebak, AIA</u></p> <p>CONTACT PERSON
<u>(407) 825-4058</u></p> <p>TELEPHONE
<u>(407) 855-3531</u></p> <p>FAX
<u>mbirkebak@goaa.org</u></p> <p>EMAIL ADDRESS</p> |
| <p>3 <u>Sanford Airport Authority</u></p> <p>COMPANY NAME
<u>Sanford, FL</u></p> <p>CITY, STATE
<u>Diane Crews, A.A.E.</u></p> <p>CONTACT PERSON
<u>(407) 585-4010</u></p> <p>TELEPHONE
<u>(407) 585-4045</u></p> <p>FAX
<u>dcrews@osaa.net</u></p> <p>EMAIL ADDRESS</p> | <p>4 <u>Sebring Regional Airport</u></p> <p>COMPANY NAME
<u>Sebring, FL</u></p> <p>CITY, STATE
<u>Mike Willingham</u></p> <p>CONTACT PERSON
<u>(863)_ 655-6444</u></p> <p>TELEPHONE
<u>(863) 441-1255</u></p> <p>FAX
<u>mike@sebring-airport.com</u></p> <p>EMAIL ADDRESS</p> |

<p>SUBMIT TO:</p>  <p>PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS 400 S. FT. HARRISON AVENUE ANNEX BUILDING – 6TH FLOOR CLEARWATER, FL 33756</p>	<h1 style="margin: 0;">REQUEST FOR QUALIFICATIONS PROPOSAL PROFESSIONAL SERVICES - NON-CONTINUING</h1> <p>AS GOVERNED BY FLORIDA STATUTE 287.055</p>
<p>ISSUE DATE: June 26, 2017</p>	<p><i>PROPOSAL SUBMITTALS RECEIVED AFTER SUBMITTAL DATE & TIME WILL NOT BE CONSIDERED</i></p>
<p>TITLE: Airport Security System Improvements Project – Professional Engineering Services</p>	<p>RFP NUMBER: 167-0339-NC (SS)</p>
<p>SUBMITTAL DUE: August 3, 2017 @ 3:00 P.M. <i>AND MAY NOT BE WITHDRAWN FOR 120 DAYS FROM DATE LISTED ABOVE.</i></p>	<p>NON-MANDATORY PRE-PROPOSAL SITE VISIT DATE & LOCATION:</p> <p>Date: Friday, July 14, 2017 Time: 10:00 A.M. Location: 14700 Terminal Blvd., 2nd Floor Conference Room Clearwater, Florida 33762</p>
<p>DEADLINE FOR WRITTEN QUESTIONS: July 21, 2017 BY 3:00 P.M. SUBMIT QUESTIONS TO: SUE STEELE, CPPB AT ss Steele@pinellascounty.org Phone: 727-464-4776 Fax: 727/464-3925</p>	 <p>Director of Purchasing</p>
<p><u>THE MISSION OF PINELLAS COUNTY</u> 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.</p>	

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.

<p>PROPOSER (COMPANY NAME): AVCON, INC.</p>	<p>D/B/A N/A</p>
<p>5555 E. Michigan St., Suite 200</p>	<p>Orlando, FL 32822</p>
<p>Mailing Address</p>	<p>City, State Zip</p>
<p>S_Singh@avconinc.com</p>	<p>(407) 599-1122 (407) 599-1133</p>
<p>Company Email Address</p>	<p>Phone Fax</p>
<p>Sandeep Singh, P.E.</p>	<p>Sandeep Singh, P.E./President/S_Singh@avconinc.com</p>
<p>Remit To Name (as Shown on Company Invoice)</p>	<p>Printed Contact Representative/Title/Email</p>

Proper Corporate Identity is needed when you submit your proposal, especially how your firm is registered with the Florida Division of Corporations. Please visit www.sunbiz.org for this information.

I HEREBY AGREE TO ABIDE BY ALL TERMS AND CONDITIONS OF THIS RFP & CERTIFY I AM AUTHORIZED TO SIGN THIS RFP FOR

	<p>Sandeep Singh P.E., President</p>
<p>AUTHORIZED SIGNATURE</p>	<p>PRINT NAME & TITLE</p>

RETURN THIS FORM WITH YOUR PROPOSAL

SECTION F ELECTRONIC PAYMENT

Proposal Title: Airport Security System Improvements Project – Professional Engineering Services

Proposal No.: 167-0339-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 company accept to participate in the ePayables credit card program?

