

Attachment A - Mandatory Questions

Mandatory Questions

These questions are Pass/Fail. To be considered responsive, responsible and eligible for award, you must answer all questions in this section.

DO NOT INCLUDE ANY COST INFORMATION IN YOUR RESPONSE TO THIS WORKSHEET.

Question #	Questions per Proposal Factors/Categories	Response by Offeror. Only Yes or No Answers	Upload Attachments ?	Attachment Name
Proposal Factors				
1	List any criminal violations and/or convictions of the Proposer and/or any of its principals: (N/A is not an acceptable answer).	None	IF YES	
2	Completed and uploaded PSL Location Form	Yes	IF YES	File 4_Attachment D - Other Mandatory Documents_FINAL
3	Is firm a minority business?	No	IF YES	
4	Is the firm incorporated? Yes--No If yes, in what state?	Yes	No	Florida
5	List any judgements from lawsuits in the last five (5) years: (N/A is not an acceptable answer).	None	IF YES	ISS has not been involved in any litigation, disputes, default, or liens since our firm's inception and we have not had any project issues that resulted in a claim to any of our clients. ISS has a very strong quality assurance / quality control (QA/QC) program that has helped protect all our clients from any project issues that might result in a legal claim. Further, we make every effort to hire people of the highest integrity and with a commitment to excellence in service to our clients.
6	List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10%) interest: (N/A is not an acceptable answer).	None	IF YES	See cell 10 E above.
7	Has the Proposer or any of its principals ever been declared bankrupt or reorganized under Chapter 11 or put into receivership?	No	IF YES	
8	Submitted all licenses and certifications required to perform this project.	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 4
9	Submitted a copy of their Insurance Certificate for the type and dollar amount of insurance they <u>currently maintain</u> .	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 12
10	Completed and uploaded E-Verify Form	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 63
11	Completed and uploaded Drug Free Workplace Form	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 66
12	Completed and uploaded Consultant Code of Ethics	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 61
13	Completed and uploaded Non-Collusion Affidavit	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 64
14	Completed and uploaded Cone of Silence Form	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 59
15	Completed and uploaded Truth-In Negotiation Form	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 67
16	Submit W-9	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 13
17	Completed and uploaded Mandatory Scored Questions	Yes	Yes	File 2_Attachment B - Mandatory Scored Questions_FINAL
18	Completed and uploaded Contractor General Information Worksheet.	Yes	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 56

Attachment B - Mandatory Scored Questions

Mandatory Scored Questions

Offerors must answer all the questions in this spreadsheet in the cell provided.

Failure to answer these questions will result in disqualification of the proposal.

Offerors must indicate whether their proposal meets the individual requirement and provide a supporting narrative in the space provided. The narrative description, along with any required supporting materials, will be evaluated and awarded points in accordance with Section 6 "Proposal Evaluation, Negotiations and Award" of this eRFP. ONLY upload documents if there is a Yes in the "Upload Attach with Additional Information?" column, to provide additional information about specific questions. Documents not requested in this column will not be evaluated.

DO NOT INCLUDE ANY COST INFORMATION IN YOUR RESPONSE TO THIS WORKSHEET.

Question #	Questions per Proposal Factors/Categories	Response by Offeror	Upload Attachments?	Attachment Name
1	Please provide all documentation needed for Location. Proposer's Location - Location shall mean a business which meets the following criteria: # of Miles from City Hall to Assigned Staff's Office location! 0-60 Miles 61-80 Miles 81-100 Miles 101-120 Miles 121-140 Miles 140+ Miles	Infrastructure Solution Services' (prime engineering firm) headquarters office from which the majority of the work will be performed is located ~70 miles from the City of Port St. Lucie Utilities offices.	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL, Page 14
2	Woman/Veteran/Minority Owned Business - Does the Primary firm hold a Minority Business Certification by the Florida Department of Management Services, as described in section 8 of the document? If so, please attach.	ISS is a small business certified through the Small Business Administration (SBA); however, the firm is not a minority business enterprise in accordance with Florida Statute. The following subconsultants on the ISS Team are certified in the State of Florida, copies of certifications can be provided upon request. ISS would also welcome the opportunity to work with other W/V/MOB vendors on this City of Port St. Lucie contract as desired by the City. • Radise International, Inc. • Susan Hall Landscape Architecture, LLC	None	None
3	EXECUTIVE SUMMARY - This section should include the Firm's overall concept of the working relationship that will be required to successfully complete this project. The proposer shall provide an executive summary narrative containing information that indicates an understanding of the overall need for and purpose of the services presented in the RFP.	Please see File # 4, page 15	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
4	GENERAL SCOPE OF SERVICES - Provide a general description of the types of services your firm is capable of providing.	Please see File # 4, page 20	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
5	PROGRAM MANAGEMENT SERVICES - Provide a description of the program management services your firm can provide.	Please see File # 4, page 21	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
6	PLANNING SUPPORT - Describe the types of planning your firm can provide.	Please see File # 4, page 30	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
7	QUALIFICATIONS & STAFF/PERSONNEL - Please complete and attach Form 330 part I and II for evaluation of qualifications & staff/personnel.	The completed SF330 has been uploaded as required in the City's RFQ. ISS has also included a table that demonstrates a high-level overview of our project team's qualifications in File # 4 on page 31.	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
8	DESIGN SUPPORT - Provide a list of at least 5 but no more than 10 projects within the last 5 years that your firm has done and describe what types of projects and services your firm provided.	Please see File # 4, page 32	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
9	CONSTRUCTION ENGINEERING AND INSPECTION SERVICES - Describe the CEI services your firm can provide.	Please see File # 4, page 47	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
10	GRANT & LOAN FUNDING SUPPORT - Provide examples of grants and loans your firm can provide.	Please see File # 4, page 48	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
11	MISCELLANEOUS - Provide a description of additional services your firm can provide.	Please see File # 4, page 50	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL
12	ABILITY TO MEET SCHEDULE AND BUDGET REQUIREMENTS - Describe how you manage projects in order to meet schedule and budget requirements.	Please see File # 4, page 53	Yes	File 4_Attachment D - Other Mandatory Documents_FINAL

PART I - CONTRACT-SPECIFIC QUALIFICATIONS						
A. CONTRACT INFORMATION						
1. TITLE AND LOCATION (<i>City and State</i>) Continuing Engineering Services for Utility Projects						
2. PUBLIC NOTICE DATE July 16, 2021			3. SOLICITATION OR PROJECT NUMBER eRFP Number: 20210093			
B. ARCHITECT-ENGINEER POINT OF CONTACT						
4. NAME AND TITLE Brian M. Stahl, P.E., Managing Member						
5. NAME OF FIRM INFRASTRUCTURE SOLUTION SERVICES, LLC. DUNS NO. 078567854						
6. TELEPHONE NUMBER (321) 622-4646		7. FAX NUMBER (321) 256-5088		8. E-MAIL ADDRESS BStahl@infrastructureSS.com		
C. PROPOSED TEAM (Complete this section for the prime contractor and all key subcontractors.)						
--	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR	--	--	--
a.	X			Infrastructure Solution Services <input type="checkbox"/> CHECK IF BRANCH OFFICE	7175 Murrell Road Melbourne, FL 32940	<ul style="list-style-type: none"> Professional Engineering Design Services Project / Program Management Scheduling Water-Wastewater Engineer-of-Record Permitting & Regulatory Compliance Preparation of Engineering / Design Plans and Specs Plans / Studies / Evaluations / Assessments Modeling / GIS Cost Estimating / Value Engineering Bidding Services Construction Observation / Inspection / Administration Surveying & Mapping GPS / Aerial Photogrammetry QA/QC Funding Assistance & Public Involvement
b.			X	Jacobs <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3300 PGA Boulevard # 780 Palm Beach Gardens, FL 33410	<ul style="list-style-type: none"> Professional Engineering Design Services Project / Program Management Permitting & Regulatory Compliance Funding Assistance Plans / Studies / Evaluations / Assessments Asset Management Construction Observation / Inspection / Administration

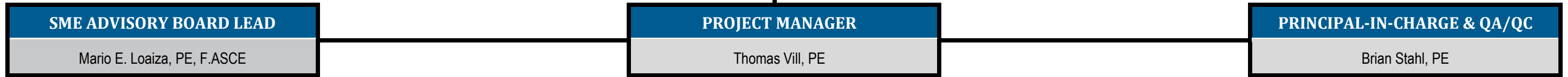


--	<i>(Check)</i>			9. FIRM NAME --	10. ADDRESS --	11. ROLE IN THIS CONTRACT --
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
c.			X	RADISE International, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	4152 West Blue Heron Blvd., Suite 1114 Riviera Beach, FL 33404	• Geotechnical Engineering
d.			X	Susan Hall Landscape Architecture, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	4425 Crooked Mile Rd. Merritt Island, Florida 32952	• Landscape Architecture Services
e.			X	Atlantic Environmental of Florida, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	657 Montreal Avenue Melbourne, Florida 32935	• Environmental Research and Support
D. ORGANIZATIONAL CHART OF PROPOSED TEAM						<input checked="" type="checkbox"/> (Attached)



Organizational Chart of Proposed Team

CITY OF PORT ST. LUCIE, FLORIDA



PROJECT TEAM BY CATEGORIES OF WORK		
DESIGN SUPPORT	PROGRAM MANAGEMENT, PLANNING, FUNDING, & CEI SUPPORT	MSICELLANEOUS SUPPORT
<p>WATER / WASTEWATER TREATMENT FACILITY ENGINEERING Clayton McCormack, PE; Rafael Vasquez-Burney, PE; GJ Schers, PMP</p> <p>WATER / WASTEWATER DISTRIBUTION / COLLECTION & TRANSMISSION SYSTEM ENGINEERING Kiran Kulkarni, PE; Robert Van Vonderen, PE; Rudy Fernandez, PE; Marlene Trier, MS, EI</p> <p>CONCENTRATE / TREATED EFFLUENT LINES ENGINEERING Stephen Burwinkel, PE; Rafael Vazquez-Burney, PE</p> <p>ELECTRICAL / SCADA ENGINEERING Gary Yocum, PE; Bernie Jacobsen, PE, PMP</p> <p>STRUCTURAL ENGINEERING Tom Williams, PE; Bhushan Godbole, PE</p> <p>GEOTECHNICAL ENGINEERING Radise International, LLC = Andrew Nixon, PE; Tom Mullin, PE</p> <p>STORMWATER RELATED TO UTILITIES Fariborz Zanganeh, PE</p> <p>LANDSCAPE ARCHITECTURE Susan Hall Landscape Architect, Inc. = Susan Hall, ASLA</p>	<p>PLANNING Thomas Vill, PE; Steve Burwinkel, PE</p> <p>MODELING & GIS Stephen Burwinkel, PE; David Myers, PE</p> <p>CIP & BUDGET PREPARATION / VALUE ENGINEERING Thomas Vill, PE; Steve Burwinkel, PE</p> <p>MODELING & GIS Stephen Burwinkel, PE; David Myers, PE</p> <p>REGULATORY & PERMITTING Kiran Kulkarni, PE; David Scott, PE; Fariborz Zanganeh, PE</p> <p>SURVEYING / MAPPING ISS Surveying Team = Kurt Stafflinger, PSM; Chris Siravo, Zachariah Clark</p> <p>BIDDING SERVICES Robert Van Vonderen, PE</p> <p>CONSTRUCTION MANAGEMENT & ADMINISTRATION / CERTIFICATION David White; David Scott, PE</p> <p>PUBLIC INVOLVEMENT & INTERGOVERNMENTAL COORDINATION Brian Stahl, PE</p> <p>GRANT & LOAN FUNDING ASSISTANCE Brian Stahl, PE; David Green</p>	<p>ASSET MANAGEMENT / DATA MANAGEMENT Raul Alfaro, PE; James Decker</p> <p>FACILITY ACCESS SYSTEM / SECURITY Stephen Burwinkel, PE; David Myers, PE</p> <p>OPERATIONS & MAINTENANCE Jonathan Mantay</p> <p>ENVIRONMENTAL RESEARCH & SUPPORT Atlantic Environmental of Florida, LLC = Jon Sheppard; David Purkerson</p> <p>DISASTER RESPONSE / FEMA ASSISTANCE Brian, Chris S, Mario E. Loaiza, PE</p> <p>MAINTENANCE OF TRAFFIC PLANNING SUPPORT / FDOT LIASION Thomas Vill, PE, Mark Mueller, CET</p> <p>START-UP ASSISTANCE Clayton McCormack, PE Jonathan Mantay</p>

VALUE-ADDED SERVICES AVAILABLE TO THE COUNTY AS DESIRED	
<p>SME ADVISORY BOARD Mario E. Loaiza, PE - Utility Management Sirpa Hall, PE, ENV SP - Project Management</p>	<p>CLIMATE CHANGE RESILIENCY Jason Bird, CFM</p> <p>HYDROGEOLOGY Angela Giuliano, PG</p>



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME THOMAS M. VILL, PE		13. ROLE IN THIS CONTRACT Project Manager and Senior Water / Wastewater Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 32	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - <i>Melbourne, Florida</i>					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering, Georgia Institute of Technology				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #71186	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water, Sewer, & Reclaimed Water Continuing Utility Engineering <i>St. Lucie West Services District (SLWSD)</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. ISS has completed more than 12 water / wastewater system improvements projects under this continuing contract including: ROWTF Capacity Expansion and Concentrate Water Main Piping to Blending with Reclaimed Irrigation, WWTF Expansion and Improvements, Water System Main Transmission Bypass Piping, Water Treatment Plant High-Service Pump Piping Connection, Lift Station No. 1 Design and Permitting, and Main Irrigation Reclaimed Water Pump Station.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Water / Wastewater Engineering Services <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included a biosolids evaluation and improvements design as well as improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Woodville Sewer System Improvements <i>Leon County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2025 (Estimated)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer assisting on the permitting, roadway design, construction bid document & observation, right-of-way acquisition, and utility building design services on this project to provide the Woodville Rural Community with central gravity sanitary sewer, including the transmission system to the City's existing gravity sewer system south of Capital Circle Southeast.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Dade City Water Supply and Wastewater Treatment Facility Rehabilitation <i>City of Dade City, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and engineer for the evaluation and design of Orange Valley water supply well improvements, and multiple upgrade projects to the City's wastewater treatment facility. Improvements included modification and rehabilitation of the existing grit unit and rehabilitation of the existing screen. Facility and process improvements have been constructed in a series of projects.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Streetscape and Utility Improvements, Continuing Services Contract <i>City of Cocoa, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for numerous streetscape / redevelopment projects for the City of Cocoa Community Redevelopment Agency (CRA) under this continuing contract. To-date, ISS has supported 13 individual projects involving lighting, landscaping, streetscape, pavers, civil design, and roadway and stormwater improvements for commercial corridors. ISS completed all public involvement, engineering design, permitting, and services during construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		
f.	(1) TITLE AND LOCATION (City and State) Utilities Department - Major Wastewater Continuing Contract <i>City of Panama City Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer up porting multiple wastewater utility projects under this continuing contract, including major wastewater treatment and lift station projects. Currently supporting the design of the City's underground utilities facility at a new 12 MGD advanced water treatment facility (current phase 1 is for the initial 4 MGD capacity), as well as the replacement / rehabilitation of Lift Station #4.			<input checked="" type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME BRIAN M. STAHL, PE		13. ROLE IN THIS CONTRACT Principal-in-Charge and Quality Control / Quality Assurance		14. YEARS EXPERIENCE	
				a. TOTAL 32	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering, Florida Institute of Technology BS, Biological Oceanography, Florida Institute of Technology AS, Mechanical Engineering, St. Louis Community College				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #48293	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Consulting Engineers Council Senior Executive Institute-Class 3, Leadership Florida Class 26, State of Florida Chamber of Commerce-Board of Governors, Florida Water Environment Assoc. (FWEA) Statewide Biosolids Committee Chairman (10 yrs), American Water Works Association (AWWA), Water Environment Federation (WEF)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water, Sewer, & Reclaimed Water Continuing Utility Engineering St. Lucie West Services District (SLWSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal. ISS has completed more than 12 water / wastewater system improvements projects under this continuing contract including: ROWTF Capacity Expansion and Concentrate Water Main Piping to Blending with Reclaimed Irrigation, WWTF Expansion and Improvements, Water System Main Transmission Bypass Piping, Water Treatment Plant High-Service Pump Piping Connection, Lift Station No. 1 Design and Permitting, and Main Irrigation Reclaimed Water Pump Station.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Martin County Septic to Sewer Funding Advocacy Martin County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017 - Ongoing	CONSTRUCTION (If applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal working with client to pursue several funding sources for a large septic to sewer project spanning 10 years for the Martin County Utilities Department. This project would see a total of 10,979 sewer collection connections and 6,345 water service connections impacting more than 26,300 individuals and removing significant amount nutrients from local groundwater. This project includes more than \$150 Million in grants from FDEP, South Florida WMD, St. John's River WMD, IRLNEP, and low interest loans from the FDEP Clean Water and Drinking Water programs.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Woodville Sewer System Improvements Leon County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2025 (Estimated)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal for ISS providing surveying, utility engineering, geotechnical, environmental support, permitting, roadway design, construction bid document & observation, right-of-way acquisition, and utility building design services on this project to provide the Woodville Rural Community with central gravity sanitary sewer, including the transmission system to the City's existing gravity sewer system south of Capital Circle Southeast. Phase 0 and Master Pump Station complete. Additional Phases underway.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Lemon Avenue Streetscape Project City of Sarasota, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-in-Charge and Senior Engineer EOR for the utility and drainage design and permitting for the Lemon Avenue Streetscape project. The design-build project includes raising the roadway segment to create a downtown plaza environment. The streetscape design allows for a pedestrian friendly environment that allows for a roadway segment that can be utilized as an event space and farmers market when closed. The project includes drainage and pedestrian enhancements, and new landscape and lighting facilities. The project is in a high-profile downtown location intersecting Main St and included emphasized public involvement.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Water / Wastewater Engineering Services City of Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included a biosolids evaluation and improvements design as well as improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.			<input checked="" type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME MARIO E. LOAIZA, PE, F.ASCE		13. ROLE IN THIS CONTRACT SME Advisory Board Lead		14. YEARS EXPERIENCE	
				a. TOTAL 24	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Jacobs – Palm Beach Gardens, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering, University of Alabama				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #59396	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) FEMA NIMS Certified, 100 200, 300 700 800, Fellow of the American Society of Civil Engineers, Government Engineer of the Year 2019					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Principle-in-charge Asset Management Fort Lauderdale, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019-present	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Principle-in-charge, oversees client satisfaction and ensuring that this City-wide Asset Management program is delivered on time and on budget. As schedules and budgets change, available to the client to access resources from both our local Florida operations and our global Solutions & Technology personnel. From project visioning, to delivery, available to the client and can address challenges as they emerge. At Jacobs, our Principle-in-charge is leveraged to communicate with staff and our resources to address any gaps and to lead the teams to successful project conclusion.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) South Martin Regional Utility Town of Jupiter Island, Hobe Sound, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2013-2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Utility Director. Director for 32-person Utility staff. Managed two Water Treatment Plant Facilities, capital planning, resource management and overseeing all aspects of Utility business managing all five divisions of SMRU. Program Manager for entire system including 17 raw water wells, finished water distribution system serving a diverse and seasonal customer base, sewer collection system, 110 lift stations and reclaimed water system. Plan, design, coordinate and manage water and wastewater utility projects and capital improvement projects.				<input type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Emergency Response/Hurricane Preparedness Jupiter Island, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2013-2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE First-In-Teams (FIT) Team Member. Integral part of the Island's FIT to respond to emergency and hurricane events. Directed pre-storm preparations, stayed on-site during Hurricanes Matthew and Irma and responded to system-wide challenges post-storm. Responsible for maintaining water and wastewater service to residents of Hobe Sound and Jupiter Island throughout the natural disaster.				<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Utility District of Riviera Beach Riviera Beach, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2008-2013	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assistant Executive Director. Oversaw 54-person Utility District staff. Responsible for managing personnel, all technical plan review, construction inspection and program management of all water and sewer projects within the Utility District limits. Assisted in preparation of capital improvement plan and budget and reported to Executive Director of Utilities. Engineering Manager for 14.5MGD WTP, 27 deep raw water wells and pipe system, 65-mile finished water distribution system serving a 40,000-person customer base, 4 - 1M Gallon re-pump stations, 75-mile sewer collection system, and 52 lift stations. Plan, design, coordinate and manage water and wastewater utility projects and capital improvement projects.				<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) East Central Regional Water Reclamation Facility Board Chair West Palm Beach, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2009-2013	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Voting Board Member of ECR from 2009 to 2013. Duties included approval of 20-year Capital Improvement Plan, serving on selection committee for \$100M Biosolids improvement project, approving budgets. Served as Chair of the Board and was instrumental on obtaining buy-in from the five (5) member agencies to delivery successful projects and capacity expansion of the 70-MGD facility. Brokered an inter-local agreement with Solid Waste Authority of PB County to partner in the pelletizer facility co-located at their facility. This partnership was mutually beneficial and the lowest cost option both the ECR and the SWA.				<input type="checkbox"/> Check if project performed with current firm	

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME KIRAN V. KULKARNI, PE		13. ROLE IN THIS CONTRACT Senior Water / Wastewater Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 40	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (<i>City and State</i>) Infrastructure Solution Services - Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering, Tennessee Technological University BS, Civil Engineering, University of Bombay, India				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #36114	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Water Environment Association (FWEA)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Water, Sewer, & Reclaimed Water Continuing Utility Engineering <i>St. Lucie West Services District (SLWSD)</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Wastewater Engineer. ISS has completed more than 12 water / wastewater system improvements projects under this continuing contract including: ROWTF Capacity Expansion and Concentrate Water Main Piping to Blending with Reclaimed Irrigation, WWTF Expansion and Improvements, Water System Main Transmission Bypass Piping, Water Treatment Plant High-Service Pump Piping Connection, Lift Station No. 1 Design and Permitting, and Main Irrigation Reclaimed Water Pump Station.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (<i>City and State</i>) Indian River Isles Septic to Sewer Conversion: North, Central, & South Phases <i>Brevard County Utility Services District</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer providing all of the engineering surveying, aerial drone survey work, the subsurface locates, completion of all of the engineering design including the hydraulic modeling, all plans and specs, and permitting for this project to serve the 400 residents (160 sewer connections) in three areas of the Indian River Isles Community. The project design includes construction of 10,000 LF of gravity sewer collection system, three lift stations, the residential sewer connections and abandonment of the septic tanks.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Woodville Sewer System Improvements <i>Leon County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer for the project providing surveying, utility engineering, geotechnical, environmental support, permitting, roadway design, construction bid document & observation, right-of-way acquisition, and utility building design services on this project to provide the Woodville Rural Community with central gravity sanitary sewer, including the transmission system to the City's existing gravity sewer system south of Capital Circle Southeast.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Major Master Pump Station & Lift Station Improvements <i>Brevard County Utility Services District (Florida)</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer for the completion of all the engineering design including the hydraulic modeling, GIS work on deliverables, all plans and specs, permitting, bidding phase services, construction administration services, and services during construction for two master pump stations. The project included new construction of master pump stations T-16 and T-25 plus improvements to the following 10 lift stations: C-4, C-12, C-16, N-03, N-06, T-14, T-26, T-38, W-02, and W-05.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Water / Wastewater Engineering Services <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included a biosolids evaluation and improvements design as well as improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.			<input checked="" type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME CLAYTON E. MCCORMACK, PE		13. ROLE IN THIS CONTRACT Senior Wastewater Treatment Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 26	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering, Michigan State University BA, Chemistry, Illinois Wesleyan University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #65473	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Water Works Association (AWWA), Water Environment Federation (WEF)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) WRF Filter No.2 Replacement St. Lucie West Services District (SLWSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) On-Hold
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager / Environmental Engineer. Responsible for the conceptual and final design of the replacement of a traveling bridge sand filter with new cloth media disc filter system. Project includes structural modifications to the existing structure, piping, disc filter equipment, and electrical/controls system.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Water / Wastewater Engineering Services City of Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included a biosolids evaluation and improvements design as well as improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.				<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) North Regional Water Treatment Plant Improvements Palm Bay Utilities			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2017
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer & Project Lead on the replacement of 175 LF of 12"/14" steel filter backwash piping, replacement of filter media & filter underdrains, and replacement of lime softening solids contact clarifier internal mechanism at 10 MGD lime softening water treatment plant.				<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Dade City Water Supply and Wastewater Treatment Facility Rehabilitation, City of Dade City, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer for the evaluation and design of Orange Valley water supply well improvements, and multiple upgrade projects to the City's wastewater treatment facility. Improvements included modification and rehabilitation of the existing grit unit and rehabilitation of the existing screen. Facility and process improvements have been constructed in a series of projects.				<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Major Master Pump Station & Lift Station Improvements Brevard County Utility Services District (Florida)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer for the completion of all the engineering design including the hydraulic modeling, GIS work on deliverables, all plans and specs, permitting, bidding phase services, construction administration services, and services during construction for two master pump stations. The project included new construction of master pump stations T-16 and T-25 plus improvements to the following 10 lift stations: C-4, C-12, C-16, N-03, N-06, T-14, T-26, T-38, W-02, and W-05.				<input checked="" type="checkbox"/> Check if project performed with current firm	
f.	(1) TITLE AND LOCATION (City and State) Utilities Department - Major Wastewater Continuing Contract City of Panama City Beach, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Wastewater Engineer up porting multiple wastewater utility projects under this continuing contract, including major wastewater treatment and lift station projects. Currently supporting the design of the City's underground utilities facility at a new 12 MGD advanced water treatment facility (current phase 1 is for the initial 4 MGD capacity), as well as the replacement / rehabilitation of Lift Station #4.				<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME STEPHEN P. BURWINKEL, PE		13. ROLE IN THIS CONTRACT Senior Water / Wastewater Engineer – Hydraulics / Modeling / GIS		14. YEARS EXPERIENCE	
				a. TOTAL 21	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering, University of Central Florida MS, Civil Engineering, University of Central Florida				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #58567 (Civil)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Post Baccalaureate Certificate in GIS – Penn State University (2015)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water, Sewer, & Reclaimed Water Continuing Utility Engineering St. Lucie West Services District (SLWSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015-Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Utility Design Engineer. ISS has completed more than 12 water / wastewater system improvements projects under this continuing contract including: ROWTF Capacity Expansion and Concentrate Water Main Piping to Blending with Reclaimed Irrigation, WWTF Expansion and Improvements, Water System Main Transmission Bypass Piping, Water Treatment Plant High-Service Pump Piping Connection, Lift Station No. 1 Design and Permitting, and Main Irrigation Reclaimed Water Pump Station.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Cocoa Civil and Stormwater Engineering Continuing Contracts City of Cocoa, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014-current	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Project Engineer responsible for the design, permitting, modeling, public involvement, and services during construction of the City of Cocoa Stone Street, Whitley Bay, Delannoy, and Maryland roadway and streetscape projects and for the Emma Jewel Regional Stormwater Pond.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Bethel-St. Mark Historic District Infrastructure Initiative Analysis City of Punta Gorda, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. GIS Engineer completed GIS evaluation work for an infrastructure analysis to review the conditions of the City's existing roadway drainage, sidewalks, and lighting systems in the Bethel-St. Mark Historic Overlay District. Reviewed the existing sidewalk network for integrity and compliance with the Americans with Disabilities Act (ADA) accessibility requirements, the pedestrian connectivity of the system gaps, lighting system for its general effectiveness, and the existing drainage network. ISS provided a list of prioritized solutions for the City to implement moving forward as budget funding allows.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Naval Facilities Eng. Command (NAVFAC) Fire Protection Upgrades Jacksonville, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Project Engineer for design and QA/QC of NAS Jacksonville design/build fire protection improvements. Civil portion of project included model and design of dedicated fire water storage, pumping and distribution main and general civil engineering design associated with water main installation.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Water / Wastewater Engineering Services City of Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Engineer. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included a biosolids evaluation and improvements design as well as improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.			<input checked="" type="checkbox"/> Check if project performed with current firm		
f.	(1) TITLE AND LOCATION (City and State) Indian River Isles Septic to Sewer Conversion: North, Central, & South Phases Brevard County Utility Services District (BCUSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior GIS and Design Engineer. Using the aerial drone survey work, the subsurface locates, for the completion of the engineering design including the hydraulic modeling, all plans and specs, and permitting for this project to serve the 400 residents (160 sewer connections) in three areas of the Indian River Isles Community. The project design includes construction of 10,000 LF of gravity sewer collection system, three lift stations, the residential sewer connections and abandonment of the septic tanks.			<input checked="" type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME ROBERT VAN VONDEREN, PE		13. ROLE IN THIS CONTRACT Senior Water / Wastewater Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 39	b. WITH CURRENT FIRM 1.5
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - <i>Melbourne, Florida</i>					
16. EDUCATION (DEGREE AND SPECIALIZATION) MPA, Public Administration, Bowie State University BSCE, Civil Engineering, University of Florida				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #40273	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) AF Space Command Federal Engineer of the Year; USAF Design Excellence Award; Society of American Military Engineers, Academy of Fellows, Member; U.S. Air Force Space and Missile Museum Foundation, Board of Directors					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Coastal to Columbia Force Main Improvements <i>City of West Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Water / Wastewater Engineer for the evaluation, design, permitting and services during construction for a project to install 1,620 linear feet of new 12" sanitary force main between Coastal Lane and Columbia Lane in West Melbourne, Florida. Work involved installation of 850 LF of new 12" C900 pipe through conventional trenching and the installation of 780 LF of 14" HDPE pipe directionally drilled under I-95 along with associated valves, air release valves and required fittings and taps. Work also included significant coordination with the St Johns River Water Management District to deconflict the concurrent installation of a 24" storm water force main in the same utility corridor.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Church Avenue Force Main Improvements <i>City of Dade City, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Water / Wastewater Engineer overseeing all civil design, permitting and services during construction for the City of Dade City's Church Avenue force main improvement project. Work involved modeling of the existing sanitary system to identify system bottlenecks and redirect the wastewater flow in the existing wastewater collection system and increase capacity. The project will install 1300 LF of directionally drilled 6-inch HDPE pipe with associated valves, air release valve and fittings to bypass choke points and improve system operations.				<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Meadowlane Avenue Force Main Improvements <i>City of West Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Water / Wastewater Engineer for the evaluation, design, permitting and services during construction for a project to replace 2050 LF of existing, antiquated 10" sanitary force main with a new 12" force main on Meadowlane Avenue in West Melbourne, Florida. Work involved installation of 1500 LF of new 12" C900 pipe through conventional trenching and the installation of 550 LF of directionally drilled 14" HDPE pipe along with associated valves, air release valves and required fittings and taps. Work also includes replacement of corroded 12-inch and 16-inch fittings at the Veterans Memorial Complex lift station, maintenance of existing 24" check valves and repair and restriping of pavement on Meadowlane Avenue through the application of a micropaving coating system and thermoplastic traffic markings.				<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Vice President - Operations – Intergrated Construction Management, Inc. (2015-2020)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Responsible for overseeing all federal design and construction management activities for ICMI throughout the continental United States. Ensured each project was constructed in accordance with project drawings and specifications and all materials and equipment were used efficiently. Enforced project safety and quality control procedures and served as the government interface for all issues. Developed and maintained project budgets, job cost tracking, weekly progress reports, schedules, cost estimates.				<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Deputy, Range/Base Civil Engineer – Patrick Air Force Base (AFB), Florida (2012-2015)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012-2015	CONSTRUCTION (If applicable) 2015-2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior civilian responsible for matters relating to engineering policy, base and range operations support, design and construction management, environmental issues, emergency management, funding resources, and construction and service contracts. Oversaw a 385-person squadron and activities involving the construction, maintenance, and protection of more than \$10 billion in real property assets -- over 6.8 million square feet of facilities spread out over 21,000 acres including 3 airfields and 5 space launch complexes.				<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME RAFAEL VAZQUEZ-BURNEY, PE		13. ROLE IN THIS CONTRACT Treated Effluent / Solid Waste Leachate Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 15	b. WITH CURRENT FIRM 15
15. FIRM NAME AND LOCATION (City and State) Jacobs – Tampa, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MCE, Civil Engineering, North Carolina State University BS, Environmental Engineering, North Carolina State University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL 70768	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) International Water Association, 2014. <i>Floating Wetland Islands as a Method of Nitrogen Mass Reduction: Results of 1-Year Test</i> Science of the Total Environment, 2017. <i>Nitrification and Total Nitrogen Removal in a Super-Oxygenated Wetland</i>					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Wetland Recharge Park City of Ocala, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Subject Matter Expert. The goal of which was is to offset consumptive use impacts by providing beneficial reuse of the City's reclaimed water. This ongoing project includes detailed design and permitting to construct a 35-acre groundwater recharge wetland park. This project involved the construction of a treatment wetland to receive stormwater and reclaimed water for water quality polishing and infiltration to support regulatory drivers within the Silver Springs System which is subject to MFL and TMDL limitations. The system is designed to recharge 5 mgd and reduce nitrate to background levels.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Innovative Treatment Wetland System for Industrial Landfill Leachate Narrows, Virginia			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design Lead and Lead Subject Matter Expert. Developed a treatment train concept to use innovative treatment wetlands to remove iron and ammonia from the leachate of an industrial landfill to maintain compliance with an NPDES permit. System included filter marshes, subsurface aerobic wetlands operated by siphons, and anaerobic polishing wetlands for metals sequestration.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) 4G Ranch Wetlands Pasco County Utilities Services Branch, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Subject Matter Expert. This award-winning project included the development of water reuse options for Pasco County while providing multiple benefits for the region's water resources including groundwater recharge, ecosystem enhancement, and wetland habitat creation. Rafael developed the project concept, performed cost benefit analyses, and led hydrogeological testing for an infiltration wetland which involved aquifer performance testing used to develop a calibrated groundwater model. Rafael led detailed design, secured permits without the need for RFIs while pushing the limits of the Florida Reuse Rule, and managed the construction a 176-acre wetland system divided into 15 wetland cells that receive 5 mgd of reclaimed water.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Crews Lake Natural Systems Restoration Project Pasco County Utilities Services Branch, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Pasco County plans on using surplus reclaimed water to augment lake levels, recover and enhance aquatic ecosystems, and provide water reuse capacity. Rafael led a team that prepared a study that included planning-level efforts to use natural wetlands for beneficial use of reclaimed water through restoration of lake levels subject to MFL regulations. Rafael supported the pursuit for funding which led the project to be ranked high and approved for funding for design, permitting, and construction. Rafael led the design which involved grading, a pipeline, and hydraulic control structures; and permitting including a new NNC compliant NPDES discharge.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Waukegan Harbor Infiltration Treatment Wetland. Waukegan, IL USEPA			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Subject Matter Expert. Conceptualized, designed, and provided consultation during construction of an infiltration wetland system to receive remediation groundwater for treatment and management. Work involved assessing infiltration capacity and treatment capacity to reduce ammonia to background levels. The design included innovative approaches to introduce oxygen to the water for nitrification via a passive cascade aerator.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Gerardus J. Schers, PMP		13. ROLE IN THIS CONTRACT Senior Water Treatment Technologist		14. YEARS EXPERIENCE	
				a. TOTAL 30	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Jacobs – Fort Lauderdale, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering, Delft University of Technology BS, Civil Engineering, Delft University of Technology				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Management Professional (PMI, No. 428825)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) RO Membrane and Feed Pump Replacement, Degasifier and Scrubber Replacement, Filter Improvements and Master Plan <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Water Treatment Technologist. Developed RO membrane specifications, bid support and professional services during construction. The work included a pilot plant study to verify the optimal RO membrane element, a study to address the 4-log virus treatment requirement for groundwater systems, modifications to the RO feed pumps, including new motors and variable speed drives and replacement of the obsolete degasifiers and chemical scrubbers. The work continues with finalizing the design of the media filter improvements. As part of the work, Jacobs also developed a WTP master plan for both the surface and groundwater treatment facilities looking at alternatives to meet future demands and regulatory requirements. The SWTP raw water contains high levels of organic material and color and based on recent sampling revealed the presence of per- and poly-fluoro alkyl substances (PFAS) at the point of entry (POE). The future treatment solutions include technologies, including RO and GAC, removing these contaminants.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) WTP Improvements <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Technical Lead. Completed design of treatment modifications developed during bench/pilot plant investigations, including ion exchange, submerged and pressurized MF/UF, reverse osmosis and ultraviolet (UV) light disinfection. The modified treatment process will integrate UV into the conventional, but refurbished WTP. The modified WTP will have a rated capacity of 50 MGD. Ancillary facilities include a 7500-kW new electrical/generator building, a new washwater recovery system, new chemical feed systems, new hardware and software SCADA system, improvements to Profibus communication system in the filter area and several other urgent projects to rectify existing deficiencies. Most of the facilities have been completed and are in operation.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Phase 1 and Phase 2 WTP Expansion <i>City of North Miami Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Process Lead. Designed and constructed the NF and RO membrane expansion with 6 mgd (Phase 1) and designed the lime softening expansion / rehabilitation with 5 mgd (Phase 2). The membrane expansion included new sand separators, addition of membrane elements and pressure vessels to increase skid capacity, addition of one new 3.5 mgd NF skid, modifications to membrane skids to accommodate higher flows and chemical improvements to increase system recovery. The lime softening expansion included a new lime softening clarifier, chemicals for increased color removal, recarbonation system, media filters, transfer/high services pumps and an elevated storage tank.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) RO WTP Expansion <i>Bonita Springs Utility</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Process Lead. Providing treatment process services to design a 2 mgd expansion of an existing RO WTP treating brackish groundwater. The expansion involves the addition of sand strainers, modifications to existing RO skids to accommodate additional membrane elements, modification to existing chemical feed systems and the addition of a new degasifier and transfer pump. The construction was completed in 2018. Currently, the design of this facility is ongoing for a further expansion with additional RO skids to treat Floridan Aquifer brackish ground water and with a NF treatment system to treat hard and colorful Surficial Aquifer ground water that will replace the existing lime softening facility.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME David A. Myers, PE		13. ROLE IN THIS CONTRACT Senior Utility Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 14	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering, Florida Institute of Technology BS, Civil Engineering, University of Florida			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #66438		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA 30-Hour Construction Safety Certification; OSHA 40-Hour HAZWOPER Certification; State of Florida Qualified Stormwater Management Inspector					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water Reclamation Facility #2 & Underground Utilities Facility City of Panama City Beach Utilities			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Engineer responsible for the conceptual design of site improvements, site utilities, and stormwater design for the initial overall 40-acre site for a future 12 MGD WWTF and utilities campus.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Continuing Services Contract - Civil Engineering City of Melbourne			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Role. Project Description. Senior Utility Engineer responsible for the engineering, design, permitting and construction administration of several public works-related projects under this contract including the West Melbourne Community Park and the Wood Haven Manor Area Drainage Study and Design Improvements projects.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Continuing Services Contract - Utility Services Brevard County Utilities			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Engineer responsible for a variety of civil and environmental engineering services on the Brevard County water and sewer systems throughout the County. Recently replaced the filtration valve and actuator system at the North County WWTP. Responsible for QA/QC and overall underground utilities review for the West Cocoa Collection System Improvements project and the Indian River Isles Septic-to-Sewer project.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Woodville Septic to Sewer System Leon County Utilities			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2025 (Estimated)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Engineer & hydraulic modeler for sewer modeling, design, and cost estimating of a wastewater collection system providing the Woodville Community with central gravity sanitary sewer. Work included development of a SewerGEMS hydraulic model used in evaluation / design of the proposed wastewater collection system			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Orange Valley Water System Improvements City of Dade City			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Utility Engineer assisted in the use of previously developed WaterCAD hydraulic model for design of improvements to the City's water distribution system. Also assisted in the preparation of bidding documents for the new water supply well and distribution of potable drinking water system.			<input checked="" type="checkbox"/> Check if project performed with current firm		
f.	(1) TITLE AND LOCATION (City and State) Underground Storage Tank Closure Tennessee Department of Transportation			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental field manager responsible for oversight and soil sampling associated with the excavation and removal of four 10,000-gallon underground storage tanks (USTs) and associated fuel lines and dispenser islands for the Tennessee Department of Transportation (TDOT) right-of-way acquisition program. Challenges included working in restricted space and coordinating logistics for the sequential removal of USTs.			<input type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME MARLENA TRIER, M.S., E.I.		13. ROLE IN THIS CONTRACT Water Transmission & Distribution Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 5	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Jacobs – Palm Beach Gardens, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, Water Resources Engineering Specialty, Milwaukee School of Engineering B.S., Civil Engineering, Milwaukee School of Engineering				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Passed Civil Water Resources PE Exam, processing application with FBPE	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Vice-President at ASCE Palm Beach Branch, ASCE Young Engineer of Year Award 2020, Engineers Without Borders Florida Professionals Chapter Member, Awarded at the 2021 Palm Beach County National Engineers Week Honors & Award Event					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Sodium Hypochlorite Storage & Feed Systems at Five Remove Re-Pumps Stations <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conversion from chlorine gas disinfection to sodium hypochlorite disinfection. Project required knowledge of automatic chemical dosing, water chemistry, SCADA, and control systems logic; data analysis for chemical metering pump sizing; extensive equipment and control systems testing, and operator training; inspection of concrete reinforcement, pressure testing, electrical and plumbing tie-ins, water chemistry analyzers, pumps, level sensors, and control systems; contractor pay applications, RFIs, change orders, substantial and final completion.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) 48-Inch PCCP Force Main Condition Assessment and Rehabilitation <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2017
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Rehabilitation of City's 48-inch PCCP force main using fiber-reinforced cured-in-place pipe. Project consisted of temporary bypass piping and pumping, several directional drills, 48-inch diameter line stops, pipe cleaning and lining, pavement restoration, MOT preparation, community outreach, Construction and Record Drawing preparation, hurricane preparation, and coordination with Contractors, City, FDOT, and County.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Solar Energy Projects – Site Civil Design <i>Florida Power & Light</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017 (Ongoing)	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the civil stormwater design of many solar farms located across Florida. Duties include stormwater modeling, drainage design, environmental resource and USACE permitting.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Stormwater Master Plan <i>Monroe County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020-2021	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead engineer for the development of existing and proposed condition stormwater master plans for the Marathon International Airport. Scope included stormwater modeling, proposed drainage system design, reporting, preliminary cost estimating and permitting of the selected drainage alternative. Design components include drainage wells, exfiltration trench, retention ponds, and considerations for sea level rise. Anticipated construction cost \$2 M.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Master Plan Update 2019 <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Update and calibration of the City's Water System Master Plan. Scope included updating the model, calibration based on installation of pressure loggers at hydrants and collection of field data through flow tests, capacity analysis of the current system, and extension of the current Master Plan. Responsible for field data collection and analysis, coordination with City staff, and report writing.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME RUDY FERNANDEZ, PE		13. ROLE IN THIS CONTRACT Wastewater Collection & Forcemain Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 44	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) Jacobs – Palm Beach Gardens, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Engineering, Princeton University			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #40328		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) WEF Past Chair of the Technical Practice Committee and the Collection Systems Committee. Past Chair of the Florida Water Environment Association Collection Systems Committee. Awarded Golden Manhole Award by WEF and by FWEA.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) 42-inch/48-inch PCCP Force Main Condition Assessment and Rehabilitation <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed professional engineering services relative to the design of cured-in-place lining of 13,000 LF of the existing 48-in PCCP force main. The force main conveys all of the flow from the City and the Town of Palm Beach-20 MGD. Service could not be interrupted; therefor, over several months, flow was bypassed so the existing FM could be lined. The liner was designed to restore the structural integrity of the force main using cured-in-place trenchless technology (CIPP) rehabilitation/renewal.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Master Services Agreement <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the city under a separate master services agreement: plans and specifications for emergency repairs related to the PCCP portion of the water distribution system; backwash recovery study at the Water Treatment plant; plans, specifications, and contractor procurement for the replacement of an existing water meter and vault at the water treatment plant; design and specifications for yard piping at the Water Treatment Plant and related the backwash recovery study; and a thorough update and calibration of the water distribution model.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) City-Wide Force Main Condition Assessment Plan <i>City of Fort Lauderdale, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Subject Matter Expert, assisted in the development of a plan for conducting an assessment of the current condition of the City force mains transmission system. The plan included sufficient detail to schedule improvements of aging or deteriorating pipes, connections, valves, and appurtenances. The plan includes descriptions and application of condition assessment methods such as analysis of coupons from previous pipe failures, analysis of surrounding soil characteristics, oceanic impacts on force mains, noninvasive defect detection, and other methods. The Plan also presented the methodology to perform a detailed risk analysis.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) City of St. Petersburg, FL Project Name Integrated Water Resources Master Plan <i>City of St. Petersburg, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sewer System Asset Management Plan Manager. Developed an integrated water resources plan for the City to document the implementation progress, as required by the Consent Order and subsequent amendment entered among the City, FDEP, and the USEPA. One of the required components of the Plan was to develop the Sewer System Asset Management Plan (SSAMP). Rudy led this effort, which included interviews and workshops with staff, and review/recommendations of a sample of the City's standard operating procedures (SOPs). The SSAMP includes goals and execution recommendations related to level of service; safety; fats, oil, and grease control; infiltration and inflow evaluation and reduction in the public and private sectors; operation and maintenance of gravity sewers and force mains, including critical force mains as identified in the consent order; GIS linkage to the management information system; and emergency procedures.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME GARY A. YOCUM, PE		13. ROLE IN THIS CONTRACT Senior Electrical Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 35	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services - Melbourne, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Electrical Engineering, University of Central Florida BS, Engineering Science in Electrical Engineering, University of Louisville				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL PE #61594	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ISA - International Society of Automation					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water, Sewer, & Reclaimed Water Continuing Utility Engineering St. Lucie West Services District (SLWSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015-Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Electrical Engineer for design on several plant projects, WTP Main Transmission Bypass Piping, Water Treatment Plant (WTP) High-Service Pump Piping Connection, and Reclaimed Water Main Pump Station Preliminary Design.			<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) West Cocoa Sewer System Improvements: Phases 1, 2, & 3 Brevard County Utility Services District (BCUSD)			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Electrical Engineer provided engineering services for the rehabilitation and new construction of the Dade City sewer system involving the evaluation and rehabilitation of 210,000 LF of gravity sewer and more than 800 manholes. Work included installation of over 3,000 LF of force main ranging from 4" to 16" (including FDOT approval of directional drilling), installation of over 12,000 LF of gravity sewer, replacement of eight lift stations, rehabilitation of 17 lift stations, new construction of a new master pump station.			<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Septic to Sewer: Sylvan Estates Sewer Project City of West Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Electrical Engineer providing the electrical engineering design and services during construction for this project to convert the homes within Sylvan Estates from septic systems to a new central sewer collection system. The project serves 74 residential connections including single-family homes, each with their own septic system.			<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) West Palm Beach East Central Regional WRF City of West Palm Beach, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Electrical Engineer completed electrical and Instrumentation improvements to include AWT Facility Improvements, PLC Upgrade, Septage Receiving Upgrade, EQ Basin Improvements, AB5 Gate Automation, Effluent Pump Station Improvements and SCADA upgrades.			<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Water / Wastewater Engineering Services City of Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Electrical Engineer. ISS is providing engineering services at two WRFs and a WTP for the City of Melbourne. Work has included improvements to convert both WRFs to AWT. ISS is also performing an evaluation and master planning including hydraulic modeling for the City's surface water treatment plant. All projects have involved some level of engineering services for water / wastewater distribution / collection and transmission.			<input checked="" type="checkbox"/> Check if project performed with current firm	
f.	(1) TITLE AND LOCATION (City and State) Reclaimed Water System and the Orange Valley Well Water Supply Project City of Dade City, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Electrical Engineer for preparation of bidding documents for the construction of SCADA for new City reclaimed water system and a supply well, disinfection, and pumping of potable drinking water. Use of previously developed WaterCAD hydraulic model for design of improvements to the City's water distribution system			<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME BERNIE JACOBSEN, PE, PMP		13. ROLE IN THIS CONTRACT SCADA Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 38	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION (City and State) Jacobs – Orlando, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Electrical Engineering, Florida Atlantic University AA, Engineering, Florida Atlantic University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #50020	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Management Professional: PMP Certification (No. 935537); Florida IT Division Chair for American Water Works Association (AWWA); Florida Institute of Consulting Engineers (FICE) Grand Award for Engineering Excellence, August 2000, Orlando Utilities Facility Automation and Information Management (FAIM) System					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) SCADA Master Plan City of Cocoa, Florida	(2) YEAR COMPLETED			
		PROFESSIONAL SERVICES 2011-Present	CONSTRUCTION (If applicable) 2011-Present		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm SCADA Program Manager. SCADA program is a multi-year, +\$10M series of upgrades. Projects included upgrades to all SCADA PLC hardware, HMI software, detail design of control system panels, telemetry system design, SCADA network design, cyber security, control room design and upgrade, develop PLC/ HMI/ Hardware standards, development of control narratives, automation programming, operational automated reporting, energy evaluation study, and includes design build construction of upgrades. Site locations included Groundwater treatment plant, Surface Water treatment plant, 46 remote well sites, remote pre-treatment, elevated tank, and three remote booster stations.				
b.	(1) TITLE AND LOCATION (City and State) SCADA Upgrade Plan, Design, Programming, and Implementation and Master Plan City of Melbourne, Florida	(2) YEAR COMPLETED			
		PROFESSIONAL SERVICES 2014-Present	CONSTRUCTION (If applicable) 2014-Present		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm SCADA Program Manager. The SCADA Master Plan, detail design services, and complete hardware and software upgrade of SWTP and RO WTP. Full turn-key SCADA programming automation and construction build services.				
c.	(1) TITLE AND LOCATION (City and State) SCADA Master Plan City of Cooper City, Florida	(2) YEAR COMPLETED			
		PROFESSIONAL SERVICES 2014-Present	CONSTRUCTION (If applicable) 2014-Present		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm SCADA Program Manager. SCADA program is a multi-year series of upgrades. Projects included upgrades to all SCADA PLC hardware, HMI software, detail design of control system panels, SCADA network design, cyber security, develop PLC/ HMI/ Hardware standards, development of control narratives, automation programming, and includes design build construction of upgrades. Plants included one RO WTP.				
d.	(1) TITLE AND LOCATION (City and State) SCADA Control System Automation Orlando Utility Commission	(2) YEAR COMPLETED			
		PROFESSIONAL SERVICES 1997-2009	CONSTRUCTION (If applicable) 1997-2009		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm SCADA Program Manager. SCADA program is a multi-year series of upgrades. Projects included upgrades to all SCADA PLC hardware, HMI software, SCADA network design, cyber security, develop PLC/ HMI/ Hardware standards, development of control narratives, automation programming, and includes design services during construction. Other projects included Cyber Security assessment, SCADA network design, regulatory report automated reporting, information management system, Plants included one Central Operations Center and eight new water treatment facilities. Provided control system automation of entire facility for 8 Water Treatment Plants (WTP) as project manager and / or project engineer. Automation included unattended operation from a remote location. Developed standards for process automation and programming.				
e.	(1) TITLE AND LOCATION (City and State) SCADA Program Manager City of Winter Park, Florida	(2) YEAR COMPLETED			
		PROFESSIONAL SERVICES 2002-2009	CONSTRUCTION (If applicable) 2002-2009		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SCADA Program Manager. SCADA program is a multi-year series of upgrades. Projects included upgrades to all SCADA PLC hardware, HMI software, design of control system panels, SCADA network design, cyber security, develop PLC/ HMI/ Hardware standards, development of control narratives, automation programming, and includes design build construction of upgrades. Plants included four WTPs.				