Yes

No

AVCON, INC.

Company Name



Authorized Signature (for payment acceptance)

Sandeep Singh, P.E./President

Printed Signature/Title/Department

(407) 599-1122

Phone Number

Tab 6

Additional Information



**Airport Security System Improvements
Project - Professional Engineering Services**

RFP No. 167-0339-NC (SS)

Statement of Qualifications

Airport Security System Improvements Project –
Professional Engineering Services
RFP No. 167-0339-NC (SS)

ADDITIONAL INFORMATION

Project Approach

Design Services: The AVCON and Ross and Baruzzini Team brings extensive relevant experience at Florida Airports to support PIE in its efforts to upgrade the existing Security System at the Airport. As part of the basic design and engineering scope of services, the AVCON and Ross & Baruzzini Team will develop a **Basis of Design** for the project. The Basis of Design will consist of a Security Systems Master Plan outline as well as an Implementation Strategy that can support upgrading PIE's Systems consistent with:

- a) FAA and TSA standards and guidelines,
- b) Airport current and longer-term operational requirements, and
- c) Industry best practices and standards.

Basis of Design will consist of a Security Systems Master Plan outline as well as an Implementation Strategy that can support upgrading PIE's Systems

The initial steps to developing a staged security systems implementation program will include surveying operational functionality and capacity of the existing access control, CCTV surveillance, and video management systems. The existing systems shall be compared to current industry best practices needed to support increased passenger traffic, terminal expansion, and overall growth of the Airport. Based upon this assessment, the team will develop recommendations for systems expansion and/or migration from existing legacy systems to new and commercially available system applications consistent with the established Program Budget. The recommendations will identify phased implementation including expansion of the network architecture and premises distribution systems. In addition to the assessment of the access control, CCTV surveillance and Video Management Systems, the team will assess requirements for proposed improvements to Perimeter Security, Security Corridors and Exit Lanes, Credentialing and Identification, Public Safety Radio communications, and refreshing and updating the airport's security operations center. The review and approval of the AVCON Team's findings, conclusions and recommendations would form the Basis of Design for the initial program and subsequent design and engineering tasks.

Project Development: Project development begins with a commitment to proven administrative procedures. The following are highlights of these procedures established and utilized on AVCON projects:

- **Administrative Procedures:** Over the years of successful project management AVCON has developed in-house procedures that ensure accuracy, timeliness and cost-effectiveness of all work performed during the project. In addition to the specific examples identified below AVCON also has a written Quality Assurance / Quality Control Plan discussed briefly later in this section. The procedures are modified and adapted to meet the needs of large or small projects and for the specific elements of design included in the project.
- **Scope Development:** AVCON will meet with the Airport/County project representative to fully identify and reach a complete accord on the terms of the scope, schedule and budget for each task. Because many projects begin with a "symptom" and not a "cause," defining the appropriate project scope is critical to keep all levels of expectations on track for each task. This will continue to be a key step in identifying any possible elements that could prevent "future scope creep." This step also applies to coordination between sub-consultants and within various disciplines. AVCON utilizes standard scopes and checklists for this process and some enhancements will be developed for the MEP subset of engineering services. A thorough scope development not only ensures the project has "limited or no surprises" but also becomes the basis of a project "work plan."

- **Field Review and Record Drawings:** In conjunction with the scope development, or immediately upon issuance of a project design task, the AVCON senior engineers will perform both a thorough field review of the project, and obtain all pertinent record documents from the Airport/County’s archives. These records are invaluable when new projects are conceived on the same real estate occupied by older ones. This step is to identify any “key issues” on what could sometimes be a relatively straight-forward project. Field reviews also identify issues that may not be in the scope but could be addressed easily for the client as part of the project.
- **Work Plan:** AVCON will develop a complete work plan for each task prior to starting work on each task; Use of similar past project data and lessons learned on those projects are used to develop an efficient and effective work plan.
- **Work / Discipline Coordination:** AVCON conducts coordination between various disciplines and sub-consultants at each stage of design including during construction. As the firm has in-house expertise in all engineering disciplines there is ready access to solutions to inter-disciplinary issues or conflicts.
- **List of Drawings and Specifications:** A complete list of drawings and specifications will be prepared for each assignment. Where the project entails a study or other non-design function, a complete table of contents will be developed. These lists are critical to ensure the completeness of planning or construction documents and full concurrence by the Airport/County staff.
- **Periodic and Final Field Walkthrough with Plans:** As part of both the progress and final submittals, the plan sheets will be field verified by the AVCON engineers independently or in conjunction with Airport/County Staff to ensure final documents are compatible with the adjacent conditions in the field. Use of actual photographs on the drawings to identify field conditions and call out improvements have been valuable in developing thorough construction plans.
- **Project Filing and CADD Layer Management:** AVCON has in the past and will continue to provide all design and record documents in conformance with the Airport/County’s standards. We will continue to utilize our tried and tested design details and other AutoDesk support systems such as Revit.