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME J. THOMAS WILLIAMS, PE, LEED® AP		13. ROLE IN THIS CONTRACT Senior Structural Engineer		14. YEARS EXPERIENCE	
				a. TOTAL +45	b. WITH CURRENT FIRM 1.5
15. FIRM NAME AND LOCATION (<i>City and State</i>) Infrastructure Solution Services – Melbourne & Panama City Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BCSE in Civil Engineering, Florida Technological University (UCF)				17. CURRENT PROFESSIONAL REGISTRATION (<i>STATE AND DISCIPLINE</i>) Professional Engineer: FL PE # 22282	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) USGBC LEED-NC Accredited Provider, American Society of Civil Engineers (ASCE), American Concrete Institute (ACI), American Institute of Steel Construction (AISC)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Utilities Department - Major Wastewater Continuing Contract <i>City of Panama City Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017-Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Structural / Civil Engineer supporting multiple wastewater utility projects under this continuing contract, including major wastewater and lift station projects. Currently supporting the design of a new 12 MGD advanced water treatment facility (current phase 1 is for the initial 4 MGD capacity), as well as the replacement / rehabilitation of Lift Station #4.			<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (<i>City and State</i>) Woodville Sewer System Improvements <i>Leon County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2025 (Estimated)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Engineer for ISS providing surveying, utility engineering, geotechnical, environmental support, permitting, roadway design, construction bid document & observation, right-of-way acquisition, and utility building design services on this project to provide the Woodville Rural Community with central gravity sanitary sewer, including the transmission system to the City's existing gravity sewer system south of Capital Circle Southeast. Phase 0 and Master Pump Station complete. Additional Phases underway.			<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Septic to Sewer: Sylvan Estates Sewer Project <i>City of West Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Structural Engineer providing engineering surveying, subsurface locates, completion of all the engineering design including all plans and specifications, permitting, field surveying, utility engineering, preliminary design cost estimate and submitted a SOIRL Project Plan application, and services during construction for this project to convert the homes within Sylvan Estates from septic systems to a new central sewer collection system. The project serves 74 residential connections.			<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Grant Street WRF Improvements <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Structural Engineer for the rehabilitation of the 5.5 MGD Grant Street WRF. Major structural elements of the project include the rehabilitation of the influent pump station, new biological nutrient removal oxidation ditch, and two new clarifiers.			<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Philippi Creek Areas A, C, & K Vacuum Sewer Projects <i>Sarasota County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Structural Engineer on these Sarasota County's vacuum sewer (septic system replacement) program for the Area A, C, & K projects. Responsibilities included EOR for Area K, and principal responsibilities, hydraulic analysis, overall program mapping, corridor analysis, design, and plans production.			<input type="checkbox"/> Check if project performed with current firm	
f.	(1) TITLE AND LOCATION (<i>City and State</i>) Water Reclamation Facility Phase VI Improvements <i>Destin Water Users, Inc. - Destin, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural Engineer of Record - The project included the construction of a 2.0 MGD treatment capacity expansion to the 6.0 MGD WWTP. The project included the demolition of the existing contact stabilization plant and clarifiers, a new influent fine screen, modifications to the existing flow equalization basin, a new aeration basin with an internal anoxic zone, two secondary clarifiers, chlorine contact chamber expansion, automatic backwash filters, miscellaneous pumping stations, aerobic digester, modifications to the existing reject storage pond, a 2.1 MG reclaimed water ground storage tank, miscellaneous flow meters, and motor control center.			<input type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME BHUSHAN GODBOLE, PE		13. ROLE IN THIS CONTRACT Structural Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 30	b. WITH CURRENT FIRM 24
15. FIRM NAME AND LOCATION (City and State) Jacobs – Jacksonville, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Structural Engineering, University of Cincinnati B.S., Civil Engineering, Indian Institute of Technology				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL # 54325	
Member ASCE					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) General Services Contract Collier County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2002-CURRENT	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Structural Engineer for a variety of consulting/engineering services for Collier County Transportation and Growth Management Department as part of multi-year General Services Contract. The scope entailed studies, structural reviews and evaluations of the various infrastructure related facilities. Scope included identifying any immediate repair and maintenance needs as well as future replacement costs to help facilitate maintenance, design, construction, and budget planning. Projects included bridge, culverts, wildlife crossings, water control structures, design of aerial utility pipe crossings, services during construction, planning assistance and inspections on transportation and utility infrastructure projects.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Structural Evaluation of Water Control Structures Collier County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012 and 2018	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Structural Engineer for inspection and condition assessment of Collier County owned and maintained secondary canal system adjustable (25 structures) and Fixed crest (33 structures) water level control structures. The scope entailed structural reviews and evaluations of the various reinforced concrete outfall and weir installations and appurtenances to document and identify any immediate repair and maintenance needs as well as future replacement costs to help facilitate maintenance, design, construction and budget planning. As a follow-on, worked on complete replacement design of an adjustable water control structure.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) SRF Lift Station Improvements St. Johns County Utility Department			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2013
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Served as Structural EOR for lift station improvement projects involving multiple lift stations within the county. Work included initial inspections and structural detailing for wet well lift slabs and concrete equipment pads, hanger details within the project scope.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Plantation WTP Aerator Support Structure Rehabilitation Structural Inspection and Assessment, Rehab and Repairs St. Johns County, Florida St. Johns County Utility Department			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Served as Structural EOR for Inspection of elevated aerator steel Support structure, analytical evaluation to verify structural capacity, repair recommendations and repainting of the structure to increase longevity. Also prepared structural plans for modifications of aerator screens to make it easy to remove for maintenance personnel.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Matanzas Bridge Aerial Pipe crossing ST Johns County Utility Dept			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2011
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Designed bridge mounted aerial pipe crossing on hangers as part of utility relocation project. Bridge Length was 575 ft and was a five 115' span prestressed concrete bridge. A 10" Water main and 6" Force main was designed on stainless steel hangers mounted to the bridge deck underside.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Fariborz Zanganeh, PE		13. ROLE IN THIS CONTRACT Senior Stormwater Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 33	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services <i>Melbourne, Florida</i>					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Water Resources, Florida Institute of Technology BS, Civil Engineering, Florida Institute of Technology			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #54758		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Zanganeh previously worked for the St. Johns River Water Management District (SJRWMD) as the supervising professional engineer in charge of permitting. During his 30 years in this role, he oversaw, approved, and/or reviewed more than 10,000 Environmental Resource Permits (ERPs).					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Emma Jewel Stormwater Basin for The Diamond Square Urban Infill and Redevelopment for the <i>City of Cocoa</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Zanganeh was the Regulating Authority Project Manager reviewing and assisting the City of Cocoa in obtaining a Conceptual Approval Permit for Urban Infill and Redevelopment in accordance with F.A.C. Project consisted of design, modeling and permitting of a proposed wet detention basin and stormwater collection system modifications to permit redevelopment of a portion of the Diamond Square Community Redevelopment Area. He reviewed and shared comments on modeling of the proposed improvements supporting the permit application, master plan, and design included hydrologic and hydraulic modeling using ICPR modeling software package and water quality calculations using the Excel-based BMPTRAINS tool..			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Stormwater Watershed 3A Master Plan - Flooding and Water Quality Improvement Project for the City of Titusville			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2008	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Regulating Authority Project Manager working with the City in development of a stormwater master plan for City's Basin 3A. Work included the development of a XPSWMM model to simulate storm levels and EPA STEPL for water quality. Model used to develop capital improvements to relieve flooding and develop best management practices (BMP) to reduce pollutant discharges to the Indian River Lagoon.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Lemon Avenue Streetscape Design <i>City of Sarasota, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Zanganeh has provided engineering support for roadway and drainage system design for the Lemon Avenue Streetscape project for the City of Sarasota. The design-build project includes raising the roadway segment to create a downtown plaza environment. The streetscape design allows for a pedestrian friendly environment that allows for a roadway segment that can be utilized as an event space and farmers market when closed. The project includes drainage and pedestrian enhancements, and new landscape and lighting facilities. The project is in a high-profile downtown location intersecting Main St and included emphasized public involvement.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Waterfront Master Planning and Design Services <i>City of Cocoa, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As Senior Stormwater Engineer, Mr. Zanganeh provided engineering services for the City's master planning concept which involved the streets, pedestrian promenade and waterfront edges from Church Street to Harrison Street and through Lee Wenner Park. Projects include the SR 520 underpass trail improvement, as well as other studies, such as T-dock, day slips, and seawall evaluation. The master plan includes conceptual ideas regarding the historic bridge pier, the use of the basin immediately south of Lee Wenner Park as well as some limited review of walking access to the downtown waterfront from the historic Cocoa Village Area. The plan considers the possibility of mooring field areas south of Lee Wenner Park. This planning effort will also lead into the design and construction management of several marine projects along the City of Cocoa Waterfront. The project also involved the design implementation of immediate marine repair projects resulting from Hurricane Irma damage.			<input checked="" type="checkbox"/> Check if project performed with current firm		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Kurt Stafflinger, PSM		13. ROLE IN THIS CONTRACT Professional Surveyor		14. YEARS EXPERIENCE	
				a. TOTAL 40	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services, <i>Melbourne Florida</i>					
16. EDUCATION (DEGREE AND SPECIALIZATION) AAS, Construction Technology at Erie Community College				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor: FL #5496 Professional Surveyor: NC #L5123 Professional Surveyor: AL #LS29430	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Background includes ALTA/ACSM Land Title Surveys for land development projects, topographic surveying for engineering and planning, engineering and construction lay-out and as-built surveying for heavy construction and aerospace infrastructure, hydrographic surveying on beaches, waterways and marinas, lay-out and as-built survey for utility installation and residential boundary surveying.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Professional Surveying & Mapping Services <i>City of Cocoa, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Senior Surveyor and Mapper for the project, Mr. Stafflinger has provided professional surveying services including topographic surveying, engineering and construction lay-out, and lay-out and as-built survey for utility installation and residential boundary surveying for the City of Cocoa Projects.			<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (<i>City and State</i>) Professional Surveying & Mapping Services <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Senior Surveyor and Mapper for the project, Mr. Stafflinger has provided professional surveying services including topographic surveying, engineering and construction lay-out, and lay-out and as-built survey for utility installation and residential boundary surveying for the City of Melbourne Projects.			<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Professional Surveying & Mapping Services <i>City of Deltona, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Senior Surveyor and Mapper for the project, Mr. Stafflinger has provided professional surveying services including topographic surveying, engineering and construction lay-out, and lay-out and as-built survey for utility installation and residential boundary surveying for the City of Deltona Projects.			<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Professional Surveying & Mapping Services <i>Dade City, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Senior Surveyor and Mapper for the project, Mr. Stafflinger has provided professional surveying services including topographic surveying, engineering and construction lay-out, and lay-out and as-built survey for utility installation and residential boundary surveying for the City of Dade City Projects.			<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Professional Surveying & Mapping Services <i>City of Rockledge, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Senior Surveyor and Mapper for the project, Mr. Stafflinger has provided professional surveying services including topographic surveying, engineering and construction lay-out, and lay-out and as-built survey for utility installation and residential boundary surveying for the City of Rockledge Projects.			<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Tom Mullin, P.E		13. ROLE IN THIS CONTRACT Chief Geotechnical Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 43	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) RADISE International, LC, Riviera Beach, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Geotechnical Engineering, University of Illinois B.S., Civil Engineering, University of Illinois				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #43366	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Mullin has managed projects involving transportation, major high rise towers, commercial buildings, power generating and industrial facilities, as well as landfill projects in Florida, Puerto Rico and the Caribbean. His skills include foundation design and construction, backfilling, test programs, quality control testing procedures and documentation, installation and evaluation of geotechnical monitoring instrumentation, vibration monitoring and pile load testing. He provides quality assurance oversight; CEI documentation; construction surveillance, inspection and testing; and technical peer review.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) HHD Culverts S-281 (C-5A) and S-282 (C-5) Structure Replacements, Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Geotechnical Engineer. Construction inspection and lab and field materials testing services including the demolition of existing Cul-verts and placement of new cast-in-place concrete culvert structures with gates and control systems and restoring the embankment, demolition of existing Culverts, the reconstruction of new structures and rehabilitation structure replacements. Also provided quality control services during concrete placement and casting of the building components. Services included a substantial role in inspection and oversight of earthwork tasks.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Everglades Agricultural Area A-1 Flow Equalization Basin Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Geotechnical Engineer. Geotechnical design and EDC (engineering during construction) materials testing as well as quality assurance and inspection. Tests include specific gravity, sieve analysis, proctor, organic content, moisture content and Atterberg limits. The work involved laboratory testing for embankment construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) HHD Culverts 5A/5, 4A/3 Replacement and Rehabilitation Palm Beach and Hendry Counties			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer. Construction inspection and materials testing services. The work included the demolition of existing Culverts, placement of new cast-in-place concrete culvert structures with gates and control systems and restoring the embankment and the reconstruction of new structures; and rehabilitation structure replacements for Culverts 5A and 5			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Riviera Beach Marina District South Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Geotechnical Engineer. Geotechnical and Environmental Engineering services including new construction of a Bicentennial Park, a boardwalk promenade, new streets and sidewalks, extensive utility improvements, temporary surface parking for up to 700 vehicles, and the construction of a new Newcomb Hall.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Lake Hicpochee Shallow storage and Hydraulic Enhancement Project, Glades and Henry County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Geotechnical Engineer: Geotechnical Investigation and Geotechnical Engineering Designs for the anticipated construction of approxi-mately 670 acres of new shallow (i.e. up to 1.8 feet) of temporary water storage areas and their impoundment levees and canals. The project will scalp water from the C-19 Canal leading to Lake Hicpochee to restore hydrology to the area to the extent possible.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Andrew Nixon, P.E		13. ROLE IN THIS CONTRACT Sr. Geotechnical Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 15	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) RADISE International, LC, Riviera Beach, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Ocean Engineering, Florida Atlantic University, 2005				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #71458	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA 40-hour Health and Safety / OSHA, 29 CFR 1919.120 (HAZWOPER) Qualified Stormwater Management Inspector, Inspector # 27919 Florida Engineering Leadership Institute Alumni, 2015 Florida Engineering Society Member (FES), National Society of Professional Engineers Member (NSPE) & American Society of Civil Engineers					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) SFWMD East Coast Protective Levee Project, Broward County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Engineer. Provided subsurface explorations and geotechnical engineering services including field permeability tests, direct simple shear tests, pin hole permeability tests, strength testing, etc. of the levee and toe materials.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) SFWMD STA-1 West Expansion Area 1, Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geotechnical Engineer. Provided subsurface explorations and geotechnical engineering services and materials testing services for the Contractor. Work included driven pile analyses, cofferdam and dewatering design, slope stability, etc.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Everglades Agricultural Area A-1 Flow Equalization Basin Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer. Geotechnical design and EDC (engineering during construction) materials testing as well as quality assurance and inspection. Tests include specific gravity, sieve analysis, proctor, organic content, moisture content and Atterberg limits. The work involved laboratory testing for embankment construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) HHD Culverts 5A/5, 4A/3 Replacement and Rehabilitation Palm Beach and Hendry Counties, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer. Geotechnical and Environmental Engineering services including new construction of a Bicentennial Park, a boardwalk promenade, new streets and sidewalks, extensive utility improvements, temporary surface parking for up to 700 vehicles, and the con-struction of a new Newcomb Hall.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Riviera Beach Marina District South Palm Beach County, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer: Geotechnical and Environmental Engineering services including new construction of a Bicentennial Park, a boardwalk promenade, new streets and sidewalks, extensive utility improvements, temporary surface parking for up to 700 vehicles, and the con-struction of a new Newcomb Hall.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Jon Shepherd		13. ROLE IN THIS CONTRACT Environmental Consultant		14. YEARS EXPERIENCE	
				a. TOTAL 25	b. WITH CURRENT FIRM 18
15. FIRM NAME AND LOCATION (<i>City and State</i>) Atlantic Environmental of Florida, LLC (Melbourne, Florida)					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Biological Sciences, Florida State University MS, Ecology, Florida Tech			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Wetland Scientist 00001400 Gopher Tortoise Authorized Agent GTA-09-00138A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Pineda Causeway Water Main (Brevard County, Florida) <i>City of Melbourne and City of Cocoa</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. The cities of Melbourne and Cocoa will install 20,000 linear feet of 16-inch water main via open cut, jack and bore, and horizontal directional drill on the south side of Pineda Causeway in the Indian and Banana Rivers. Atlantic Environmental delineated all wetlands abutting roadway, completed submerged aquatic resources surveys, and listed species surveys. Permits were acquired and mitigation provided for both FDEP and USACE requirements. Jon acted as the lead project ecologist. Construction cost: \$20M.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (<i>City and State</i>) St. Johns Heritage Parkway (Palm Bay, Florida) <i>City of Palm Bay</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Palm Bay constructed a 1.5-mile portion of the St. Johns Heritage Parkway from Babcock Street to the new interchange at I-95. Atlantic Environmental conducted all wetland delineations and listed species surveys for this roadway, provided mitigation and obtained permits allowing wetland impacts through SJRWMD and USACE, relocated the resident gopher tortoises, and acquired the Biological Opinion for Florida scrub-jay impacts. Jon acted as the lead project ecologist. Construction cost: \$10M.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Northrop Grumman Campus Expansion (Melbourne, Florida) <i>Northrop Grumman</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Atlantic Environmental completed wetland studies, wetland delineations, listed species surveys, and all environmental aspects of the ERP permitting for the 2018 Northrop Grumman campus expansion at the Orlando Melbourne International Airport. Atlantic Environmental interfaced with SJRWMD, USACE, FWC, and USFWS to acquire permits allowing the construction of all desired structures. Jon acted as the lead project ecologist. Construction cost: \$50M.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Al Tuttle Trail (Malabar, Florida) <i>Brevard County</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Atlantic Environmental Completed necessary gopher tortoise surveying and permitting to allow the acquisition of an on-site relocation permit from FWC. Relocated the tortoises within the project area to allow for the construction of the Brevard County trail system. Wetlands were delineated and approved through SJRWMD. Jon acted as the lead project ecologist. Construction cost: \$1M.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME David Purkerson		13. ROLE IN THIS CONTRACT Environmental Consultant		14. YEARS EXPERIENCE	
				a. TOTAL 22	b. WITH CURRENT FIRM 16
15. FIRM NAME AND LOCATION (<i>City and State</i>) Atlantic Environmental of Florida, LLC (Melbourne, Florida)					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Biology/Marine Sciences, university of Miami MS, Conservation Biology, San Francisco State University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Wetland Scientist 00001759 Gopher Tortoise Authorized Agent GTA-09-00139E	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Pineda Causeway Water Main (Brevard County, Florida) <i>City of Melbourne and City of Cocoa</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. The cities of Melbourne and Cocoa will install 20,000 linear feet of 16-inch water main via open cut, jack and bore, and horizontal directional drill on the south side of Pineda Causeway in the Indian and Banana Rivers. Atlantic Environmental delineated all wetlands abutting roadway, completed submerged aquatic resources surveys, and listed species surveys. Permits were acquired and mitigation provided for both FDEP and USACE requirements. Dave acted as the project ecologist. Construction cost: \$20M.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (<i>City and State</i>) St. Johns Heritage Parkway (Palm Bay, Florida) <i>City of Palm Bay</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Palm Bay constructed a 1.5-mile portion of the St. Johns Heritage Parkway from Babcock Street to the new interchange at I-95. Atlantic Environmental conducted all wetland delineations and listed species surveys for this roadway, provided mitigation and obtained permits allowing wetland impacts through SJRWMD and USACE, relocated the resident gopher tortoises, and acquired the Biological Opinion for Florida scrub-jay impacts. Dave acted as the project ecologist. Construction cost: \$10M.				<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Northrop Grumman Campus Expansion (Melbourne, Florida) <i>Northrop Grumman</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Atlantic Environmental completed wetland studies, wetland delineations, listed species surveys, and all environmental aspects of the ERP permitting for the 2018 Northrop Grumman campus expansion at the Orlando Melbourne International Airport. Atlantic Environmental interfaced with SJRWMD, USACE, FWC, and USFWS to acquire permits allowing the construction of all desired structures. Dave acted as the project ecologist. Construction cost: \$50M.				<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Al Tuttle Trail (Malabar, Florida) <i>Brevard County</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Consultant. Atlantic Environmental Completed necessary gopher tortoise surveying and permitting to allow the acquisition of an on-site relocation permit from FWC. Relocated the tortoises within the project area to allow for the construction of the Brevard County trail system. Wetlands were delineated and approved through SJRWMD. Dave acted as the project ecologist. Construction cost: \$1M.				<input checked="" type="checkbox"/> Check if project performed with current firm	

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Susan Hall, RLA, LEED AP		13. ROLE IN THIS CONTRACT Principal Landscape Architect		14. YEARS EXPERIENCE	
				a. TOTAL 41	b. WITH CURRENT FIRM 37
15. FIRM NAME AND LOCATION (<i>City and State</i>) Susan Hall landscape Architecture, Inc. - Merritt Island, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Landscape Architecture, Purdue University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Licensed Landscape Architect #853 / Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) LEED Certification					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Campus Planning & Master Landscape and Irrigation Design <i>Northrop Grumman Corporation, Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Preparation of design and bid documents for the campus-wide master landscape and irrigation design. Involved weekly coordination meetings and reviews of eleven phases of work as they occurred. Inspections and field reports for all phases were conducted. Landscape & irrigation costs: 2.7 million Performed with current firm.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (<i>City and State</i>) FDOT Diverging Diamond New Interchange <i>Brevard County, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Design and preparation of construction documents for Brevard County and FDOT for the landscaping of a new interchange at I-95 & Viera Boulevard; Project costs: \$700,000. Performed with Current Firm				<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (<i>City and State</i>) One Web Satellite Manufacturing, Space Exploration Park <i>North Merritt Island, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided site hardscape design, landscape and irrigation design for the new manufacturing plan, 20-acre site. Provided construction documents, permit support and administrative services throughout the project. Performed with current firm				<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Brevard Zoo Aquarium Project <i>Port Canaveral, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021-2022	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Site Landscape & irrigation design services, including exhibit and water plan design and construction document preparation for a new aquarium to be located at Port Canaveral; Estimated project costs: 90M;				<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (<i>City and State</i>) JetBlue Training Facility <i>Greater Orlando Airport Authority, Orlando, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Site hardscape, landscape and irrigation design services and construction/bid documents; Site inspections upon completion of work. Estimated Project Costs: 20M; Performed with current firm				<input checked="" type="checkbox"/> Check if project performed with current firm	
f.	(1) TITLE AND LOCATION (<i>City and State</i>) Sherwood Park Water Quality Project <i>City of Melbourne, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved LID design principles for water treatment and filtration within a residential neighborhood in north Melbourne. Settlement ponds were created with landscaping to provide water filtration and water cleansing. Project cost: 4 M.				<input checked="" type="checkbox"/> Check if project performed with current firm	

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME DAVID GREEN		13. ROLE IN THIS CONTRACT Funding Assistance		14. YEARS EXPERIENCE	
				a. TOTAL 44	b. WITH CURRENT FIRM 44
15. FIRM NAME AND LOCATION (City and State) Jacobs – Fort Lauderdale, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Economics, Portland State University B.S., Agricultural and Natural Resource Economics, Oregon State University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) N/A					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water Treatment Master Plan Financial Analysis City of Melbourne, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Task Lead, the water treatment master plan for the City, identified two alternative capital plans for the City's water treatment facilities over a forecast 15-year period. Prepared a financial plan for the combined water and wastewater system that spread the required rate adjustments needed to cover the proposed water treatment and other planned combined system improvements and other financial commitments equally out over the forecast period.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) CIP Prioritization Analyses Seminole Tribe of Florida, Hollywood, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Economist, led analyses that prioritize the STOF's proposed capital improvement projects based on an explicit analysis of the value and benefits that each candidate project provides towards meeting the STOF's goals and objectives.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Numerous Rate and Financial Studies City of Fort Lauderdale, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The City began an extensive capital improvement program to update its waterworks infrastructure. Led the preparation of 5 bond feasibility report and led the preparation of bond feasibility reports for the City. Other work for the City involved preparation of a cost of service rate analysis for the City's water and wastewater system, drought restriction rate analyses, impact fee analyses, annual capital renewal and replacement funding analyses, biennial bond engineer's reports required by the City's bond covenants, numerous additional financial studies, and numerous State Revolving Fund loan applications for the City.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Miami-Dade County Ocean Outfall Program City of Miami, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Economist, conducted a prioritization analysis for 3 programs. These programs which involve over \$5 billion in regulatory mandated or state legislative prescribed improvements that the County needs to implement over the next 30 years to eliminate the County's discharge of wastewater effluent into the ocean, eliminate sanitary sewer overflows (SSOs), and repair or replace a large number of pump stations throughout their wastewater collection system. Each project within each program has been evaluated against 11 criteria that have been identified as important to meeting the County's overall goals and objectives, and prioritized based on their expected performance in helping to achieve these goals.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Rate and Financial Services North Springs Improvement District (Coral Springs/Parkland), Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Led several financial analyses for NSID, including multi-year water, wastewater, and reuse rate studies, bond engineer's reports for revenue bond issues, connection fee analyses, and engineer's reports for assessment revenue bonds for numerous developments in the District's service area.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME James Decker		13. ROLE IN THIS CONTRACT Utility Asset Management		14. YEARS EXPERIENCE	
				a. TOTAL 19	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Jacobs - Columbus, Ohio					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: OH, PE-71844	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certificate, Institute of Asset Management (IAM) Certified Reliability Leader (CRL)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Asset Management Planning, Great Lakes Water Authority Detroit, Michigan			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018-Present	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Strategic asset management plan and tactical asset management plans for water and wastewater systems. Cost: \$4.3 million. Role: Deputy Project Manager. Assisting to lead the management of the Asset Management Planning project. Jamie has assisted with the AM Assessment of GLWA's current practices against international best AM practices, development of their Strategic Asset Management Plan (SAMP) as well as looking at the technology needs for GLWA asset management program. He also has been coordinating AM training for GLWA staff. In addition, Jamie is the task lead for the development of the water system and wastewater system tactical asset management plans that will be aligned with the SAMP. The team has developed multiple improvement initiatives for GLWA to implement to better manage, operate and maintain their assets. The team is currently assisting GLWA implement a number of the improvement initiatives including development of data standards and asset onboarding processes, governance and service levels.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Sanitary and Stormwater Systems Asset Management Plans (AMPs) City of Ann Arbor, Michigan			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016-Present	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Sanitary and Stormwater Systems AMPs. Cost: \$1.2 million. Role: Project Manager. Leading the management of the consultant team to develop best practice AMPs for the City's sanitary and stormwater collection systems. The AMPs will look at both O&M strategies, as well as capital improvements, to develop a sustainable long-term funding plan for the City to meet their agreed upon level of service for each of the systems. Jacobs utilized their System Condition Risk-Enhanced Assessment Model (SCREAM) and GIS tools to quickly assess Ann Arbor's existing data and provide initial analysis of their systems. In addition, led the assessment and selection of AM software systems to be used by the City and the Jacobs team is working on implementing and integrating this solution with Cityworks CMMS, GIS, IT Pipes CCTV software and other City IT systems.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Sewer Collection System Condition Assessment, Capital Planning, and Maintenance Optimization Jurupa Community Services District, California			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020-Present	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Sewer Condition Assessment and Tactical AMP Development. Cost: \$1,400,000. Role: AM Task Lead. Leading the task development of the tactical Asset Management Plan (TAMP) for JCSD, and assisting with the implementation and integration of Jacobs SCREAM tool for managing their asset data. In addition, the team will be developing CCTV quality control processes to be used by the CCTV contractor as well as the District. Collection system maintenance practices will also be updated to be optimized as part of the program.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Water Asset Management Plan Task, Cleveland Water Department Cleveland, Ohio			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018-2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: AMP development and update. Cost: \$250,000. Role: AM Task Lead. Lead Consultant to develop a Water AMP for the city's water treatment and distribution systems. The task focused on developing an AMP in compliance with Ohio Environmental Protection Agency's AM requirements. The AMP included documenting asset inventory, condition assessment data, risk, levels of service, O&M procedures, Capital and Operations expenditure protocols and improvement initiatives. Jamie also implement an asset risk scoring that was the basis for defining priority process areas to evaluate in an Excel-based risk model. He also led an AM Maturity Assessment of CWD's current AM practices and developed a roadmap for improvement initiatives for the future. Jamie has also lead the task to provide an annual update to the Water AMP to include new state requirements.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME RAUL ALFARO, EI, ENV SP		13. ROLE IN THIS CONTRACT Utility Engineer – Data & Security Specialist		14. YEARS EXPERIENCE	
				a. TOTAL 5	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Jacobs – Fort Lauderdale, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering, Florida International University				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL Pending (Verification Link) Florida E.I.#: 1100020887 ENV SP: 24443	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) AWWA J100 Utility Risk and Resilience Certificate, FEMA ICS: 100, 200, and 700					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) Condition Assessment, Comprehensive Utilities Master Plan <i>City of Pembroke Pines, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Task Lead and Process Engineer. Managed a multi-discipline team on fast-tracked condition assessment project for the City of Pembroke Pines. The comprehensive assessment established a baseline of assets, unit processes, and components of water supply, treatment, and distribution system from which renewal and replacement projects were prioritized and included in the City’s Capital Improvement Plan.				<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (<i>City and State</i>) Wastewater Force Main Network Risk Assessment <i>City of Fort Lauderdale, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Assisted in the development of detailed risk matrix that identified the likelihood and consequence of failure of each pipe segment in the City’s 113-mile force main wastewater network using GIS records, as-built records, and institutional knowledge. The results of this consent order-driven project were used for the planning of future projects to address identified risks.				<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Groundwater Rule Evaluation: Four-Log Virus Treatment of Ground Water <i>City of Pembroke Pines, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Responsible for performing chlorine contact time (CT) calculations and finding disinfection alternatives to achieve 4-log virus inactivation through sodium hypochlorite disinfection and comply with regulatory requirements of the Environmental Protection Agency’s (EPA) Groundwater Rule and Florida’s Bird Rule.				<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Gibb Park Resilience Assessment <i>The Nature Conservancy, Miami Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Associate Engineer. Associate engineer responsible for data collection/observations of Gibb Park resilience planning project, with primary focus on stormwater features, wastewater lift station, and site/civil observations. The conceptual study focused on surge modeling with specific design storms and sea level rise projections for Gibb Park site with the goal to evaluate options to increase resiliency along the shoreline.				<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Norwood Water Treatment Plant Phase 1 and Phase 2 Improvements and Expansions <i>North Miami Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer Associate engineer responsible for assisting in the engineering and design of water treatment facility to expand the production capacity of the reverse osmosis (RO) and nanofiltration (NF) systems. Performed process evaluation calculation and membrane projections, modifications to Ground Water Rule evaluations and South Florida Water Management District Water Use Permit, and CT calculations for the membrane expansions.				<input checked="" type="checkbox"/> Check if project performed with current firm	

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME Emory David White		13. ROLE IN THIS CONTRACT Senior Construction Manager		14. YEARS EXPERIENCE	
				a. TOTAL 55	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Infrastructure Solution Services <i>Melbourne, Florida</i>					
16. EDUCATION (DEGREE AND SPECIALIZATION) Engineering / Architecture, Brevard Community College Business, Northern Virginia Community College			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FDOT Temporary Traffic Control (MOT) Certificate # 12585 State of Florida Underground Utility Contractor License 2008 FL Water and Pollution Control Operators Association - Water (C), Sewer (B), Storm Water (B)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Drone Aerials Constructability & Value Engineering Reviews Cost Estimating & Scheduling Horizontal Direction Drilling (HDD)					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Sylvan Estates Septic to Sewer <i>City of West Melbourne</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a senior construction manager / inspector, Mr. White provides construction oversight and inspection services for various utility infrastructure projects. Since joining ISS, he has managed the construction phase engineering services for the City of West Melbourne Sylvan Estates Septic to Sewer Project.			<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Greenboro Force Main Replacement Project <i>City of West Melbourne</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a senior construction manager / inspector, Mr. White provides construction oversight and inspection services for various utility infrastructure projects. Since joining ISS, he has managed the construction phase engineering services for the City of West Melbourne Greenboro Force Main Replacement Project.			<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Coastal/Brandywine to Columbia Forcemain Replacement Project <i>City of West Melbourne</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a senior construction manager / inspector, Mr. White provides construction oversight and inspection services for various utility infrastructure projects. Since joining ISS, he has managed the construction phase engineering services for the City of West Melbourne Coastal/Brandywine to Columbia Forcemain Replacement Project.			<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Indian River Isles Septic to Sewer Conversion Project <i>Brevard County Utilities Services District</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2022 (Estimated)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a senior construction manager / inspector, Mr. White provides construction oversight and inspection services for various utility infrastructure projects. Since joining ISS, he has managed the construction phase engineering services for the Brevard County Utilities Services District Indian River Isles Septic to Sewer Conversion Project.			<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Directional Drill Pipeline Projects <i>Various Clients for Youngs Communications Co.</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As construction manager, Mr. White was responsible for overseeing the overall direction, progression, and completion of assigned pipeline projects including horizontal direction drilling and open cut excavation. He supported the facilitation of monthly progress meetings to include owners, engineering firms, and municipalities.			<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME DAVID SCOTT, PE		13. ROLE IN THIS CONTRACT Construction Management & Administration		14. YEARS EXPERIENCE	
				a. TOTAL 24	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) Jacobs Engineering Group (Palm Beach Gardens, Florida)					
16. EDUCATION (DEGREE AND SPECIALIZATION) Agricultural and Biological Engineering, University of Florida				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: FL #58166	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ASABE Executive Committee Chair 2012-2013, ASABE Distinguished Service Award 2017					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Remote Pump Station Sodium Hypochlorite Storage <i>City of West Palm Beach, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2016 - 2019	CONSTRUCTION (If applicable) 2016 - 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project consisted of providing construction services for the removal of existing chlorine gas system, installation of storage tanks, controls, and pumping systems for a sodium hypochlorite injection system at five remote pump stations for the City of West Palm Beach.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Solar Energy Projects – Site Civil Design <i>Florida Power & Light</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017 - Present	CONSTRUCTION (If applicable) 2018 - Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Engineer of Record for the site civil design and permitting of twelve solar energy projects throughout Florida generating approximately 900 MW of power. The solar projects included preliminary site civil design of the projects using the FPL “civil light” design concept and preparation of calculations in support of FDEP ERP Permitting.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) RS-G341 Conveyance Improvement Project, Bolles East (L16) Canal, Segments 1, 2, 3, 4 and 5 FL <i>South Florida Water Management District (SFWMD)</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015 - Present	CONSTRUCTION (If applicable) 2015 - Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Bolles Canal project consists of development of a conceptual design and hydraulic modeling of the expansion of approximately nine miles of the Bolles East (L16) Canal from the North New River to the Hillsborough River. The project required extensive coordination with adjacent property owners to relocate existing adjacent farm ditches and culverts and to ensure that the existing drainage systems are functional during construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) L-8 Reservoir Project, Loxahatchee – Palm Beach County, FL <i>South Florida Water Management District (SFWMD)</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2012 - 2016	CONSTRUCTION (If applicable) 2013 - 2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for Permitting and Civil design elements of the L-8 Reservoir project. The L-8 Reservoir project is a 1000-acre reservoir with over 45,000 acre-feet of water storage volume located in western Palm Beach County. The project is a design build project with a budget of approximately \$65 million. The project consists of constructing a 450 cfs pump station, a 3000 cfs inflow structure and bridge and over 5 miles of roller compacted concrete revetment to resist wind driven waves.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) City of West Palm Beach 48 inch diameter Force Main Lining Project <i>City of West Palm Beach</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017-2018	CONSTRUCTION (If applicable) 2018-2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Project Manager for the project approximately 2 miles of 48 inch diameter force main. Work included development of maintenance of traffic plans and preparation of permit applications.			<input checked="" type="checkbox"/> Check if project performed with current firm		
f.	(1) TITLE AND LOCATION (City and State) Terrace Drain and Water Control Structure Repair Project, C.W. Bill Young Reservoir <i>Tampa Bay Water</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2015 - 2016	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager – Engineer of Record: The project consisted of design of repair / replacement for the terrace drain system and water control structures for the C.W. Bill Young Reservoir. Many of the external drains failed due to leaking pipe joints due to improperly installed pipe. The project consisted of evaluating the existing condition and developed a designs to repair or replace the failing system. The construction plans included the implementation of stormwater management BMP’s for erosion and sedimentation prevention during construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME SIRPA HALL, PE, ENV SP		13. ROLE IN THIS CONTRACT SME Advisory Panel - Program Management Specialist		14. YEARS EXPERIENCE	
				a. TOTAL 35	b. WITH CURRENT FIRM 30
15. FIRM NAME AND LOCATION (City and State) Jacobs – Fort Lauderdale, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering, Saimaa University			17. CURRENT PROFESSIONAL REGISTRATION (<i>State and Discipline</i>) Professional Engineer: FL (2016#80609), CA (1994, #C52329), WA(1995 [inactive], #31962), IA (2001, #15616)/ Civil		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Sirpa Hall is authorized representative of Jacobs with signature authority. She has an extensive background in engineering, team leadership, financial management, scope and fee development, contract negotiations, contracting, scheduling, quality management, project controls, client interface, and presentations. Envision Sustainability Professional (ENV SP).					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (<i>City and State</i>) General Wastewater Engineering Services <i>City of Key West, Florida</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge/Manager. Multiple work orders in varying size and complexity. Currently delivering 14 ask orders and total \$1.8 million in revenue fee. Projects have included design of storm water collection catch basins and piping; installation of a new control system for effluent pump, programming of the system, associated electrical and instrumentation; engineering services for feasibility investigations of a trenchless installation of city wastewater utilities across Fleming Channel; engineering services for design, permitting and bid phase services for the rehabilitation of two pump stations; design and permitting assistance for the abandonment of several stormwater gravity wells; design of mooring Improvements for the Mallory Square cruise berth; comprehensive post disaster recovery and reconstruction plan; guidance in support of the application of sea level rise and rainfall projections and the development of tidal boundary conditions for use in stormwater management and other projects.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (<i>City and State</i>) General Wastewater Consultant Professional A/E and Civil Engineering Services <i>City of Fort Lauderdale, FL</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge/Manager of Projects. Projects have included task orders for water and sewer revenue refunding bond study and replacement of the pure oxygen system at the G. T Lohmeyer WWTP. Responsible for performance and oversight of the project delivery and project team. Closely working with the project manager to ensure our project delivery meets the client expectations.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Water and Sewer Department Non-Exclusive Professional Engineering Services <i>Miami-Dade County, FL</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge/Manager of Projects. Task order agreement to provide design and construction management services to the Miami-Dade South District wastewater treatment plant and its appurtenant facilities. Several task orders in varying size and complexity, including the design for oxygen production compressor building and cryogenic oxygen plant upgrades, permitting, bidding assistance and services during construction.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Consultant Services (CCNA) for Architectural and Engineering Services, <i>City of Deerfield Beach, FL</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge - Manager of Projects. Task Orders have included west water treatment plan disinfection study, rehabilitation of the west wellfields, and disinfection byproduct study. Responsible for performance and oversight of the project delivery and project team. Review and approval responsibility and authorized signer for task orders.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (<i>City and State</i>) <i>Client</i> FKA General Engineering Services Agreement <i>Key West, FL</i>			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal in Charge - Manager of Projects. Responsible for oversight of the project delivery and project team. Project has included SCADA and other support services work orders. Review and approval responsibility and authorized signer for task orders.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME JASON BIRD, CFM		13. ROLE IN THIS CONTRACT Climate Change Resilience Specialist		14. YEARS EXPERIENCE	
				a. TOTAL 21	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Jacobs – Tampa, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) AA, Central Florida Community College, Course work in Civil Engineering with Construction Management focus, University of Central Florida				17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) CFM #US-19-10971	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Organizations: Former Chair of United Nations ARISE US Network, to drive resilience through public and private collaboration. Publications: <ul style="list-style-type: none"> • Impacts of Sea Level Rise on Disease Transmission and Adaptation Strategies. Co-Author. University of Miami. 2017 • ENR Magazine, “10 Minutes With: Lessons of Resilience From Hurricane Michael,” Oct. 2018 • United Nations Disaster Risk Reduction, Building Scorecard, Jan. 2020 • NewCities, “The Big Picture, the Case for Higher Ground,” Feb. 2020 • ABC News interview, “Its not too late” climate and environment-focused segment on “Flooding and sea level rise and their effects on buildings that weren’t built to be resilient to climate change,” in response to the tragic collapse of a residential condominium in Surfside, FL in June 2021. 					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) American Water Infrastructure Act 2018 City of Fort Lauderdale, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Resilience Lead. As part of the EPA mandate, led the natural hazard assessment for the Risk and Resilience Assessments and Emergency Response Plans for multiple water utilities in Florida and across the US. This all hazards approach reviewed critical assets to reduce risk, improve reliability and maintain system operations against all potential threats identified for each facility and utility system.			<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Ocean Outfall Legislation (OOL) Program – West District-Water Reclamation Facility Conceptual Design Report Miami Dade County, Water and Sewer Dept.			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Resilience Task Lead. Performed review of current and future climate/flood hazards including storm surge, sea level rise, and rainfall that influence elevated groundwater levels and pose risks to the proposed WWTP. Prepared minimum design criteria and adaptation strategies to mitigate flood risk and published for conceptual design report.			<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Sea Level Rise Policy City of Key West, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Resilience Lead. Performed climate science review and tidal conditions analysis to inform development of flood scenarios and boundary conditions for future conditions stormwater modeling and minimum design criteria for critical infrastructure like roads, sea walls, utilities, and broader City land development regulations.			<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Resilience Masterplan for Water, Wastewater Utilities JEA, Jacksonville, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2018-2020	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Vulnerability task lead for review of all JEA water and wastewater assets to inform immediate, near term and longer-term activities to harden systems against flood risk and broader climate impacts. Develop adaptation strategies, perform benefit cost analysis and prioritize as part of phased implementation plan to protect utility against future storm impacts. Benchmark utility against other resilience leading utilities and prepare resilience plan for continued assessment and advancement of utility LOS and future climate resilience.			<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Integrated Sea Level Rise Mitigation and Stormwater Management Plan City of Miami Beach, Florida.			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019-2020	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Multi-disciplinary flood mitigation project focused on reducing flood risk in the City of Miami Beach through a comprehensive and integrated approach to managing water resources. Developing a flexible policy that will meet the needs of each project/neighborhood while promoting harmonization for vehicles and ADA access to all private properties.			<input checked="" type="checkbox"/> Check if project performed with current firm	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME ANGELA GIULIANO, PG		13. ROLE IN THIS CONTRACT Hydrogeologist		14. YEARS EXPERIENCE	
				a. TOTAL 9	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Jacobs – Miami, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) M.S. Geology, East Carolina University B.S. Geology, Radford University A.S. Science, Tidewater Community College			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Geologist: FL #PG3063		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Manda, A.K., Giuliano, A.S. & Allen, T.R., 2014. Influence of artificial channels on the source and extent of saline water intrusion in the wind tide dominated wetlands of the southern Albemarle estuarine system (USA). Environmental Earth Sciences.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) West Water Treatment Plant FDEP UIC Class I Injection Well, IW-1, Operation Repermitting Application City of Boynton Beach, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Hydrogeologist. Prepared application for operation repermitting, coordinate with the FDEP, and review operational data on behalf of the City. Reviewed operational testing data and prepared FDEP UIC Operation Permit Application.			<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Miami-Dade County Ocean Outfall Legislation Program Miami-Dade County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2025 (Estimated)	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Hydrogeologist/Field Inspector Management and Technical Lead for unprecedented scale injection well implementation project planning and program management. Over the next decade the program will be responsible for installing 15-20 new large diameter injection wells to depths of approximately 3,200 feet to accommodate over 1 billion gallons of treated wastewater per day.			<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Mechanical Integrity Testing of Class I Injection Wells 3 and 4 at Gulf Power Plant Smith Gulf Power Company, Pensacola, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Observed mechanical integrity testing to include well video survey, casing pressure testing, and radioactive tracer testing. Prepared a comprehensive report on behalf of Gulf Power. Provided coordination and correspondence with FDEP during testing.			<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) City of Deerfield Beach West Water Treatment Plant Wellfield Testing and Rehabilitation, Deerfield Beach, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hydrogeologist. Project scope include testing of six (6) Surficial aquifer production well water quality and pump performance to evaluate well performance and overall West wellfield production. Responsibilities: Responsibilities include coordination with water treatment plant, data management, water quality sampling, and evaluation of data to prepare a comprehensive report with recommendations for rehabilitation. Preliminary well video logging and interpretation, rehabilitation oversight, development, testing, and post video logging.			<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Ocean Outfall Legislation Program Miami, FL			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hydrogeologist. Management and technical lead for unprecedented scale injection well implementation project planning and program management. Over the next decade the program will be responsible for installing 15-20 new large diameter (24-inch) injection wells to depths of approximately 3,200 feet to accommodate over 1 billion gallons of treated wastewater per day. Responsibilities: Support program-level management and oversight of the design consultant and contractor during critical construction activities of twelve (12) municipal injection wells. Prepare daily construction reports and provide robust quality control and review of FDEP weekly reports for regulatory compliance. Assist program manager with review and updates to program schedule for well construction projects, assist with permitting and procurement activities. Provide SharePoint support for direct collection and management of data for each contract.			<input checked="" type="checkbox"/> Check if project performed with current firm		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION <i>(City and State)</i> ST. LUCIE WATER SERVICES DISTRICT WATER, SEWER, AND RECLAIMED WATER CONTINUING UTILITY ENGINEERING SERVICES <i>St. Lucie County, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015 - Ongoing (Multi-Year Continuing Contract) <i>Other Projects were completed by ISS Team Members with Prior Firm</i>	CONSTRUCTION <i>(If applicable)</i> Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER St. Lucie West Services District (SLWSD)	b. POINT OF CONTACT NAME Dennis Pickle - District Manager / Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (772) 340-0220
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>ISS has completed several projects under this continuing utility engineering services contract for the SLWSD including the following:</p> <p>Raw Water Blending Analysis and Pilot Study: ISS performed a desktop analysis follow-up with a pilot study to determine the feasibility to blend a filtered groundwater source with SLWSD's reverse osmosis permeate to reduce or eliminate the use of calcite contactors for stabilization and to provide sufficient natural fluoride to eliminate the addition of fluoride. <i>Engineering Pilot Study Fee - \$45K / Construction Cost - N/A; Start - 2021 / Completed - Underway</i></p> <p>FDEP WWTF Permit Renewal: Prepared the FDEP WWTP permit and required engineering reports (Capacity Analysis Report, and Operations and Maintenance Performance Report) and related documents to assist with renewal of the operating permit at the WWTP. <i>Engineering Fee - \$25,000 / Construction Cost - N/A; Start - 2021 / Completed - 2021</i></p> <p>Water System Main Transmission Bypass Piping: ISS provided the engineering survey, design, and permitting of 1800 LF of 20-inch diameter water transmission main bypass piping to connect the SLWSD ROWTP to the main transmission piping. This project included two design/construct options including a base bid to open cut the entire pipeline and restoration of the golf course property and an alternate bid of directional drilling 1,000 LF of pipe under the golf course property. <i>Engineering Fee - \$50,000 / Construction Cost - \$600,000; Start - 2020 / Completed - 2021</i></p> <p>Main Irrigation Reclaimed Water Pump Station: Designed, permitted, and provided construction services support for the design of a 4,500 GPM capacity reclaimed water distribution pump station. <i>Engineering Fee - \$120,000 / Construction Cost - \$900,000; Start - 2019 / Completed - 2020</i></p> <p>WWTP Filter No. 2 Replacement Design and Bidding: Completed the design of a cloth media disk filter system within the concrete structure to replace an old traveling bridge sand filter. <i>Engineering Fee - \$85,000 / Construction Cost - \$900,000 (Estimated); Start - 2019 / Completed - On Hold</i></p> <p>Lift Station No. 1 Design and Permitting: Due to a property acquisition in connection with a new development, SLWSD identified a need to move and construct a new lift station #1 and modify the gravity and force main piping route and connections. ISS completed the preliminary and final design and permitting of this key pump station in 45 days. <i>Engineering Fee - \$25,000 / Construction Cost - \$400K; Start - 2015 / Completed - 2016</i></p> <p>WWTF Expansion and Improvements: With recent growth and redevelopment within the SLWSD Service Area, the District determined the need for additional wastewater treatment capacity. ISS team members were hired to complete the evaluation, design, and services during construction for the SLWSD WWTP expansion to increase capacity to 2.9 MGD and convert the</p>		