Systematic Design Approach: Once the design approach, phasing and implementation strategy, and the design parameters are established, the overall design can begin. We accomplish this through the implementation of a proven, step-by-step process from preliminary design through construction closeout documentation. The initial project overviews and record drawings reviews will be supplemented by specific field reconnaissance.

The preliminary design and document preparation will include an appropriate mix of detailed final design for facility plan demolition and design improvement sheets, as well as HVAC, plumbing, communications, electrical, fire protection, and special details where warranted, along with overall construction phasing, access and implementation features that will minimize impacts on daily operations at PIE. Integration with on-going adjacent projects will be a keystone element of each task. The design development will be followed by complete Final Design, Bidding and Construction Phase Services to ensure that the original design intent is achieved in the final construction.

AVCON will organize a project kickoff coordination meeting/workshop with the appropriate Airport/County Engineering, Maintenance and Construction Staff, and all other affected or interested parties. This meeting will serve as a pre-development conference to fully examine the direction and scope of the project from all stakeholder perspectives.

Pre-Construction Services: The continuation of the AVCON Team effort will be provided through the Pre-Construction and Construction Phase Services. These services will allow the design professionals to interface with the Resident Inspection team to continue possible interpretation of plan or specification requirements. In addition to post-design pre-construction engineering services, AVCON has several aviation specific, full-time resident construction inspectors who are available when needed.

Bidding: AVCON, INC. shall provide Bidding Services including coordination of the formal advertisement and solicitation for Bids from the Contracting Community, response to contractor inquiries during the bidding process, preparation of addenda as required, attending the Pre-Bid Conference, preparation of the bid tabulation sheet, evaluation of the bids, and making a Formal Recommendation of Award.

Scheduling: AVCON, INC. shall prepare a Project Schedule for the tasks listed in the Scope of Services. The Schedule shall be presented to the Airport/County for approval and to insure it meets the Airport/County’s expectations. AVCON, INC. shall conduct team meetings on a regular basis during the design phase to insure the schedule is being met and that the subconsultants are performing optimally.

Management Systems/Procedures/Reporting Systems: AVCON, INC. shall provide Project Management Services as coordinated with the Airport/County. These services where required shall include Programming, Design Phase Services, Bidding Services, Construction Phase Services, Project Close-Out, Technical Support for Claims Services, and Post Construction Services. Project meetings shall be held periodically with the team during the design phase and with the prime contractor during the construction phase. Meeting minutes shall be furnished to all attending parties and the Airport/County succinctly and in a timely manner. AVCON, INC. shall notify the owner promptly of potential delays to the completion or work.

Quality Control: AVCON, INC. has a Quality Assurance / Quality Control Plan for all projects it undertakes. The plan is modified and adapted to meet the needs of large or small projects and for the specific elements of design included in the project. For this continuing contract, AVCON will tailor the QA/QC plan to address specific project needs. The Quality Assurance / Quality Control Plan itself consists of the elements as described below:

Project Coordination and Communication: The Project Manager will assure that all members of the design team, including the client, are continually updated on the project’s status and assignments. This will be achieved in many ways, including the following:

- In-House Project Coordination Meetings
- Team Meetings
- Electronic Communication

In-House Review: The Department Manager, Project Manager, or Sr. Engineer will perform the in-house review. This review should identify and eliminate plans errors and omissions, and ensure that plans comply with the scope and other support documents in the file. The in-house review will be as detailed as possible to ensure that there are absolutely no plans errors. The reviews and responses will be collated for reference and use. Items reviewed include:

- Comparison of supporting documents with plans to ensure that applicable recommendations and design studies have been appropriately addressed.
- Comparison of plans with pertinent standards and policies to ensure that they are in full compliance (Airport/County Standards, Florida Building Code, City of Clearwater Ordinances, NEC, NFPA, ASHRAE, etc.).
- Interdisciplinary review to ensure that the documents are coordinated between distinctive design groups.