SLWSD WTF Aerial View



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

treatment process to include biological nutrient removal and new filtration systems. *Engineering Fee - \$280K / Construction Cost - \$9M; Start - 2013 / Completed - 2015*

ROWTF Concentrate Water Main Piping to Blending with Reclaimed Irrigation: ISS provided the planning, pre-permit approvals, engineering survey, design, permitting, and services during construction of a 2,200 LF 12" HDPE piping system. ISS completed a cost analysis and determined that this piping project should be completed through directional boring. The majority of this ROWTF concentrate water main piping was directional bored to allow easier and more cost-effective construction under the site constraints of the project site. This ROWTF concentrate piping connection was developed to allow concentrate to blend at an appropriate ratio with the reclaimed water to be used for irrigation. The raw water/concentrate was piped from the ROWTF and pumped to a large pond to provide an additional irrigation water source in lieu of being sent to a storage tank and discharged to the onsite underground injection well. This project allowed SLWSD to beneficially increase the volume of reclaimed irrigation water in the system. *Engineering Fee - \$25,000 / Construction Cost - N/A; Start - 2014 / Completed - 2015*



SLWSD WWTF Reclaimed Water - ROWTP Concentrate Blending Line

WWTF Biosolids Evaluation and Preliminary Design: Evaluation and preliminary design phase that led to the addition of a new volute screw press dewatering system. *Engineering Fee - \$40,000 / Construction Cost - \$600,000; Start - 2013 / Completed - 2014*

Water Treatment Plant High-Service Pump Piping Connection: ISS provided the engineering design, permitting, and services during construction of 700 LF of 24" and 18" ductile iron piping for the high-service pump connection to large diameter treated water transmission mains. This project was all open cut and included key bypass flow coordination during water main system tie-ins. This piping connection project has improved operational access and reliability for the SLWSD. *Engineering Fee - \$23K / Construction Cost - \$250K; Start - 2014 / Completed - 2014*

Reverse Osmosis Water Treatment Facility (ROWTF) Expansion: The ISS project team provided preliminary engineering for the water treatment plant process expansion to include the preliminary engineering evaluation and determination of the WTP equipment requiring capacity upgrades. This expansion included an additional 1.7 MGD reverse osmosis skid to boost capacity and provide redundancy to the existing 3.4 MGD RO WTP resulting in a 5.1 MGD capacity of RO treatment. *Engineering Fee - \$180K / Construction Cost - \$1.8M; Start - 2012 / Completed - 2013*



SLWSD ROWTP Skid

Finished Water Corrosion Engineering Evaluation and Report: The SLWSD Water System was receiving customer complaints concerning having corrosion issues in the distribution system. ISS team members completed a water system and water quality engineering evaluation and report. As a part of the evaluation, ISS team members calculated the Langlier/ Ryznar indices of the water to determine the need for improvements in this water treatment system as it related to transmission main and distribution piping for the customers. *Engineering Evaluation Fee - \$24K; Start - 2012 / Completed - 2012*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT


a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	Infrastructure Solution Services	Melbourne, Florida	Prime Engineering Firm



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION <i>(City and State)</i> PROFESSIONAL ENGINEERING SERVICES CONTINUING CONTRACT FOR UTILITIES AND PUBLIC WORKS <i>West Melbourne, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015 - Ongoing (Multi-Year Continuing Contract)	CONSTRUCTION <i>(If applicable)</i> 2021
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of West Melbourne, Florida	b. POINT OF CONTACT NAME Scott Morgan - City Manager	c. POINT OF CONTACT TELEPHONE NUMBER (321) 837-7777
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>Since 2015, ISS has completed numerous engineering projects under this continuing contract which included water distribution, wastewater collection, force mains, treatment facility improvements, stormwater systems, roadway paving, lighting, and miscellaneous parks projects. Relevant projects are listed below:</p> <p>Sylvan Estates Septic to Sewer Conversion - ISS is currently supporting this project to convert the homes within Sylvan Estates from septic systems to a new central sewer collection system. The project serves 74 residential connections including single-family homes, each with their own septic system. There are canals on the east, west, and south sides of this neighborhood that flow to the Indian River Lagoon. The 33 homes located along the canals have septic systems that are within 55 yards of a surface water and are therefore the highest priority targets to connect to central sewer.</p> <p>During the design phase, ISS provided all the engineering surveying, subsurface locates, completion of all the engineering design including all plans and specifications, and Florida Department of Environmental Protection (FDEP) permitting. ISS started the preliminary engineering work off City-provided LiDAR data and collected and reviewed available as-built information, utility information from the City and Brevard County, LiDAR topography, and performed site visits.</p> <p>The team provided a preliminary design and recommendation of improvements for the conversion including suggestions for sanitary system locations, determination of whether a new lift station will be required, suggested tie-in locations, etc. These recommendations were provided in a Technical Letter Report with conceptual level/schematic figures. ISS also completed the final design level drawings, calculations, and hydraulic modeling for this project. Field surveying work for the project included the right-of way, topo, and specific survey on private property for new gravity sewer work and connections, plus new lift stations and force main runs. The survey work included utility easement acquisition work for the new gravity sewer, lift stations, and force mains on private property. ISS completed the utility engineering for all sewer piping and connections, the lift stations, and the force mains and completed the pavement restoration and traffic control for work within the roadway. ISS also provided a preliminary</p>		
<div style="background-color: #0056b3; color: white; padding: 10px;"> <p align="center"><i>"Our [wastewater system] project is a major undertaking for the City. The one firm that we have done a lot of work with, ISS, has done 10 projects for the City in the last several years, and everyone has been very successful. That's been drainage, it's been water, it's been wastewater.</i></p> <p align="center"><i>"In terms of grant funding, ISS prepared the WWTP project technical memorandum to get us SOIRL funding... ISS experience with the IRL half-cent sales tax funding has helped. They are very familiar with the staff at Brevard County that administer this program both on the intake of applications but also on the monitoring side. On the Sylvan Drive Septic to Sewer project, we got a lot of good support on a tough project from ISS... We ended up with about 86-88% grant funding. Familiarity with this particular SOIRL grant, that's funding the lion's share of this project, is what makes ISS an advantage for our WWTP project."</i></p> <p align="center"><i>- Mr. Scott Morgan, City Manager, City of West Melbourne</i></p> </div>		
<div style="text-align: right;">  <p align="center">Sylvan Drive Gravity Sewer Installation</p> </div>		

**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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

design cost estimate and submitted a SOIRL Project Plan application for the recommended improvements and completed all the permitting for the project.

ISS is currently providing services during construction involving construction administration, procurement services including preparation of the construction bid documents, preparation of record drawings for the City at project closeout, and assistance with the lift station start-up. *Engineering Fee - \$200,000 / Construction Cost - \$2,300,000; Start – 2019 / Completed – 2021*



Making the final connections on the Greensboro Force Main project.

Melbourne Estates Watermain Replacement - Replacement of approximately 13,000 LF of 12-inch potable watermains serving 86 service connections. The majority of the existing watermains are constructed of asbestos cement pipe. The project is nearing completion of design. *Engineering Fee - \$145,000 / Construction Cost - \$1,900,000 (Estimated); Start – 2019 / Completed – 2020*

Columbia Lane to Brandywine Lane Watermain – ISS esignedsign of a 4,300 LF extension of new 16” watermain. The project included directional drill under two state highways and one county road. The project is under construction. *Engineering Fee - \$145,000 / Construction Cost - \$1,100,000; Start – 2019 / Completed – 2019*

Greensboro Force Main Replacement - Replacement of approximately 3,300 LF of 10” sanitary force main with new 12” force main and replacement of approximately 1100 LF of 4” force main with a similarly sized force main. Project is currently under construction. *Engineering Fee - \$85,000 / Construction Cost - \$850,000 (Estimated); Start – 2018 / Completed – 2019*



Garrett's Run 10-inch Force Main Replacement

McClain Drive Watermain Replacement - Replacement of 1,300 LF of existing asbestos cement watermain. This watermain project was designed around several underground utilities. This project had a tight access corridor with a significant amount of utilities in the right of way. This project was successfully constructed in 2018. *Engineering Fee - \$25,000 / Construction Cost - \$165,000; Start – 2018 / Completed – 2018*

Garrett's Run Force Main Replacement - Replacement of 3,100 LF of 10-inch force main from South Street (Lift Station 105) to south of New Haven Avenue. The project also includes the design of an additional 750 LF of replacement 10-inch force main south to Helen Street which will follow the same route as the existing 10” force main. *Engineering Fee - \$50,000 / Construction Cost - \$650,000; Start – 2016 / Completed – 2017*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Infrastructure Solution Services	(2) FIRM LOCATION (<i>City and State</i>) Melbourne, Florida	(3) ROLE Prime Engineering Firm
b..	(1) FIRM NAME Jacobs	(2) FIRM LOCATION (<i>City and State</i>) Orlando, Florida	(3) ROLE Operations for the WW Collection System Services

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3	
21. TITLE AND LOCATION <i>(City and State)</i> UTILITY ENGINEERING AND FUNDING SERVICES CONTINUING CONTRACT <i>Martin County, Florida</i>	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES 2017 - Ongoing (Multi-Year Continuing Contract)	CONSTRUCTION <i>(If applicable)</i> 2019 - Ongoing	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Martin County, Florida	b. POINT OF CONTACT NAME Samuel Amerson, PE, Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (772) 223-7942	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>ISS has assisted Martin County on various planning and engineering projects since 2017.</p> <p>Utility Relocation for the Kanner Highway Roadway Expansion – Provided engineering design and CADD support for the relocation of utilities and preparation of the FDOT permit application including documentation and application backup data. Also prepared FDEP notifications for water main and force main component relocation. <i>Engineering Fee - \$17,520 / Construction Cost – \$400K; Start – 2018 / Completed – 2018</i></p> <p>Utilities Biosolids Alternatives Evaluation – Provided County leadership with substantiated data to use as a foundation upon which to base future decisions regarding Martin County Utilities (MCU) biosolids treatment. Reviewed MCU biosolids processing data for accuracy, provided comments for clarification, coordinated comments and corrections with MCU staff, and prepared a letter report summarizing conclusions. <i>Engineering Fee - \$10,250 / Construction Cost – N/A; Start – 2019 / Completed – 2019</i></p> <p>Funding Advocacy for Utility Grants - ISS is providing funding advocacy for the Martin County Utilities Department (MCU) for the Connect-to-Protect Septic to Sewer project. This project provides for the connection of Martin County parcels to sewer collection and water distribution systems and the abandonment of existing on-site sewage disposal systems (septic systems). This project will secure grant funding and low interest Florida Department of Environmental Protection (FDEP) State Revolving Fund (SRF) Loans for projects proposed over the next ten years. The proposed project includes more than 10,000 sewer connections, 4,000 water connections, and an impact to more than 25,000 individuals. This project is anticipated to include more than \$159 million in supplemental project funding with the majority of the cost targeted to be funded by the Clean Water SRF and Drinking Water SRF programs.</p> <p>ISS organized the requests for SRF funding into three separate Requests for Inclusion that each cover three years of funding and projects. This allows Martin County the opportunity to adjust what projects are being funded, the opportunity to utilize enterprise funds when available, and the ability to secure other funding sources for future projects. To date we have identified almost \$150M in potential funding, with several million secured through the grant application / approval process.</p> <p>ISS is also assisting MCU with specialized ArcNLET model efforts related to the septic to sewer Total Nitrogen load reduction for the septic to sewer service areas for the three Capital Improvement Plan vac sewer projects. Modeling is based on complete septic tank located GIS mapping provided by MCU. This allows MCU to quantify their impacts within the septic to sewer program with the funding they are receiving, demonstrating a dollar per load reduction value which is excellent for planning and presentation purposes.</p> <p><i>Engineering Fee - \$72K / Construction Cost - N/A; Start – 2019 / Completed – 2022 (Estimated)</i></p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Infrastructure Solution Services	(2) FIRM LOCATION <i>(City and State)</i> Melbourne, Florida	(3) ROLE Prime Engineering Firm



**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION <i>(City and State)</i> ISS WATER / WASTEWATER ENGINEERING CONTINUING SERVICES + JACOBS WATER TREATMENT SYSTEM IMPROVEMENTS <i>Melbourne, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ISS: 2015 - Ongoing (Multi-Year Continuing Contract) Jacobs: 2017 - Ongoing	CONSTRUCTION <i>(If applicable)</i> ISS: Ongoing Jacobs: Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Melbourne, Florida	b. POINT OF CONTACT NAME ISS: Ralph Reigelsperger - PE, Public Works / Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (321) 608-5000
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>ISS completed the following three wastewater treatment plant projects for the City of Melbourne:</p> <p>ISS - DB Lee WRF Energy Efficiency and AWT Conversion and Improvements: Improvements at this 7.0 MGD annual average daily flow facility which included a 24 inch diameter reclaimed water transmission main from the WRF reclaimed pump station to the Citywide transmission, rehab of two deep channel influent screens, construction of a stand-alone anoxic tank for nitrogen removal, a new mixing system in flow equalization, replacing grit classifiers, replacing clarifier mechanisms, and related plant wide electrical / SCADA improvements. This project was designed and permitted by ISS personnel while working at another firm and ISS was later selected to provide engineering services during construction including providing full time project construction observation. <i>Engineering services during construction Fee - \$570K / Construction Cost - \$5.3M; Start – 2015 / Completed – 2017</i></p> <p>ISS - DB Lee and Grant Street WRF Biosolids Evaluation and Design: ISS completed the engineering evaluation of the biosolid systems for two WRFs. ISS also evaluated the most cost-effective biosolid disposition options and the related Class AA and Class B biosolid stabilization alternatives for the City on this project. ISS has commenced design of the recommended improvements including sludge thickeners, aerobic digester improvements, centrifuge dewatering, screw cake conveyors, and related electrical / SCADA improvements. As part of this project, ISS also provided design of sludge piping improvements to increase the operational flexibility at the DB Lee WRF; work included design, permitting, surveying and ESDC. <i>Engineering Fee - \$868K / Construction Cost - \$10M; Start – 2019 / Design Completed – 2021</i></p> <p>ISS - Grant Street WRF AWT Conversion and Improvements: ISS has completed the planning and evaluation and recently finished the final design contract documents for bidding, for this full WWTP conversion to advanced wastewater treatment and upgrade project at this 5.5 MGD WWTF. Project includes new and rehabilitation of piping systems, rehab of the influent pump station, headworks, existing oxidation ditch, and secondary clarifiers. To achieve effluent permitted water quality reductions without physical expansion, a new three-stage BNR oxidation ditch with two new secondary clarifiers is being designed to replace an outdated trickling filter system to achieve nitrogen and phosphorus water quality reductions. ISS assisted the City with obtaining \$6M in grant funding assistance and a low-interest loan from the State Revolving Fund program for this project. <i>Engineering Fee - \$989K / Construction Cost Estimated at - \$17.6M; Evaluation and Design Start – 2018 / Design Completed – 2021</i></p>		
		 <p>Melbourne Grant Street WRF</p>
<p>Jacobs (Prime) + ISS (Sub) - John A. Buckley Surface WTP Master Planning & Asset Management: ISS was a sub to Jacobs on this project. As part of this Master Plan, ISS developed water demand projections to understand how much water is needed in the future and where the water will be needed within the City's service area. The existing water demand information was segregated both spatially and over time and compared with the consumptive use permit and the existing hydraulic model of the potable water distribution system as requested by the City. ISS held a one-day workshop with the City's Utilities and Planning staff to discuss existing information and plans and to update the water demand projections. ISS prepared the workshop summary in a Technical Memorandum to document conclusions and action items for City water supply projections. ISS also worked on Field Condition Assessments that included the following WTP assets:</p> <ul style="list-style-type: none"> • Production wells 		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

- Production wells surface facilities
- Intake structures
- Intake pump stations
- Raw water lines
- Treatment, chemical and pump facilities
- WTP site civil structures
- Buildings and building mechanical
- Onsite storage tanks
- Remote storage tanks and booster pump facilities
- Security infrastructure
- Underground pipelines and structures within the WTPs site and remote storage sites boundaries
- Reverse Osmosis Concentrate disposal facility

ISS & Jacobs worked together on the Condition Assessment for the City of Melbourne Water System.

ISS issued a draft technical memo to the City for discussion at a review workshop attended by the City and ISS team members. ISS finalized the WTP report based on feedback from the workshop and issued that report to the City. ISS is providing GIS training and Asset management on the WTP Site. *Engineering Fee - \$200,000 / Construction Cost - TBD; Start - 2021 / Completed - 2022 (Estimated), Engineering Current*

Jacobs - RO WTP Improvement Services: The services related to the RO WTP Improvement covered several projects, as described below.

Jacobs developed membrane element specifications, provided bid support and professional services during construction of the improvements. The work included a pilot plant study to verify performance of different RO membrane elements, assess optimal scale inhibitors and a study to address the 4-log virus treatment requirement. The RO skids were originally built in the mid 90's and as part of the construction project, older skid components were replaced, including RO concentrate control valves, pressure vessel end caps, and some pressure vessels and instruments. As part of the project, Jacobs developed design modifications to the RO feed pumps, provided bid support and is currently providing professional services during construction.

The required feed pressure to the RO skids dropped significantly with the new membranes and the controls was modified to include new variable speed drives (VFDs). To accommodate this and take full benefit of the potential electricity savings, existing RO feed pumps will be de-staged and equipped with inverter duty, smaller TEFC motors. Construction is currently ongoing. As part of the new VFDs, the RO WTP site was also provided with a new transformer to replace the old transformer that was in poor condition.

Jacobs is developing the design of replacement degasifiers and off gas scrubbers. The technology of the existing RO permeate degasifiers is outdated, functions poorly, and its conditions is poor. The existing equipment needs urgent replacement. Services will also include permitting, bid support and engineering services during construction.

Construction Cost - \$TBD; Start - 2020 / Design Completed - 2021

Jacobs - SCADA Improvement Services: Work involved RO WTP planning, detail design, programming, and implementation project included planning detail design improvements for seven control panels, seven PLCs, four HMIs, and two panel mount OITs. Improvements included: Detailed control panel design, new PLCs, surge suppression, grounding, updated communication modules, uninterruptible power supply (UPS), fiber optic convertors, and complete wiring documentation. Upgrades to the SCADA server room with two new redundant configuration RAID servers, network rack, UPS power, fiber optic media converters, thin client architecture design, and four HMI monitors. Improvements were performed as a progressive design-build construction management at risk approach. Control upgrade was a retrofit at an active operational RO WTP facility requiring extensive sequencing and coordination. A similar project is now ongoing for the surface water treatment plant.

Construction Cost - \$N/A; Start - 2018 / Design Completed - 2019

Jacobs - Master Plan Services: The City of Melbourne selected Jacobs to provide evaluation (Phase 1) and master planning (Phase 2) services for their water production facilities, which include a 20 mgd surface water WTP and a 5 mgd groundwater WTP co-



Melbourne ROWTF Feed Pump System improved by Jacobs

**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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

located at one site. Treated water from both WTPs is blended, disinfected, and chemically post-treated prior to introduction into the water distribution system.

The City system serves around 180,000 customers, covers over 100 square miles, and includes several ground storage tanks, three large intercoastal crossings, one elevated storage tank, four booster pump stations, and three chlorine booster stations.

Phase 1 of the Master Plan included population projections, regulatory reviews and SCADA assessments. More importantly, this phase included a detailed condition assessment of existing assets for production facilities and remote stations, performed through visual inspections and City's personnel interviews. In some cases, additional testing and analysis were performed. The assessment covered age and condition of asset, redundancy configuration, regulatory and code compliance, health and safety aspects and environmental compliance.

Also, a process assessment was performed for each treatment step covering water quality data, vulnerability, criticality and single point of failure, process configuration and capacity analysis compared to industry standards and regulatory compliance. Findings from both assessments were combined in a large matrix, and Class 5 cost estimates were developed for each deficiency.

Subsequently, in a meeting with the City, the likelihood of failure and consequence of failure indices were discussed and determined that resulted in a risk rating per asset. The risk rating for each asset gave the City an indication of priority of rehabilitation and replacement (R&R) needs. The result of Phase 1 was a baseline Capital Investment Program (CIP) for the next 20 years covering existing assets.

Phase 2 of the Master Plan covered the 5 mgd plant expansion based on population projections, treatment technology changes based on regulatory reviews and/or process optimization suggestions by the engineer. Design and operational criteria, conceptual site layouts and Class 5 cost estimates were developed for these improvements. An outcome of this evaluation was the preference of expanding the groundwater WTP and maintaining or even downsizing the surface water WTP, due to much lower operating and whole life costs. Another outcome was the City's preference to provide a more resilient treatment system for surface water and particular the ability to treat more effectively for pathogens, CECs, PFAS, hardness and T&O compounds. During Phase 2, the baseline CIP was updated to include the future capacity needs, and regulatory and optimization requirements. The result was an integrated CIP covering both R&R and expansion/regulatory needs. This integration avoided the risk of investing capital in old assets and/or technology that may be replaced or abandoned in a 5-20 years' time frame.

Construction Cost - \$10 Million; Start – 2017 / Design Completed – Ongoing



The ISS + Jacobs Team has completed a condition assessment and developed a master plan of the City of Melbourne water system providing a road map for the next 20 years. This effort was so successful that the team was again selected to perform the design of the water system improvements.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Infrastructure Solution Services	Melbourne, Florida	Prime on Wastewater Contracts, Sub on Water
b..	Jacobs	Orlando, Florida	Prime on Water

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION <i>(City and State)</i> ENGINEERING SERVICES CONTINUING CONTRACT <i>Brevard County, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012 - Ongoing (Multi-Year Continuing Contract)	CONSTRUCTION <i>(If applicable)</i> Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Brevard County Utility Services Department (BCUSD)	b. POINT OF CONTACT NAME Matt Prendergast - Assistant Utilities Director	c. POINT OF CONTACT TELEPHONE NUMBER (321) 633-2091
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>ISS currently has three continuing services contracts with Brevard County. Below are some of the projects that we have completed through these contracts that are relevant to the services being requested.</p> <p>Indian River Isles Septic to Sewer Conversion: North, Central, & South Phases: This project was designed to serve the 400 residents (160 sewer connections) in three areas of the Indian River Isles Community. The project design includes construction of 10,000 LF of gravity sewer collection system, three lift stations, the residential sewer connections, and abandonment of the septic tanks. There are brackish water canals in the community directly connected to the Indian River Lagoon, therefore ISS was able to assist the County with securing funding for this project through the SOIRL and FDEP 319h Grant Programs.</p> <p>ISS provided all the engineering surveying, aerial drone survey work, the subsurface locates, completion of all of the engineering design including the hydraulic modeling, development of all plans and specs, and accomplished FDEP and FDOT permitting. ISS also provided construction procurement and ESDC for this contract. ISS completed the georeferenced aerial drone survey work and preliminary engineering for connecting the homes within Indian River Isles from septic systems to a new central sewer collection system. The three phases were designed as follows:</p> <ul style="list-style-type: none"> • The Phase 1 Project is in the South Area of Indian River Isles and consists of a regional pump station and over 10,000 LF of master trunk force main that will tie into the Brevard County Sewer System. The master pump station will collect the flow from all 400 residents. Work includes the central gravity sewer, residential connections, and septic tank abandonment for all homes in the South Area. Two other lift stations are included in this Phase 1. • The Phase 2 Project is in the Central Area of Indian River Isles and consists of the central gravity sewer system, residential connections, and septic tank abandonment for all the homes in the Central Area. • The Phase 3 Project is in the North Area of Indian River Isles and consists of the central gravity sewer system, residential connections, and septic tank abandonment for all the homes in the North Area. <p><i>Engineering Fee - \$209K / Construction Cost - \$8.9M (Estimated); Start – 2019 / Completion – 2022 (Estimated)</i></p> <p>West Cocoa Sewer System Improvements: Phases 1, 2, & 3: As the prime engineering firm on this project, ISS was responsible for all the engineering surveying, subsurface locates, completion of all the engineering design including the hydraulic modeling, all plans and specs, and FDEP and FDOT permitting. This is a five-phase project. Phase 1 project has been bid and the construction for this phase has commenced. The five phases were designed as:</p> <ul style="list-style-type: none"> • Phase 1 (Key Improvements) project consisted of the master pump station with appurtenances to serve approximately 2100 sewer customers, abandonment of one large lift station and rehabilitation of a medium size lift station. The project also included replacement of approximately 1,600 LF of 8” gravity sewer and rehabilitation of eight manholes. • Phase 2 project consisted of 1 sub-regional master pump station. • Phase 3 (East of I-95) project consisted of 3 lift stations and force main, and two thousand linear feet of gravity sewer. • Phase 4 (West of I-95) project consisted of 3 lift stations and force main, and a five hundred linear feet stretch of gravity sewer. • Phase 5 project consists of a lift station at the intersection of S.R. 520/ S.R. 524, demolition of the existing lift station structures and 10” force main highway crossing. <p>ISS assisted Brevard County with identifying and securing \$10 million in funding for this project through the FDEP State Revolving Fund (SRF) Loan Program. ISS provided the bidding phase services and the construction administration on these contracts including preparation of the construction bid documents and the record drawings at project closeout. Other post-design services</p>		

**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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

included assistance with the lift station start-up for these projects. *Engineering Fee - \$821K / Construction Cost - \$10.8M; Start – 2017 / Completed – 2020*

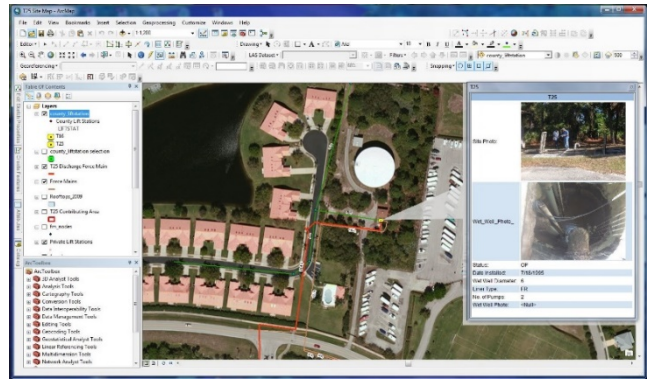
T-16 and T-25 Master Pump Station Improvements: As the prime engineering firm, ISS was responsible for all the work completed on this project including topographic and site-specific surveying, subsurface locates, completion of all the engineering design including the hydraulic modeling, GIS work on deliverables, all plans and specs, and FDEP permitting. ISS also provided bidding phase services, including preparation of the construction bid documents, and the construction administration services for the whole project, plus provided services during construction for the two master pump stations. During the evaluation and preliminary engineering phase, the project team identified and implemented an alternative solution which reduced the County's construction cost for the two master pump stations by \$1.1 million. The master pump station T-25 project involved the construction of a new 12-foot diameter precast concrete wet well, an above ground valve pad and a new manhole, 16" ductile iron pipe (DIP) influent force main, 24" PVC sanitary sewer, and 18" DIP effluent force main.