Quality Control Plan:

- **QC Checklists:** Technical reviews shall be performed at each submittal by means of quality checks. Upon receipt of the checklist and comments, the designer will respond to the comments as appropriate. These documents will then be returned to the reviewer for final resolution. The reviewer will review the documents to be assured that all comments have been resolved. Each resolved comment will be highlighted by the reviewer to symbolize that the comment has been resolved.
- **Peer Reviews:** Peer reviews shall be conducted to ensure strict compliance with scope and supporting documents, and confirm the need for design variances or exceptions. The peer reviewer also ensures that appropriate design documentation is filed for all decisions made during the design process. Occasionally we may also look to vendors or others to provide technical support to ensure the latest technology and selected approach remains pertinent and viable for the project.

QUALITY CONTROL TRACKING STAMP (single reviewer)	
QC DOCUMENT:	
QC REVIEW ACTIVITY	
1. READY FOR REVIEW	LTP: _____ Date: _____
2. QC REVIEW <small>(Yellow highlight = correct/verified) (Red = correction)</small>	REV: _____ Date: _____
4. CHANGES MADE <small>(Yellow highlight over red comment = change made to address comment)</small>	ORIG: _____ Date: _____
5. CHANGES VERIFIED <small>(Green circle = change addresses comment) (Green circle = accept rejected comment) (Green circle = accept address in future submittal comment)</small>	REV: _____ Date: _____
<small>LTP = Lead Technical Professional, REV = Reviewer, ORIG = Originator</small>	
AVCON, INC.	



- **Constructability Reviews:** In addition to AVCON’s in-house QA/QC Plan, we will utilize an experienced engineer to conduct independent constructability reviews of our plans and specifications, adding value engineering to the project from its inception.

The subconsultants on the project shall be expected to have their own quality assurance process and will be required to demonstrate this in written form. In addition, as the Prime firm and the firm ultimately responsible to the Client for all work products, AVCON shall apply its own standards of quality prior to releasing the work product to the Client.

AVCON has in its Quality Manual detailed checklists for both intra-disciplinary and inter-disciplinary reviews. These checklists, developed over the years, are kept updated through an ongoing process. The ultimate result of this rigorous process is that most all conflicts, errors or omissions are discovered well before they can result in cost increases or avoidable delays. Our track record speaks volumes to the effectiveness of this process.

Cost Control: Actions speak louder than words. Over the past several years, most AVCON projects were closed out at a value less than the bid amounts. AVCON has carefully tracked project designs, utilized bid schedules, paid attention to detail, and supported construction proactively to ensure project costs are contained without sacrificing quality. Detailed cost estimates at each stage of a project submittal and use of alternates ensure the project costs stay within budget. Additionally, AVCON regularly solicits contractors/manufacturers to ensure the broadest possible participation in the bid phase.

Regulatory Issues: AVCON, INC. shall review the Construction Documents and compare them with pertinent standards and policies to ensure that they are in full compliance. Coordination with jurisdictional and regulatory agencies shall be conducted as needed to address and implement all necessary requirements. Permitting services will be provided including responding to comments from the reviewing agency and submission of revised documents addressing any code related items. For typical MEP and Fire Protection items, these routinely consist of compliance with local, state and federal design guidelines. AVCON has performed its previous work using many if not all of these same agencies.

Project Closeout and Completion: AVCON will conduct a final inspection / walk-through of the project to confirm the completeness and quality of the construction. AVCON will then prepare a summary report of the final inspection, including a punch list of work items that the contractor must accomplish to complete the project. AVCON will also provide the punch list report to the Construction Manager.

AVCON will prepare record drawings representing the completed project and reflecting the actual work accomplished during construction. The record drawings will then be distributed to the Airport/County in electronic format (PDFs, AutoCAD, Revit).

Final documents shall include reviewed and approved O&M Manuals, Warranties, Spare Parts Lists and approval of materials and equipment operations.





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