Evaluating Modifications for the Brevard County T-16 & T-25 Project

The project also included the installation of three sets of new base elbows, guide rail systems and pump discharge piping within the new wet well and the check / relocation of three recently purchased submersible pumps from the existing system to the new wet well. It also involved a new generator meeting EPA Tier 4 Air Emissions requirements; replacement of the automatic transfer switch and other electrical and I&C, site, mechanical, and structural improvements; and the demolition of the existing generator / electrical building.

The master pump station T-16 project involved the construction of a new 12-foot diameter precast concrete wet well within the dry-pit of the existing lift station, an above ground valve pad, and new 30" sanitary sewer from the existing feed manhole to the new wet well including one manhole. Installation of the 12' diameter wet well save substantial amount and time by obviating the need for substantial dewatering and excavation. The project also involved the installation of a triplex submersible pump system including a new control panel, base elbows, guide rails, etc. in the wet well and check valves, gate valves, and other piping at the valve pad. New 18" DIP force main from the proposed valve pad to the existing 18" force main was also installed along with a new generator. *Engineering Fee - \$271K / Construction Cost - \$1.77M; Start – 2015 / Completed – 2018*



Use of GIS on Collection System Rehabilitation

Lift Station Improvements: ISS has provided numerous improvements in the BCUSD Collection systems including more than 10 lift stations. ISS has successfully completed improvements to the following 10 lift stations: C-12, C-16, N-03, N-06, T-14, T-26, T-38, W-02, and W-05. *Engineering Fee - \$800K / Construction Cost – 10M ; Start – 2018 / Completed – 2020*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	Infrastructure Solution Services	Melbourne, Florida	Prime Engineering Firm

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 6
21. TITLE AND LOCATION <i>(City and State)</i> ISS WATER / WASTEWATER ENGINEERING SERVICES CONTINUING CONTRACT + JACOBS WATER TREATMENT SYSTEM IMPROVEMENTS <i>Cocoa, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ISS: 2014 - Ongoing (Multi-Year Continuing Contract) Jacobs: 2010 - Ongoing	CONSTRUCTION <i>(If applicable)</i> ISS: Ongoing Jacobs: Ongoing
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Cocoa, Florida	b. POINT OF CONTACT NAME ISS: Stockton Whitten - City Manager	c. POINT OF CONTACT TELEPHONE NUMBER (321) 433-8737
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>ISS - Streetscape Improvement Projects – As part of a downtown redevelopment and revitalization effort, the City identified specific streets to receive streetscape and related improvements. ISS and key personnel provided the following services on projects the projects listed below: water and wastewater utilities, civil, streetscape / roadway, and stormwater engineering; planning; public involvement; funding assistance; surveying; permitting; landscape architecture and irrigation design; bidding assistance; and engineering services during construction.</p> <p>The improvements on these downtown streetscape projects varied, but included water / wastewater and other utility relocations, landscaping, hardscape, street furniture, decorative lighting, brick paver sidewalks, pedestrian and roadway improvements, and stormwater systems.</p> <p>The following is a partial list of the streetscape with water and wastewater improvements projects ISS team members have supported as part of this downtown redevelopment effort:</p> <ul style="list-style-type: none"> • Delannoy-Maryland Streetscape & Lighting • Harrison Street Streetscape & Lighting • Stone Street Streetscape • US Highway 1 Streetscape Project • Whitley Bay Streetscape • Heart of Cocoa Streetscape & Lighting Projects (Factory Street, Orange Street, Lemon Street, Stone Street, St. Charles Street, Travis Street, Smith Lane, Jefferson Street) <p><i>Engineering Fee -Range: \$75K to \$200K / Construction Cost - \$950K to \$2M; Start – 2019 / Design Completed – 2021</i></p> <p>Jacobs - Water Plant Program Management and Engineer-of-Record Services <i>Contract Cost: \$ 1.6M (Original Master Plan), \$700k (Current Update); Start – 2019 / Design Completed – 2021</i></p> <ul style="list-style-type: none"> • Jacobs - Capital Improvement Plan (CIP) Program Management: The City of Cocoa engaged Jacobs to lead the delivery of the City’s \$100 million Capital Improvement Plan (CIP) as Program Manager. Jacobs provided wide range of services, including; CIP programming, cost and schedule controls, project prioritization and validation, GIS analysis, hydraulic modeling, on-call engineering support, treatment systems operational and technical support, and numerous design and evaluation efforts for new CIP projects. As part of the hydraulic modeling development, an extensive field calibration effort resulted in robust hydraulic grade line models from the Dyal WTP HSP Station through each of the City’s major transmission mains, as well as extended period simulation and water quality models. Some of the projects delivered as part of the program include; 		
<p align="center"><i>“Jacobs [formerly CH2M Hill] has provided engineering and hydrogeologic services to the City of Cocoa for over 40 years. Over the years, the teams have communicated well with city staff members, keeping us aware not only of the progress being made and status of the project and of schedule impacts that have been anticipated before delays occur. Jacobs’ project teams have been able to adapt to changes in conditions, client preferences and project objectives, developing innovative ways to adjust to the proposed changes, and devise creative measures to still meet the original schedule.”</i></p> <p align="center"><i>- Everett Wegerif, PE, Former City of Cocoa Utilities Deputy Director</i></p>		

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

groundwater filter underdrain and media replacement, emergency structural repairs to the City's only HSP Station, field verification of the finished water flow meter's calibration and development of in-service pump curves for the HSPs, surge analysis of the HSP and associated transmission/distribution system, and a preliminary design to convert the HSPs to be driven by Variable Frequency Drives (VFDs) in lieu of the existing eddy-current drive systems. Currently Jacobs is working on a project to build a redundant HSP station which will operate in parallel to the existing station, as well as two new emergency backup generators, chemical conversion, and a new redundant 54" finished water transmission main connecting to off-site transmission piping in State Road 520.

- **Jacobs - Design-Build SCADA Program Implementation:** Jacobs completed a SCADA Master Plan for the city's water utility in 2012 and subsequently delivered more than \$8 million of DB improvements as a multiyear series of projects at multiple sites. The scope of work included project management, SCADA design, configuration of 76 PLCs/ HMI systems, systems integration, network design, equipment procurement, telemetry system design, startup, testing and commissioning, energy efficiency evaluation, chemical efficiency evaluation, automated regulatory reporting, on-call emergency support, and security design. The DB approach with an integrated HMI and PLC programming team enabled continuous operations of the treatment facilities throughout the SCADA system upgrade. Cumulatively, the SCADA program implementation is currently forecasted to finish below the originally contracted amount. Innovative design solutions of the 700,000-gallon clearwell led to minimized short circuiting and optimal water quality through internal baffling. The structure's foundation is an auger-cast pile system to counter buoyancy forces, and a well point system was installed around the perimeter of the excavation for dewatering during construction. The transfer pump station building is equipped with a lightning protection system which is tied to an extensive ground grid running around the perimeter of the building and clearwell structure. The control and monitoring of the VFDs, valve actuators, and instrumentation are integrated into the overall SCADA system. A traditional design-bid-build delivery method was employed for this project.
- **Jacobs - Surface Water Clearwell And Transfer Pump Station:** Jacobs provided design, permitting, and engineering services for a new surface water clearwell and transfer pump station. This recently completed \$11 million project included construction of a redundant surface water clearwell to operate in parallel to the existing groundwater clearwell, a new 24-MGD transfer pump station, three vertical turbine pumps equipped with Variable Speed Drives, a 36" discharge header, an influent diversion valve vault with automated 36" ball valves, and a new 36" yard piping system connecting to existing pipe ranging in size from 36" to 48". The new pump station is configured to supply backwash water to the onsite elevated tank or operate as direct backwash pumping system.
- **Jacobs - Chemical Conversion Project (Ongoing):** Jacobs have just recently completed the permitting and design of the chemical conversion project. This project is currently in construction. This project includes the conversion from chlorine gas to liquid sodium hypochlorite, expansion of existing Calflo facilities and new state-of-the-art polymer and ammonium sulfate storage and feed systems. As part of the project, improvements will be made to the process control system allowing better control and monitoring of chemical feed systems. As part of this project, we will be adding a pH and alkaline correction system to enable optimization of finished water based on nitrification conditions in the distribution system. Currently, we are also performing a corrosion control system which will further optimize finished chemistry based on findings during a distribution system assessment. *Construction Cost - \$TBD; Start – 2019 / Design Completed – 2020*



One of projects ongoing is the refurbishment of lime softening dual-media filters. The Leopold underdrains were failing, and the filter media had to be replaced. The work is currently being performed successfully one filter at a time.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Infrastructure Solution Services	(2) FIRM LOCATION (City and State) Melbourne, Florida	(3) ROLE Prime Engineering Firm
b..	(1) FIRM NAME Jacobs	(2) FIRM LOCATION (City and State) Orlando, Florida	(3) ROLE Water System Program Manager

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 7	
21. TITLE AND LOCATION <i>(City and State)</i> GENERAL PROFESSIONAL ARCHITECTURAL / ENGINEERING SERVICES <i>Boynton Beach, Florida</i>	22. YEAR COMPLETED		CONSTRUCTION <i>(If applicable)</i> Various
	PROFESSIONAL SERVICES Ongoing (Multi-Year Continuing Contract)		
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Boynton Beach, Florida	b. POINT OF CONTACT NAME Joseph Paterniti PE, Utility Director	c. POINT OF CONTACT TELEPHONE NUMBER (561) 742-6423	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>Jacobs began our relationship with the City of Boynton Beach in 1988, and we have completed more than 100 major engineering, environmental, and architectural projects for the City. As part of our WTP and well field services, we designed and constructed the first aquifer storage and recovery (ASR) well in Southeast Florida. The nanofiltration WTP, designed and constructed by Jacobs was the first major WTP in Palm Beach County designed for compliance with the wellhead protection ordinance. Under the current Hydrogeologic and Engineering Services Contract, Jacobs has delivered multiple projects in collaboration with the City's Utilities Department, including injection well operation permit renewals, ASR permit renewals, mechanical integrity tests (MITs), and several groundwater studies at the City's closed municipal landfill. Currently, Jacobs is also performing a pilot study to improve pre-treatment conditions for the nanofiltration WTP and to verify performance of different membrane combinations.</p> <p>Phase IV West Water Treatment Plant Improvements: To provide a more reliable and safer water treatment plant, the City of Boynton Beach, Florida, selected Jacobs to design a second stand-by electrical generator that can service the entire plant in the event of a hurricane, and a sodium hypochlorite on-site generation system to replace their gaseous chlorine system. Because of recent growth, the plant sits extremely close to single-family residential homes and removing the gaseous chlorine system was needed to provide a safer environment for them, as well as the plant staff.</p> <p>The project included the following:</p> <ul style="list-style-type: none"> • Replacement of four membrane feed pumps. • Modifications to Nanofiltration Membrane Train Nos. 4-6 to match existing Train Nos. 1-3. • Demolition of gaseous chlorine system and scrubber. • New 600-lb/day sodium hypochlorite on-site generation and feed system. • New package stand-by power generator. • New 5,000-gallon diesel fuel storage tank. • New high service feed pump. • Computer-based plant control system modifications. <p>In all, 12 new membrane pressure vessels were provided with 468 membrane elements in each of the first stage pressure vessels, 180 membrane elements in the second stage pressure vessels, and one new cartridge filter. The new membrane elements were designed to produce 1.45 MGD of permeate for each membrane skid. Jacobs also provided construction services for the project as the plant had to maintain full production throughout construction.</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Jacobs	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Prime Engineering Firm



Improvements included New Nanofiltration membrane modules

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION <i>(City and State)</i> PROFESSIONAL ENGINEERING SERVICES <i>Deerfield Beach, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011 - Ongoing (Multi-Year Continuing Contract)	CONSTRUCTION <i>(If applicable)</i> 2020
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Deerfield Beach, Florida	b. POINT OF CONTACT NAME Joshua Niemann, Superintendent	c. POINT OF CONTACT TELEPHONE NUMBER (954) 480-4369
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>Services provided include a reuse feasibility study, a financial rate study, and a groundwater rule assessment. During construction of WTP improvements our team provided decommissioning of the East Water Treatment Plant, and injection well operational permitting. This range of projects has given the team the opportunity to develop a comprehensive understanding of the City of Deerfield Beach water treatment facilities.</p> <p>Services provided over the past 10 years include:</p> <ul style="list-style-type: none"> • Reuse feasibility and financial rate studies • Groundwater rule (4-log) assessment and design • Services during construction during decommissioning of the East WTP • Injection well operational permitting and annual reports (2013-2020) • Water treatment plant operations support • Disinfection improvements design • Kingfisher Canal Water Quality Study • West Water Treatment Plan fouling investigation and concentrate disposal improvements evaluation • Injection Well Rehabilitation and Mechanical Integrity Testing (MIT) planning, oversight and reporting • High service pump MCC replacement design • West wellfield testing results and rehabilitation • New parts facility design <p>This range of projects has given Jacobs the opportunity to develop an understanding of the City's facilities, which we look forward to building on in the future.</p>		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Jacobs	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida
		(3) ROLE Prime Engineering Firm




WTP operations support



Our team has developed a comprehensive understanding of the City's WTP facilities.

**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION <i>(City and State)</i> PROGRAM MANAGEMENT AND WATER MASTER PLANNING <i>West Palm Beach, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008 – 2015 - 2017 (Multi-Year Continuing Contract)	CONSTRUCTION <i>(If applicable)</i> 2019
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of West Palm Beach, Florida	b. POINT OF CONTACT NAME Poonam Kalkat, PhD Utility Director	c. POINT OF CONTACT TELEPHONE NUMBER (516) 822-2200
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>The City of West Palm Beach selected Jacobs to provide program management services during the planning, design, permitting, and construction of improvements to all aspects of the City's water supply, treatment, and distribution utility systems.</p> <p>The City's capital program was driven and prioritized by Consent Order mandates. Several risks were identified at the City's Water Treatment Plant that had to be addressed while the long-term solution was being evaluated and studied by consultants. As such, the Program's complexity was greatly increased due to the need to maintain a surface water supply during drought conditions, maintain full plant operations during construction, and the need to automate the 47 MGD plant without compromising any specific process.</p> <p>During this multi-year contract, Jacobs was responsible for planning and coordinating improvements to the City's water utility system, as well as the overall program management of the City's consultants and contractors implementing the projects resulting from the Program.</p> <p>During the planning phase of the work, Jacobs was responsible for coordinating information to/from eight consultants, six annual contractors, three regulatory agencies, four City departments, the Citizen's Water Task Force, the Mayor, and the City Commission. Additionally, Jacobs provided operational oversight/support of the City's water utility system throughout the planning, design and construction of these improvements.</p> <p>Our team performed a Value Engineering (VE) study effort, focused on reviewing the preliminary design for the City's 47 MGD conventional surface WTP and the proposed improvements. The proposed preliminary design replaced the existing treatment process and provided new facilities including a new raw water meter, Magnetic Ion Exchange (MIEX®) Contactors, ultrafiltration (UF) Membrane filters and an administration building, Membrane Washwater Recovery System, retrofit of existing gravity filters for Granular Activated Carbon (GAC) Absorbers, a new chlorine contact tank, and site civil, piping, electrical, and instrumentation improvements. The proposed treatment process had been developed over several years of testing and evaluation, and as a result, the value engineerin team was directed to focus on improving the selected treatment process and to not generate alternates that would propose a change to the selected treatment process.</p> <p>Jacobs and the City staff generated 90 VE alternates and 46 design suggestions during the VE workshop. The VE Team developed 42 alternates targeted at improving life cycle cost, providing improved performance, reliability, quality, and safety, and enhancing the overall project and project delivery to minimize risk.</p> <p>Jacobs is proud to work with the City on various engineering projects including optimizing treatment processes, PCCP water distribution main emergency repair readiness, design and construction services for the City's finished water meter vault, and hydraulic modeling for the City's Water Utility Master Plan Update.</p>		
		 <p><i>Jacobs worked closely with WPB staff to maintain WTP operations during construction.</i></p>

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

These projects show a small but characteristic range of Jacobs capabilities: local staff led these projects, coordinating daily with City staff, while pulling in the support of national level experts for water treatment, conveyance and distribution piping, and hydraulic modeling.

The City benefited from the team's industry experience with how utilities share spare segments of pipe for emergency repairs, bringing City staff in contact with peers at other utilities, and developing the associated plans, specifications and contract documents.

The team brought the City our experience with UV light disinfection from around the country, helping the City select the best value equipment and the most efficient and environmentally friendly water disinfection design, and helped the City meet its goal of practicing 100% recycling of water process streams by designing a cost-effective treatment process for filter backwash and thickener overflow water, routing the treated water back into the water treatment facility as source water rather than losing it as wastewater to the East Central Regional Water Reclamation Facility.

This familiarity makes its current calibration and updates efficient, saving the City time and money.



Jacobs helped the City meet its goal of practicing 100% recycling of water process streams.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	Jacobs	West Palm Beach, Florida	Prime Engineering Firm

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION <i>(City and State)</i> FLORIDA SOLAR POWER FARMS <i>Various Locations in Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017 - Ongoing	CONSTRUCTION <i>(If applicable)</i> Various
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Florida Power & Light Company (FPL)	b. POINT OF CONTACT NAME Claudine Alexander, P.E. - Engineering and Construction	c. POINT OF CONTACT TELEPHONE NUMBER (561) 694-6308
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>Jacobs is the engineer for the site civil design and permitting of solar energy sites throughout Florida totaling almost 900 MW of output. The following is a list of the Solar Energy projects that Jacobs has designed for Florida Power and Light Company since 2017:</p> <ul style="list-style-type: none"> • Okeechobee – Okeechobee County • Fort Drum – Okeechobee County • Cavendish – Okeechobee County • Rodeo – Desoto County • Cattle Ranch – Desoto County • Immokalee – Collier County • Blue Heron – Hendry County • Ghost – Hendry County • Sawgrass – Hendry County • Silver Palm – Palm Beach County • Discovery - Brevard County • Grove – Indian River County <p>Jacobs prepared the site civil construction plans and the Stormwater Management report used for FDEP ERP and local permit applications. Jacobs staff investigated the sites to determine drainage patterns, and peak flood stages on and off site.</p>		
		
<p><i>FPL Discovery Solar Project, Kennedy Space Center, Brevard County</i></p>		<p><i>FPL Indian River Solar Center Indian River County</i></p>
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Jacobs	(2) FIRM LOCATION <i>(City and State)</i> Orlando, Florida
		(3) ROLE Prime Engineering Firm

**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

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


<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 11	
21. TITLE AND LOCATION <i>(City and State)</i> US 1 Transit Corridor Bus Shelters <i>St. Lucie, Florida</i>	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i> 2015	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Port St. Lucie & FDOT	b. POINT OF CONTACT NAME James M. Sumislaski, P.E, Kimley-Horn and Associates, Inc.	c. POINT OF CONTACT TELEPHONE NUMBER 561-840-0823	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			
<p>The project included the design, permitting and construction of new bus shelters along the US Highway 1 Transit corridor at 16 bus stop locations identified by the Treasure Coast Regional Transit Organization in Martin and St Lucie Counties. The bus shelters were located within the City of Fort Pierce, City of Port St Lucie, City of Stuart, Martin County and St Lucie County. The bus shelters consisted of a Reverse Barrel Vault Roof, over a reinforced concrete mat foundation pad along with associated concrete sidewalks, boarding and alighting areas, seating benches, bike racks, trash receptacles, and map displays</p> <p>RADISE provided Geotechnical Engineering services including field exploration/testing and laboratory testing.</p> <p>The field exploration to support the project included thirty-two (32) SPT borings near the proposed bus stop improvements. The soil samples obtained from the borings were visually classified in the laboratory, and representative soil samples were subjected to laboratory index testing.</p> <p>Provided a Geotechnical Engineering Services Report to summarize the field exploration and laboratory testing results and present our evaluation and design recommendations. The report described the field exploration and laboratory testing performed, presented the data obtained, and a provided geotechnical evaluation, which included site preparation and foundation design recommendations.</p> <p>Fee: \$30,000</p>			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME RADISE International, LLC	(2) FIRM LOCATION <i>(City and State)</i> Riviera Beach, Florida	(3) ROLE Geotechnical Engineering and Materials Testing Services



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 12
21. TITLE AND LOCATION <i>(City and State)</i> Port St. Lucie Substation – 2300 Bayshore Boulevard, St. Lucie, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2016
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Florida Power & Light Company (FPL)	b. POINT OF CONTACT NAME Raymond Garcia, P.E.; Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 561-904-3710
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>The proposed substation site included large (600,000 pound) electrical transformers with associated appurtenances (breaker, switches, buses, pull-off poles, etc.), in addition to a prefabricated relay vault building. The proposed transformers were supported on deep foundations and the appurtenances such as the as the relay vault were supported on shallow foundations or monolithic slab/mat foundations. The proposed pull-off poles and others features subjected to high lateral/overturning loads were direct buried or supported on large diameter reinforced concrete pier foundations (caissons).</p> <p>RADISE provided Geotechnical Engineering services including field exploration/testing and laboratory testing to obtain general subsurface soil information so that recommendations can be provided for site preparation procedures, foundations, and other geotechnical aspects of the project.</p> <p>The field exploration to support the project included the performance of SPT borings near the proposed site. The soil samples obtained from the borings were visually classified in the laboratory, and representative soil samples were subjected to laboratory index testing.</p> <p>RADISE provided a Geotechnical Engineering Services Report to summarize the field exploration and laboratory testing results, and present our evaluation and design recommendations.</p> <p>Fee: \$25,000</p>		
		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME RADISE International, LC	(2) FIRM LOCATION <i>(City and State)</i> Riviera Beach, Florida
		(3) ROLE Geotechnical Exploration and Laboratory Testing

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 13	
21. TITLE AND LOCATION <i>(City and State)</i> Pineda Causeway Water Main Brevard County, Florida	22. YEAR COMPLETED		
	PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> 2022	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER City of Melbourne & City of Cocoa	b. POINT OF CONTACT NAME Ralph Reigelsperger	c. POINT OF CONTACT TELEPHONE NUMBER (321) 608-5000	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> The cities of Melbourne and Cocoa will install 20,000 linear feet of 16-inch water main via open cut, jack and bore, and horizontal directional drill on the south side of Pineda Causeway in the Indian and Banana Rivers. Atlantic Environmental delineated all wetlands abutting roadway, completed submerged aquatic resources surveys, and listed species surveys. Permits were acquired and mitigation provided for both FDEP and USACE requirements. Construction cost: \$20M.			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Atlantic Environmental of Florida, LLC	(2) FIRM LOCATION <i>(City and State)</i> Melbourne, Florida	(3) ROLE Environmental Consultant



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 14
21. TITLE AND LOCATION <i>(City and State)</i> St. Johns Heritage Parkway Palm Bay, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> 2020
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Palm Bay	b. POINT OF CONTACT NAME Suzanne Sherman	c. POINT OF CONTACT TELEPHONE NUMBER (321) 952-3413
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		
<p>Palm Bay constructed a 1.5-mile portion of the St. Johns Heritage Parkway from Babcock Street to the new interchange at I-95. Atlantic Environmental conducted all wetland delineations and listed species surveys for this roadway, provided mitigation and obtained permits allowing wetland impacts through SJRWMD and USACE, relocated the resident gopher tortoises, and acquired the Biological Opinion for Florida scrub-jay impacts. Construction cost: \$10M.</p>		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Atlantic Environmental of Florida, LLC	(2) FIRM LOCATION <i>(City and State)</i> Melbourne, Florida
		(3) ROLE Environmental Consultant



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 15
21. TITLE AND LOCATION <i>(City and State)</i> Diverging Diamond Interchange at Viera Boulevard <i>Brevard County, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> 2020-2021
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Florida Department of Transportation (FDOT) & Brevard County, Florida	b. POINT OF CONTACT NAME Jeanette Scott, Brevard County Public Works	c. POINT OF CONTACT TELEPHONE NUMBER (321) 305-7423
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> New FDOT diverging diamond interchange at I-95 and Viera Boulevard, Brevard County. Our scope of work was to provide landscape design and specifications for the new interchange, assistance with bid package preparation and final inspections following completion of the work. Project amount: \$700,000.		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Susan Hall landscape Architecture, Inc	(2) FIRM LOCATION <i>(City and State)</i> Melbourne, Florida
		(3) ROLE Landscape Architecture

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

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

<i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 16
21. TITLE AND LOCATION <i>(City and State)</i> Northrop Grumman Melbourne Campus Planning <i>Melbourne, FL</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018-2021	CONSTRUCTION <i>(If applicable)</i> 2020-2021
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Northrop Grumman Corporation	b. POINT OF CONTACT NAME Kevin Mills, Facilities Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 310-930-2311
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>64 Acre campus-wide site master landscape and irrigation planning for a new corporate campus located in Melbourne, Florida. Project cost: 2.3 million dollars for landscape and irrigation.</p> <p>Our scope of work required on-going coordination with civil design for the construction of the overall campus including main entrances, multiple buildings, and campus planning with walkways, extensive parking, signage and outdoor amenities.</p>		
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Susan Hall landscape Architecture, Inc	(2) FIRM LOCATION <i>(City and State)</i> Melbourne, Florida
		(3) ROLE Landscape Architecture

ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
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 "Examples 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
Tom Vill, PE* (ISS)	Project Manager and Senior Water / Wastewater Engineer	X	X	X	X	X	X				
Brian Stahl, PE* (ISS)	Principal-in-Charge and Quality Control / Quality Assurance QA/QC	X	X	X	X	X	X				
Mario Loaiza, PE, F.ASCE* (Jacobs)	SME Advisory Board Lead							X	X	X	
Kiran Kulkarni, PE* (ISS)	Senior Water / Wastewater Engineer	X	X		X	X					
Clayton McCormack, PE* (ISS)	Senior Wastewater Treatment Engineer	X	X	X	X	X					
Stephen Burwinkel, PE* (ISS)	Senior Water / Wastewater Engineer – Hydraulics / Modeling / GIS	X	X	X	X	X	X				
Robert Van Vonderen, PE* (ISS)	Senior Water / Wastewater Engineer		X			X	X				
Rafael Vazquez-Burney, PE* (Jacobs)	Treated Effluent / Solid Waste Leachate		X		X		X	X	X	X	
Gerardus J. Schers, PMP (Jacobs)	Senior Water Treatment Technologist		X		X		X	X	X		
David Myers, PE (ISS)	Senior Water / Wastewater Engineer	X		X	X	X					X
Marlena Trier, MS, EI (Jacobs)	Water Transmission and Distribution										X
Rudy Fernandez, PE (Jacobs)	Senior Wastewater Collection and Forcemain Engineer									X	
Gary Yocum, PE (ISS)	Senior Electrical / SCADA Engineer	X	X	X	X	X	X				
Bernie Jacobsen, PE, PMP (Jacobs)	Senior SCADA Engineer				X		X				
Tom Williams, PE (ISS)	Senior Structural Engineer	X	X		X	X	X				

29. Example Projects Keys

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	St. Lucie West Services District - Water, Sewer, and Reclaimed Water Continuing Utility Engineering Services (ISS)	6	City of Cocoa, Florida – ISS Water / Wastewater Engineering Services Continuing Contract + Jacobs Water Treatment System Improvements (ISS & Jacobs)
2	City of West Melbourne, Florida - Professional Engineering Services Continuing Contract for Utilities and Public Works (ISS & Jacobs)	7	City of Boynton Beach, Florida - General Professional Architectural / Engineering Services (Jacobs)
3	Martin County, Florida - Utility Engineering and Funding Services Continuing Contract (ISS)	8	City of Deerfield Beach, Florida - Professional Engineering Services (Jacobs)
4	City of Melbourne, Florida - ISS Water / Wastewater Engineering Continuing Services Contract + Jacobs Water Treatment System Improvements (ISS & Jacobs)	9	City of West Palm Beach, Florida - Program Management and Water Master Plan (Jacobs)
5	Brevard County Utility Services Department, Florida - Engineering Services Continuing Contract (ISS)	10	Florida Power and Light Company, Florida - Solar Power Farms (Jacobs)



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
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 "Examples 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			
Bhushan Godbole, PE <i>(Jacobs)</i>	Senior Structural Engineer													
Fariborz Zanganeh, PE <i>(ISS)</i>	Senior Stormwater Engineer	X	X		X	X	X							
Kurt Stafflinger, PLS <i>(ISS)</i>	Professional Land Surveyor	X	X		X	X	X							
David Green* <i>(Jacobs)</i>	David Green* <i>Jacobs</i>				X									
James Decker <i>(Jacobs)</i>	James Decker <i>Jacobs</i>													
Raul Alfaro, EI, ENV SP <i>(Jacobs)</i>	Raul Alfaro, EI, ENV SP								X	X	X			
David White* <i>(ISS)</i>	David White* <i>ISS</i>		X		X	X	X							
David Scott, PE <i>(Jacobs)</i>	David Scott, PE <i>Jacobs</i>											X	X	
Sirpa Hall, PE, ENV SP <i>(Jacobs)</i>	SME Advisory Board - Program Management									X				
Jason Bird, CFM <i>(Jacobs)</i>	Climate Change Resiliency													
Angela Giuliano, PG <i>(Jacobs)</i>	Hydrogeology								X	X				

29. Example Projects Keys

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	St. Lucie West Services District - Water, Sewer, and Reclaimed Water Continuing Utility Engineering Services (ISS)	6	City of Cocoa, Florida – ISS Water / Wastewater Engineering Services Continuing Contract + Jacobs Water Treatment System Improvements (ISS & Jacobs)
2	City of West Melbourne, Florida - Professional Engineering Services Continuing Contract for Utilities and Public Works (ISS & Jacobs)	7	City of Boynton Beach, Florida - General Professional Architectural / Engineering Services (Jacobs)
3	Martin County, Florida - Utility Engineering and Funding Services Continuing Contract (ISS)	8	City of Deerfield Beach, Florida - Professional Engineering Services (Jacobs)
4	City of Melbourne, Florida - ISS Water / Wastewater Engineering Continuing Services Contract + Jacobs Water Treatment System Improvements (ISS & Jacobs)	9	City of West Palm Beach, Florida - Program Management and Water Master Plan (Jacobs)
5	Brevard County Utility Services Department, Florida - Engineering Services Continuing Contract (ISS)	10	Florida Power and Light Company, Florida - Solar Power Farms (Jacobs)



**ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
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 "Examples Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role)													
		11	12	13	14	15	16								
Tom Mullin, PE <i>(Radise)</i>	Chief Geotechnical Engineer	X	X												
Andrew Nixon, PE <i>(Radise)</i>	Senior Geotechnical Engineer	X	X												
Jon Shepherd <i>(Atlantic)</i>	Environmental Consultant			X	X										
David Purkerson <i>(Atlantic)</i>	Environmental Consultant			X	X										
Susan Hall, RLA, LEED AP <i>(Susan Hall)</i>	Principal Landscape Architect					X	X								
Megan Magwire <i>(Susan Hall)</i>	Project Manager					X	X								

29. Example Projects Keys

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
11	City of Port St. Lucie, Florida & Florida Department of Transportation (FDOT) - US 1 Transit Corridor Bus Shelters	16	Northrop Grumman – Melbourne Campus Planning
12	Florida Power & Light Company (FPL) - Port St. Lucie Substation, 2300 Bayshore Boulevard		
13	City of Melbourne & City of Cocoa, Florida - Pineda Causeway Water Main		
14	City of Palm Bay, Florida - St. Johns Heritage Parkway		
15	Florida Department of Transportation (FDOT) & Brevard County, Florida - Diverging Diamond Interchange at Viera Boulevard		



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

INTRODUCTION TO THE TEAM CONSULTANT FIRMS

INFRASTRUCTURE SOLUTION SERVICES

Role on this Contract:

Prime Engineering Firm

Responsible Office Location:

Headquarters Office – 7175 Murrell Road, Melbourne, FL 32940

Firm Overview: Infrastructure Solution Services (ISS) provides comprehensive professional engineering services to Florida municipalities including the full spectrum of water / wastewater engineering design, permitting, construction, and operational start-up services, and we are committed to positively impacting the critical infrastructure of the communities we serve. We specialize in delivering innovative, state-of-the art design and construction solutions for a wide array of projects in various infrastructure disciplines that local governments engage regularly, with a heavy focus on water supply, treatment, storage, pumping, transmission and distribution systems; and on wastewater collection, lift station pumping, force main transmission, treatment, effluent disposal, and biosolids management expertise. ISS provides the the full spectrum of water and wastewater system related engineering capabilities as requested by the City of Port St. Lucie, and because we serve local governments throughout Florida we provide these in-house services successfully for our clients.

ISS brings the specialized expertise of experienced water and wastewater systems engineers, construction management personnel, and operational start-up professionals with high-level specialized degrees and training plus 20-30+ years of hands-on experience in the water / wastewater industry. Our highly qualified team of senior water and wastewater system engineers, including structural and electrical / I&C engineers, is based out of the ISS headquarters office in Brevard County just an hour from the City and is currently supporting similar water and wastewater projects in St. Lucie County for St. Lucie West Services District (SLWSD) and just south in Martin County.

ISS team members have been involved with the engineering design of hundreds of water / wastewater systems in Florida over the past 30+ years ranging from small piping rehabilitation and upgrade projects to leading the design of similar ROWTF and Advanced Waste Treatment Facility projects. As a firm, ISS is focused on the engineering of water and wastewater systems with approximately 80% of our work involving water resources projects. ISS is proud of its track record of excellence and has had \$0 claims since the formation of the firm in 2012.



**INFRASTRUCTURE
SOLUTION SERVICES**

ISS SNAPSHOT

- Core Values: High-Quality, Integrity, On-Time / In-Budget, Innovative, Trust, Reliability.
- Strong resume of providing professional Water/Wastewater engineering services to government entities throughout Florida.
- Founded in 2012 – The firm now has over 30 staff **members** in three offices in Brevard, Sarasota, and Bay Counties in Florida.
- 30-year relationship working together for ISS key staff.
- Comprehensive In-House Professional Engineering Service Capabilities include Planning, Funding Assistance, Design, Permitting, Bidding, through Construction, and Start-up.
- Public Infrastructure Firm: Focused on Water / Wastewater, including experts in the water supply, treatment, storage, pumping, transmission, and distribution, and the wastewater collection, lift stations, treatment, effluent discharge, and biosolids.



JACOBS ENGINEERING

Role on this Contract:

Subconsultant Engineering Firm

Responsible Office Location:

3300 PGA Boulevard, Suite 780, Palm Beach Gardens, FL 33410

Firm Overview: Jacobs brings more than 70 years of water/wastewater transmission and distribution experience and related utilities engineering services to the team. As Engineering News Record's #1 Design Firm for the past four years, our local experts bring proven solutions and global knowledge through our subject matter experts (SMEs) to deliver the industry's best water/wastewater solutions. Registered as a Florida corporation since 1951, Jacobs has over 55,000 employees firmwide, including approximately 460 personnel in South Florida, and nearly 4,500 professionals in Florida. We are a solutions provider and have provided engineering services to Florida for decades. This depth and breadth of expertise allows us to provide safe, efficient, constructible, operable, resilient and maintainable solutions.

Our ability to provide innovations to our clients is grounded in lessons learned from decades of experience designing, building, and operating water/wastewater facilities and related utilities engineering services. Each project we take on incorporates the efficiency and improvements gained from previous experience. This continuous drive for improvement and growth assures our clients that we will be able to address all project requirements efficiently, effectively, and creatively.

We provide the high-quality services required to plan and design improvements to any utility system need that may arise. With unparalleled expertise, we can help take projects from early planning stages to detailed design, through construction to full operation. We can guide our clients through changing regulations, aging distribution systems, security concerns, rising costs, climate change impacts and increasing public demands which pose new and complex challenges. Additionally, we have extensive expertise in providing permitting and regulatory assistance as required.

RADISE INTERNATIONAL, LLC

Role on this Contract:

Subconsultant Geotechnical Firm

Responsible Office Location:

4152 Blue Heron Boulevard, in Riviera Beach, FL

Firm Overview: RADISE International, LC (RADISE) is a premier geotechnical and materials engineering and testing firm servicing a broad spectrum of industries, and specializing in geotechnical engineering, construction materials testing, and inspection services for over 22 years. RADISE has extensive experience providing professional engineering services throughout South Florida and has continuing Geotechnical Engineering Services and Material Testing contracts with Broward, Palm Beach and Miami Dade Counties, South Florida Water Management District, Florida Department of Transportation, The School Boards of Palm Beach, Broward and Miami Dade Counties, and the Cities of West Palm Beach, Lake Worth, Greenacres, Fort Lauderdale and Miami Beach.

Our Corporate Office in Riviera Beach, FL houses our state-of-the-art laboratory that is fully equipped for the testing of soils and other construction materials. Our laboratory is accredited by the Construction Materials Engineering Council, approved by the Florida Department of Transportation and validated by the United States Army Corps of Engineers. We have offices and Certified Laboratories in Miami, Ft. Lauderdale, Tampa, and Jacksonville.



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
H. ADDITIONAL INFORMATION

RADISE holds all the required certifications and licenses from the State of Florida and Board of Professional Engineers to operate our Professional Geotechnical Engineering, Construction Inspection and Material Testing Business.

- RADISE also holds minority certifications including:
- State of Florida M/WBE
- Florida DOT DBE
- South Florida Water Management District SBE

RADISE is a committed, professional, and cost-effective service provider, dedicated to providing the highest performance and ultimate in customer service. Regardless of the scale of your project, RADISE will develop a practical approach to successfully achieve your goals on schedule and within budget. We at RADISE want to be more than just a service provider, but a Teaming partner!

ATLANTIC ENVIRONMENTAL OF FLORIDA, LLC

Role on this Contract:

Subconsultant Environmental Consulting Firm

Responsible Office Location:

657 Montreal Ave, Melbourne, FL 32935



Firm Overview: Atlantic Environmental of Florida, LLC (Atlantic) is a full-service environmental consulting firm based in Melbourne, Florida. The ecologists of Atlantic Environmental have worked with members of the development and regulatory communities within the region since 1996 and have extensive experience assisting clients through the various permitting and compliance processes at local, state, and federal levels. Atlantic has conducted thousands of site assessments, including preliminary Environmental Assessments, Environmental Impact Assessments, Phase I Environmental Site Assessments, transaction screens, wetland delineations, seagrass surveys, and listed species surveys. They have coordinated with all applicable local, state, and federal regulatory agencies to acquire the necessary environmental permits for site development, providing appropriate compensatory mitigation where required, and conducted/overseen vegetative maintenance, planting of native species, exotic species eradication, and wetland monitoring. Professionals employed by Atlantic Environmental are members of the National Association of Environmental Professionals and the Florida Association of Environmental Professionals, and have been trained in state and federal wetland delineation methodologies, prescription burning, hydric soils analysis, conservation lands management, Unified Mitigation Assessment Methodology (UMAM), and ASTM E-1527 standards.

SUSAN HALL LANDSCAPE ARCHITECT, INC.

Role on this Contract:

Subconsultant Landscape Architectue Firm

Responsible Office Location:

4425 Crooked Mile Road, Merritt Island, Florida 329525

Firm Overview: Susan Hall Landscape Architecture, Inc. specializes in creatively designed, carefully planned and meticulously detailed projects requiring creative landscape architectural solutions. Since 1984, Susan Hall Landscape Architecture has employed a working understanding of architecture, engineering, urban planning, and horticulture to create visually pleasing and environmentally-sound solutions for commercial, public spaces, and residential site development for projects throughout the east coast of Florida from the Florida Keys to Daytona Beach. The firm collaborates with design team professionals on a daily basis to provide design development, preparation of contract documents, preparation of bid documents, permitting assistance, construction observation, and coordination of project consultants.



Susan Hall, ASLA
LANDSCAPE ARCHITECTURE



FIRM'S OVERALL EXPERIENCE SPECIFIC TO THIS RFQ

In addition to the specific water and wastewater distribution and transmission experience demonstrated in Tab 4, the ISS + Jacobs Team also offers the value-adding capabilities, experience, and expertise described in this section.

LOCAL EXPERIENCE IN ST. LUCIE COUNTY & SURROUNDING AREAS

Both ISS and Jacobs are interested in building a positive and productive long-term working relationship with the City of Port St. Lucie that endures into the future. While ISS, Jacobs, and our project team members are highly qualified to provide these services, we understand that we are new to the City. However, we feel strongly that we can offer fresh cost-effective solutions to maintain and improve the City's water and wastewater systems, including water supply, treatment, distribution / transmission, and wastewater collection treatment, effluent discharge, and biosolids management infrastructure. The ISS + Jacobs Team offers the City specialized water / wastewater design and professional engineering expertise to provide objective analysis and recommend new technology and solutions to improve, upgrade, and retrofit the City's existing infrastructure.

DISTINCTIVELY QUALIFIED TO SERVE THE CITY OF PORT ST. LUCIE

The ISS + Jacobs project team's extensive similar Florida water / wastewater system engineering expertise and local presence all along the Indian River Lagoon provides the City of Port St. Lucie with an exceptionally qualified and readily accessible team for this contract.

Our team's interactions and past history within St. Lucie County are outlined below:

- ISS has a water and wastewater continuing engineering contract in St. Lucie County working for the St. Lucie West Services District. (2015 – Current)
- ISS is providing similar water and wastewater system engineering and a comprehensive funding program to assist Martin County See the Reference Letter in File #4, response to Question #10).
- Jacobs (formerly also CH2M Hill) is the ENR #1 Water and Wastewater Engineering Firm in the United States. Located nearby in Palm Beach County with offices around the globe brings the City any water or wastewater capability they could possibly need.

EXTENSIVE EXPERIENCE SERVING FLORIDA LOCAL GOVERNMENT ENTITIES

Since ISS's inception in 2012 and continuing today, our focus has always been on serving local governmental clients like the City of Port St. Lucie by supporting the engineering needs on public infrastructure projects, with a heavy focus on water / wastewater system infrastructure. We understand the importance of budget stewardship and the City's obligations to provide important infrastructure projects for your community at a cost-effective price. We are committed to supporting the City's utility infrastructure efforts in a way that appropriately meets the City's growing demand. ISS's municipal experience is summarized below:

- The ISS corporate management team understands the goals, challenges, and expectations of our municipal clients, as they have collectively ***worked with more than 100 different local governmental entities and utilities in Florida*** similar to the City over the last 30 years. Our teaming partner, Jacobs has also worked for 100s of clients in Florida since 1951. Together the combined ISS + Jacobs Team, has/is working together with four local government entities over the past six years.
- ISS key personnel have been providing professional engineering services for potable water, wastewater, and reclaimed water systems to Florida local government entities and utilities for over 30 years, so we fully understand the challenges that come with maintaining growing and aging critical infrastructure with limited



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
H. ADDITIONAL INFORMATION

funds. *With more than 80% of ISS work being performed for local governments, we are adept at, and committed to helping the City of Port St. Lucie identify and apply for applicable sources of grant funding for important utility infrastructure projects.*

- ISS has provided services to local government entities across Florida through *over 40 similar continuing services contracts, and Jacobs has been a teaming partner with ISS with the successful completion of important utility infrastructure engineering task orders under four of these contracts.* The ISS + Jacobs team recognizes and understands the unique challenges that local government entities face in funding, operating, and maintaining infrastructure and we will work with the City of Port St. Lucie to identify funding priorities and assist in attaining funding programs to match the City priority needs.

ISS WATER / WASTEWATER CONTINUING SERVICES CONTRACTS

ISS is committed to supporting the City with updates to existing infrastructure systems that appropriately meet the City's growing demand. The table that follows demonstrates ISS' robust portfolio of current and past continuing contracts for water / wastewater / utilities professional engineering services.


Overview of ISS Water / Wastewater Utilities Continuing Services Contracts

Client	Nature of Contract	Years of Service
St. Lucie West Services District	Water, Sewer, and Reclaimed Water Continuing Utility Engineering Services	2015 - Current
City of West Melbourne, Florida	Water / Wastewater Engineering Continuing Services Contract	2015 - Current
City of Cocoa, Florida	Civil Engineering Services Continuing Contract (Includes Utilities Work)	2016 - Current
City of Vero Beach, Florida	Water and Sewer Continuing Engineering Services	2014 - Current
City of Palm Bay, Florida	Continuing Water and Wastewater Engineering Services	2020 - Current
City of Fellsmere, Florida	Continuing Engineering for Utilities and Public Works Projects	2016 - Current
Brevard County Natural Resources	Water Resources / Environmental Engineering Services	2020 - Current
Brevard County Utility Services	Utility Continuing Engineering Services	2012 - Current
City of Cape Canaveral, Florida	Continuing Contract for Utilities and Public Works Engineering Services	2017 - Current
NASA	Civil Engineering IDIQ Contract for NASA Facilities throughout the US	2020 - Current
City of Sarasota Utilities Department	Water and Wastewater Utility Continuing Engineering Services	2019 - Current
City of Sarasota Public Works	Right-of-Way (ROW)/Roadside - Public Works Continuing Engineering Services	2020 - Current
City of Sarasota Public Works and Small Utilities	Small Public Works and Small Utilities Continuing Engineering Services	2017 - Current
City of Punta Gorda, Florida	General Engineering Continuing Services	2018 - Current
City of North Port, Florida	Utilities Continuing Engineering Services	2020 - Current
City of Dade City Public Utilities Department	Water, Sewer, and Reclaimed Water Engineering Services Continuing Contract	2016 - Current



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART I - CONTRACT-SPECIFIC QUALIFICATIONS
H. ADDITIONAL INFORMATION

Client	Nature of Contract	Years of Service
Englewood Water District	Utility Continuing Engineering Services	2018 - Current
North Key Largo Utility Corporation	As-Needed Continuing Utility Engineering Services	2017 - Current
City of Panama City Beach Utilities Department	Major Wastewater Continuing Contract including WWTP and Large Lift Stations	2017 - Current
Bay County, Florida	Professional Engineering and Surveying Services (Utilities)	2020 - Current

I. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>	
a. SIGNATURE 	b. DATE August 16, 2021
. NAME AND TITLE Brian Stahl, PE, Managing Member	



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART II - GENERAL QUALIFICATIONS

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

ARCHITECT ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER <i>(If any)</i> eRFP Number: 20210093		
2a. FIRM (OR BRANCH OFFICE) NAME Infrastructure Solution Services, LLC				3. YEAR ESTABLISHED 2012	4. DUNS NUMBER 078567854	
2b. STREET 7175 Murrell Road				5. OWNERSHIP		
2c. CITY Melbourne				a. TYPE Corporation / LLC		
2d. STATE FL		2e. ZIP CODE 32940		b. SMALL BUSINESS STATUS SBA Certified		
6a. POINT OF CONTACT NAME AND TITLE Brian M. Stahl, PE, Managing Member				7. NAME OF FIRM (If block 2a is a branch office) N/A		
6b. TELEPHONE NUMBER (321) 622-4646		6c. E-MAIL ADDRESS BStahl@infrastructureSS.com				
8a. FORMER FIRM NAME(S) (If any) N/A				8b. YR. ESTABLISHED 2012	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 <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
08	CADD Technicians	4	2	B01	Barracks: Dormitories	1
12	Civil Engineer	6	5	B02	Bridges	1
15	Construction Inspector	3	1	C15	Construction Management	2
21	Electrical Engineer	1	1	D04	Design Build: Preparation of RFPs	1
23	Environmental Engineer	5	5	E02	Educational Facilities: Classrooms	1
28	Geodetic Surveyor	1	1	E09	Environmental Impact Studies	1
48	Project Manager	4	2	G01	Garages: Vehicle Maintenance	1
52	Sanitary Engineer	1	1	H04	Heating Ventilation A/C	1
57	Structural Engineer	1		H07	Hwys: Streets: Airfield Paving: Parking	1
58	Technician / Analyst	2	3	H09	Hospitals & Medical Facilities	1
62	Water Resources Engineer	2	1	L03	Landscape Architecture	1
				L06	Lighting/Exteriors: Street/Memorials	1
				M05	Military Design Standards	1
				R04	Recreational Facilities: Parks/Marinas	2
				S04	Sewage Collection: Treatment & Disposal	3
				S10	Surveying: Platting: Mapping: Flooding Plan	1
				S13	Stormwater Handling & Facilities	2
				T03	Traffic & Transportation Engineering	1
				W02	Water Resources: Hydrology: Ground	1
				W03	Water Supply: Treatment & Distribution	2
Total		30	22			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>				PROFESSIONAL SERVICES REVENUE INDEX NUMBER		
a. Federal Work	1	1. Less than \$100,000		6. \$2 million to less than \$5 million		
b. Non-Federal Work	2	2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million		
c. Total Work	6	3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million		
b. Non-Federal Work	2	4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million		
c. Total Work	6	5. \$1 million to less than \$2 million		10. \$50 million or greater		



ARCHITECT-ENGINEER QUALIFICATIONS - STANDARD FORM 330
PART II - GENERAL QUALIFICATIONS

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

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

a. SIGNATURE



b. DATE

August 16, 2021

c. NAME AND TITLE

Brian Stahl, PE, Managing Member



Additional categories have been provided should you choose to customize the form to better align with your specific pursuit. If you choose to replace the categories in the Part II form be sure to modify the "Other Employees" count so that the Totals remain the same.

SF330 Code	Description	Firm	Branch
001	Acoustical Engineer		
002	Administrative	6766	5
003	Aerial Photographer		
004	Aeronautical Engineer		
005	Archeologist	114	
006	Architect	929	
920	Architectural Engineer		
	Automation Engineer	51	
007	Biologist	179	
008	CADD Technician	33	
009	Cartographer	1	
010	Chemical Engineer	151	
011	Chemist	68	
012	Civil Engineer	1662	1
921	Commissioning	128	
013	Communications Engineer	202	
014	Computer Programmer	832	
904	Construction Craft	1379	
918	Construction Engineer	476	1
015	Construction Inspector	27	
016	Construction Manager	1325	1
922	Construction Supervisor	272	
923	Consultant	316	
017	Corrosion Engineer		
018	Cost Engineer/Estimator	543	
902	Designer	2566	1
924	Document Controls	363	
019	Ecologist	279	
020	Economist	141	
021	Electrical Engineer	1203	1
022	Electronics Engineer		
925	Engineering Manager		
023	Environmental Engineer	456	4
024	Environmental Scientist	815	
905	Executive Management	273	
926	Field Engineer		
025	Fire Protection Engineer	66	
026	Forensic Engineer		
027	Foundation/Geotechnical Engineer	568	
028	Geodetic Surveyor		
029	Geographic Information System Specialist	313	
030	Geologist	228	
	Hazardous Waste Specialist	7	
031	Health Facility Planner		
032	Hydraulic Engineer		
033	Hydrographic Surveyor		
927	Hydrogeologist	2	
034	Hydrologist	89	
035	Industrial Engineer		

SF330 Code	Description	Firm	Branch
036	Industrial Hygienist	2	
907	Instrumentation & Controls Engineer	491	
	Intelligence Analyst	350	
037	Interior Designer	110	
919	Intern	449	
908	IT Professional	3680	
038	Land Surveyor	164	
039	Landscape Architect	118	
940	Maritime Engineer		
040	Materials Engineer	22	
042	Mechanical Engineer	1209	
043	Mining Engineer	33	
909	Munitions Response	8	
	Not Yet Assigned	1447	
910	Nuclear Engineer	110	
044	Oceanographer		
901	Operations & Maintenance Personnel	1978	
045	Photo Interpreter	4	
046	Photogrammetrist	4	
	Pipeline Engineer	16	
929	Piping Engineer	204	
047	Planner: Urban/Regional	1052	
911	Process Engineer	612	
912	Procurement Specialist	843	
913	Program Manager	402	
915	Project Controls	976	
	Project Coordinator	235	
930	Project Engineer	2388	
048	Project Manager	4050	3
931	Project Scientist		
914	QA/QC Specialist	982	
932	Qualification/Validation Engineer	7	
933	Quantity Surveyor	185	
049	Remote Sensing Specialist		
050	Risk Assessor	16	
051	Safety/Occupational Health Engineer	486	
052	Sanitary Engineer		
053	Scheduler	12	
054	Security Specialist	529	
934	Software Engineer	207	
055	Soils Engineer		
056	Specifications Writer		
057	Structural Engineer	1713	
058	Technician/Analyst	1816	
939	Technologist	707	
935	Test Engineer	62	
059	Toxicologist		
060	Transportation Engineer	1780	
936	Tunnel Engineer		

SF330 Code	Description	Firm	Branch
	Validation Engineer	89	
061	Value Engineer		
937	Vessel Engineer		
938	Wastewater Engineer		
062	Water Resources Engineer	861	
	Total	53232	17

Exp Code	Experience Description	Revenue Index
A01	Acoustics, Noise Abatement	
A02	Aerial Photography; Airborne Data and Imagery Collection and Analysis	
A03	Agricultural Development; Grain Storage; Farm Mechanization	
A04	Air Pollution Control	
A05	Airports; Nav aids; Airport Lighting; Aircraft Fueling	
A06	Airports; Terminals and Hangars; Freight Handling	5
A07	Arctic Facilities	
A08	Animal Facilities	
A09	Anti-Terrorism/Force Protection	
A10	Asbestos Abatement	
A11	Auditoriums & Theaters	
A12	Automation; Controls; Instrumentation	
B01	Barracks; Dormitories	
B02	Bridges	
C01	Cartography	
C02	Cemeteries (Planning & Relocation)	
C03	Charting: Nautical and Aeronautical	
C04	Chemical Processing & Storage	
C05	Child Care/Development Facilities	
C06	Churches; Chapels	
C07	Coastal Engineering	
C08	Codes; Standards; Ordinances	
C09	Cold Storage; Refrigeration and Fast Freeze	
C10	Commercial Building (low rise); Shopping Centers	
C11	Community Facilities	
C12	Communications Systems; TV; Microwave	
C13	Computer Facilities; Computer Service	
C14	Conservation and Resource Management	
C15	Construction Management	7
C16	Construction Surveying	
C17	Corrosion Control; Cathodic Protection; Electrolysis	
C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	
C19	Cryogenic Facilities	
D01	Dams (Concrete; Arch)	
D02	Dams (Earth; Rock); Dikes; Levees	
D03	Desalinization (Process & Facilities)	
D04	Design-Build - Preparation of Requests for Proposals	
D05	Digital Elevation and Terrain Model Development	
D06	Digital Orthophotography	
D07	Dining Halls; Clubs; Restaurants	
D08	Dredging Studies and Design	
E01	Ecological & Archeological Investigations	
E02	Educational Facilities; Classrooms	

Exp Code	Experience Description	Revenue Index
E03	Electrical Studies and Design	
E04	Electronics	
E05	Elevators; Escalators; People-Movers	
E06	Embassies and Chanceries	
E07	Energy Conservation; New Energy Sources	
E08	Engineering Economics	
E09	Environmental Impact Studies, Assessments or Statements	
E10	Environmental and Natural Resource Mapping	
E11	Environmental Planning	
E12	Environmental Remediation	
E13	Environmental Testing and analysis	
F01	Fallout Shelters; Blast-Resistant Design	
F02	Field Houses; Gyms; Stadiums	
F03	Fire Protection	
F04	Fisheries; Fish ladders	
F05	Forensic Engineering	
F06	Forestry & Forest products	
G01	Garages; Vehicle Maintenance Facilities; Parking Decks	
G02	Gas Systems (Propane; Natural, Etc.)	
G03	Geodetic Surveying: Ground and Airborne	
G04	Geographic Information System Services: Development, Analysis, and Data Collection	
G05	Geospatial Data Conversion: Scanning, Digitizing, Compilation, Attributing, Scribing, Drafting	
G06	Graphic Design	
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	
H02	Hazardous Materials Handling and Storage	
H03	Hazardous, Toxic, Radioactive Waste Remediation	
H04	Heating; Ventilating; Air Conditioning	
H05	Health Systems Planning	
H06	Highrise; Air-Rights-Type Buildings	
H07	Highways; Streets; Airfield Paving; Parking Lots	
H08	Historical Preservation	
H09	Hospital & Medical Facilities	
H10	Hotels; Motels	
H11	Housing (Residential, Multi-Family; Apartments; Condominiums)	
H12	Hydraulics & Pneumatics	
H13	Hydrographic Surveys	
I01	Industrial Buildings; Manufacturing Plants	
I02	Industrial Processes; Quality Control	
I03	Industrial Waste Treatment	
I04	Intelligent Transportation Systems	
I05	Interior Design; Space Planning	

Exp Code	Experience Description	Revenue Index
I06	Irrigation; Drainage	
J01	Judicial and Courtroom Facilities	
L01	Laboratories; Medical Research Facilities	
L02	Land Surveying	
L03	Landscape Architecture	
L04	Libraries; Museum; Galleries	
L05	Lighting (Interior; Display; Theater, Etc.)	
L06	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	
M01	Mapping Location/ Addressing Systems	
M02	Materials Handling Systems; Conveyors; Sorters	
M03	Metallurgy	
M04	Microclimatology; Tropical Engineering	
M05	Military Design Standards	
M06	Mining & Mineralogy	
M07	Missile Facilities (Silos; Fuels; Transport)	
M08	Modular Systems Design; Pre-Fabricated Structure or Components	
N01	Naval Architecture; Off-Shore Platforms	
N02	Navigational Structure; Locks	
N03	Nuclear Facilities; Nuclear Shielding	
O01	Office Buildings; Industrial Parks	
O02	Oceanographic Engineering	
O03	Ordnance; Munitions; Special Weapons	
P01	Petroleum Exploration; Refining	
P02	Petroleum and Fuel (Storage and Distribution)	
P03	Photogrammetry	
P04	Pipelines (Cross-Country - Liquid & Gas)	
P05	Planning (Community, Regional, Areawide and State)	
P06	Planning (Site, Installation, and Project)	3
P07	Plumbing & Piping Design	
P08	Prisons & Correctional Facilities	
P09	Product, Machine Equipment Design	
P10	Pneumatic Structure, Air-Support Buildings	
P11	Postal Facilities	
P12	Power Generation, Transmission, Distribution	
P13	Public Safety Facilities	
R01	Radar; Sonar; Radio & Radar Telescopes	
R02	Radio Frequency Systems & Shieldings	
R03	Railroad; Rapid Transit	
R04	Recreation Facilities (Parks, Marinas, Etc.)	
R05	Refrigeration Plants/Systems	
R06	Rehabilitation (Buildings; Structures; Facilities)	
R07	Remote Sensing	
R08	Research Facilities	
R09	Resources Recovery; Recycling	
R10	Risk analysis	
R11	Rivers; Canals; Waterways; Flood Control	

Exp Code	Experience Description	Revenue Index
R12	Roofing	
S01	Safety Engineering; Accident Studies; OSHA Studies	
S02	Security Systems; Intruder & Smoke Detection	
S03	Seismic designs & Studies	
S04	Sewage Collection, Treatment and Disposal	5
S05	Soils & Geologic Studies; Foundations	
S06	Solar Energy Utilization	
S07	Solid Wastes; Incineration; Landfill	
S08	Special Environments; Clean Rooms, Etc.	
S09	Structural Design; Special Structures	
S10	Surveying; Platting; Mapping; Flood Plain Studies	
S11	Sustainable Design	
S12	Swimming Pools	
S13	Storm Water Handling & Facilities	
T01	Telephone Systems (Rural; Mobile; Intercom, Etc.)	
T02	Testing & Inspection Services	
T03	Traffic & Transportation Engineering	5
T04	Topographic Surveying and Mapping	
T05	Towers (Self-Supporting & Guyed Systems)	
T06	Tunnels & Subways	
U01	Unexploded Ordnance Remediation	
U02	Urban Renewals; Community Development	
U03	Utilities (Gas and Steam)	
V01	Value Analysis; Life-Cycle Costing	
W01	Warehouses & Depots	
W02	Water Resources; Hydrology; Ground Water	
W03	Water Supply; Treatment and Distribution	6
W04	Wind Tunnels; Research/Testing Facilities Design	
Z01	Zoning; Land Use Studies	

CONTACT: Mario Loaiza

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

Proj No: 2147822 / Turie T. Small Elem

PART II - GENERAL QUALIFICATIONS

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

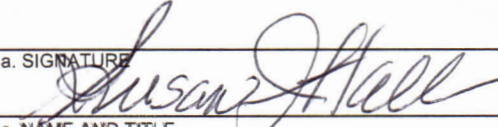
2a. FIRM (or Branch Office) NAME Susan Hall Landscape Architecture, Inc.			3. YEAR ESTABLISHED 2008	4. UNIQUE ENTITY IDENTIFIER
2b. STREET 4425 Crooked Mile Road			5. OWNERSHIP	
2c. CITY Merritt Island	2d. STATE FL	2e. ZIP CODE 32952	a. TYPE Corporation - Sub S	
6a. POINT OF CONTACT NAME AND TITLE Susan Hall, Owner			b. SMALL BUSINESS STATUS WOSB. WBE	
6b. TELEPHONE NUMBER 321-449-0790		6c. E-MAIL ADDRESS susan@hall-la.com		
7. NAME OF FIRM (If Block 2a is a Branch Office)				

8a. FORMER FIRM NAME(S) (If any) Susan Hall & Associates; Hall & Bell, Inc.; Hall, Bell, Aqui, Inc.	8b. YEAR ESTABLISHED 1982	8c. UNIQUE ENTITY IDENTIFIER
--	------------------------------	------------------------------

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administration	2		I06	Irrigation, Drainage	2
08	CADD Technician	2		L03	Landscape Architecture	4
39	Landscape Architect	1				
48	Project Manager	2				
	Other Employees					
		Total				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)	a. Federal Work	1
	b. Non-Federal Work	3
	c. Total Work	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
1. Less than \$100,000	6. \$2 million to less than \$5 million
2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE 02/12/2021
c. NAME AND TITLE Susan Hall, Owner/President	

FILE #4

SUPPLEMENTAL INFORMATION & MANDATORY DOCUMENTS

EVENT NAME:
CONTINUING ENGINEERING SERVICES FOR UTILITY PROJECTS
ERFP (EVENT) NUMBER: 20210093

SUBMITTED TO:
City of Port St. Lucie, Florida

SUBMITTAL DEADLINE:
August 16, 2021, by 3:00 PM EST

SUBMITTED BY:
Infrastructure Solution Services
7175 Murrell Road, Melbourne, FL 32940
Phone: (321) 622-4646 | Fax: (321) 256-5088
Email: bstahl@infrastructuress.com
Website: www.infrastructuress.com



FILE # 4 TABLE OF CONTENTS

FILE # 4 TABLE OF CONTENTS	ii
SUPPLEMENTAL INFORMATION TO ATTACHMENT A – MANDATORY QUESTIONS	4
Q8. Licenses and Certifications	4
Q9. Sample Insurance Certificate	12
Q16. IRS Form W-9	13
SUPPLEMENTAL INFORMATION TO ATTACHMENT B – MANDATORY SCORED QUESTIONS.....	14
Q1. Proposer’s Location.....	14
Q2. Woman/Veteran/Minority Owned Business.....	15
Q3. Executive Summary	15
Project Understanding.....	15
Summary of Project Approach Through Design And Deliverables	17
Best Value for the City	20
Q4. General Scope of Services	20
Q5. Program Management Services.....	21
ISS Keys to Success	21
Project Controls.....	22
Additional Components of the ISS Project Approach	28
Q6. Planning Support.....	30
Q7. Qualifications & Staff/Personnel.....	31
Summary of Project Team Qualifications.....	31
Q8. Design Support.....	32
Q9. Construction Engineering And Inspection Services	47
Q10. Grant & Loan Funding Support	48
Proven Expertise and Commitment to Funding Asssistance.....	48
Q11. Miscellaneous.....	50
Value-Added Services.....	50
Q12. Ability To Meet Schedule And Budget Requirements	53
Methodology for meeting the Schedule	53
Methodology for meeting the Budget	54
Proof of Meeting Schedule and Budget Requirements.....	54
REQUIRED FORMS	56
Contractor’s Questionnaire	56
Supplier Location Certification	58
Cone of Silence Form	59
Consultant’s Code of Ethics	61



E-Verify Form 63
Non-Collusion Affidavit..... 64
Drug Free Workplace Form..... 66
Truth in Negotiation Certificate 67
Acknowledgement of Addenda 1 - 4 68

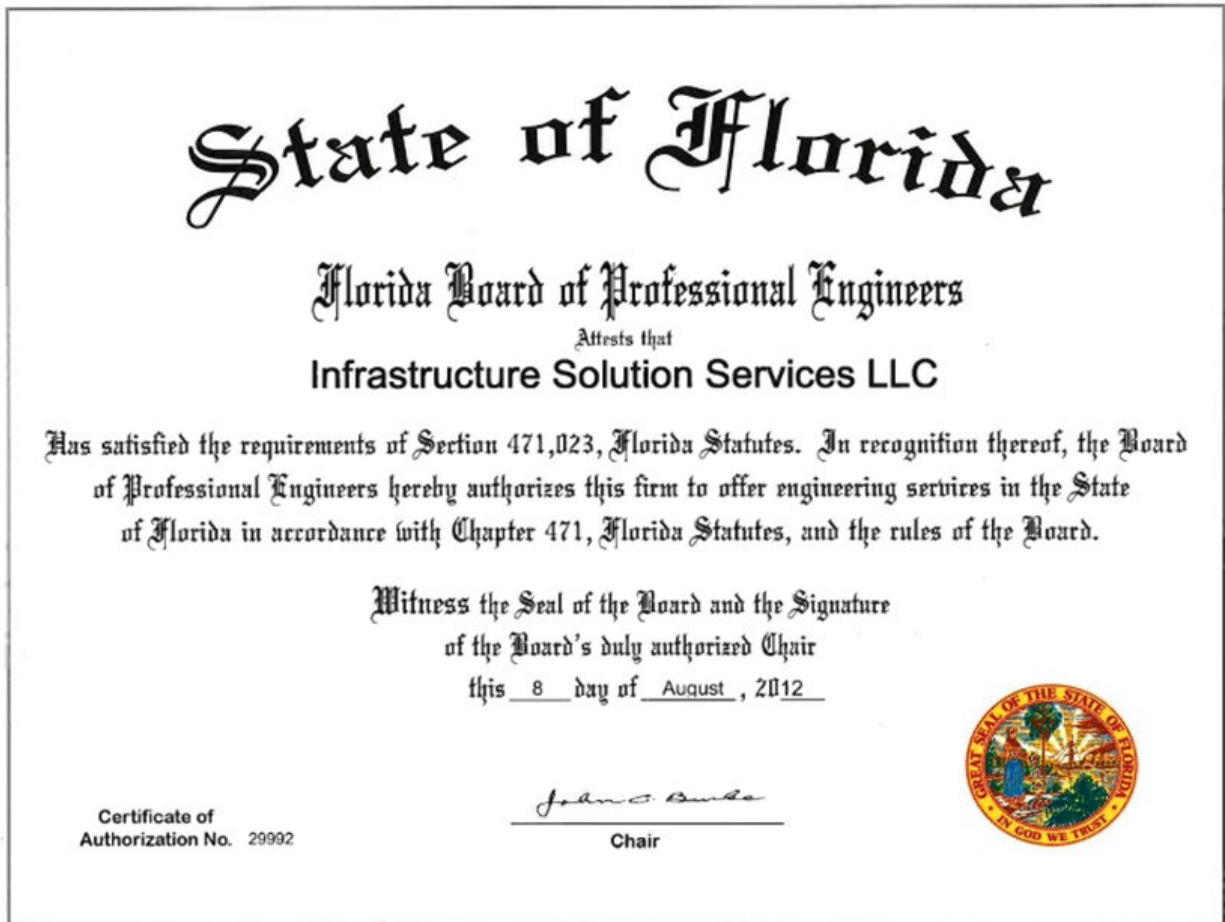


SUPPLEMENTAL INFORMATION TO ATTACHMENT A – MANDATORY QUESTIONS

Q8. LICENSES AND CERTIFICATIONS

File #1, Question 8: Submitt all licenses and certifications required to perform this project.

Please find ISS's Florida Board of Professional Engineers Certificate of Authorization below.



Please find ISS's registration with the Florida Department of Business and Professional Regulation below.

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Licensee Details

Licensee Information

Name: INFRASTRUCTURE SOLUTION SERVICES, LLC (Primary Name)
 Main Address: 7175 MURRELL ROAD
 MELBOURNE Florida 32940
 County: BREVARD
 License Mailing:
 License Location:

License Information

License Type: Registry
 Rank: Registry
 License Number: 29992
 Status: Current
 Licensure Date: 08/08/2012
 Expires:

Special Qualifications Qualification Effective

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Licensee

Name: INFRASTRUCTURE SOLUTION SERVICES, LLC License Number: 29992
 Rank: Registry License Expiration Date:
 Primary Status: Current Original License Date: 08/08/2012

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
36114	Current, Active	KULKARNI, KIRAN VYANKATESH	Registry	08/08/2012	Professional Engineer	02/28/2023

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Licensee Details

Licensee Information

Name:	JACOBS ENGINEERING GROUP INC. (Primary Name)
Main Address:	1999 BRYAN STREET DALLAS Texas 90017
License Mailing:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE
LicenseLocation:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE

License Information

License Type:	Registry
Rank:	Registry
License Number:	2822
Status:	Current
Licensure Date:	05/21/1979
Expires:	

Special Qualifications

	Qualification Effective
--	-------------------------

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Licensee

Name:	JACOBS ENGINEERING GROUP INC.	License Number:	2822
Rank:	Registry	License Expiration Date:	
Primary Status:	Current	Original License Date:	05/21/1979

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
54042	Current, Active	LAMB, MATTHEW T	Registry	11/28/2018	Professional Engineer	02/28/2023

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Licensee Details

Licensee Information	
Name:	RADISE INTERNATIONAL, L.C. (Primary Name)
Main Address:	4152 W. BLUE HERON BLVD. #1114 RIVIERA BEACH Florida 33404
County:	PALM BEACH
License Mailing:	
LicenseLocation:	

License Information	
License Type:	Registry
Rank:	Registry
License Number:	8901
Status:	Current
Licensure Date:	05/04/2001
Expires:	

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Licensee Details

Licensee Information	
Name:	HALL, SUSAN CAROLE (Primary Name) SUSAN HALL LANDSCAPE ARCHITECTURE INC (DBA Name)
Main Address:	4425 CROOKED MILE RD MERRITT ISLAND Florida 32952
County:	BREVARD
License Mailing:	
LicenseLocation:	

License Information	
License Type:	Registered Landscape Architect
Rank:	Landscape Arc
License Number:	LA0000853
Status:	Current,Active
Licensure Date:	10/15/1982
Expires:	11/30/2021

Special Qualifications	
	Qualification Effective

Alternate Names	



Please find the applicable professional licenses for all key personnel below and on the following pages.

Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

STAHL, BRIAN MICHAEL
 408 PORT ROYAL BLVD.
 SATELLITE BEACH FL 32937

LICENSE NUMBER: PE48293
 EXPIRATION DATE: FEBRUARY 28, 2023
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VILL, THOMAS MICHAEL
 129 MARTIN ST
 INDIAN HARBOUR BEACH FL 32937

LICENSE NUMBER: PE71186
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KULKARNI, KIRAN VYANKATESH
 7175 MURRELL ROAD
 MELBOURNE FL 32940

LICENSE NUMBER: PE36114
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VAN VONDEREN, ROBERT J.
 193 MONTEGITO DRIVE
 SATELLITE BEACH FL 32937

LICENSE NUMBER: PE40273
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BURWINKEL, STEPHEN PHILIP
 3040 LEVANTO DRIVE
 MELBOURNE FL 32940

LICENSE NUMBER: PE50567
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MYERS, DAVID A.
 50 BERKELEY STREET
 APT. E267
 SATELLITE BEACH FL 32937

LICENSE NUMBER: PE66483
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MCCORMACK, CLAYTON E.
2081 TWELVE OAKS DR SE
PALM BAY FL 32909

LICENSE NUMBER: PE65473
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ZANGANEH, FARIBORZ SEPEHRI
3550 CHANCELLORSVILLE AVE
MELBOURNE FL 32934

LICENSE NUMBER: PE54758
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WILLIAMS, JOHN THOMAS
5970 ADELYN ROAD
PENSACOLA FL 32504

LICENSE NUMBER: PE22282
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YOCUM, GARY A.
15 BURLINGTON AVE
ROCKLEDGE FL 32955

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LOAIZA, MARIO E.
407 WOODVIEW CIRCLE
PALM BEACH GARDENS FL 33418

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VAZQUEZ-BURNEY, RAFAEL
6911 10TH AVENUE N
ST. PETERSBURG FL 33710

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ALLADY, KUMAR ACHYUT
 8725 GRAPEVIEW BOULEVARD
 LOXAHATCHEE FL 33470

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 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE
 THE LANDSCAPE ARCHITECT BUSINESS HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

SUSAN HALL LANDSCAPE ARCHITECTURE INC
 4425 CROOKED MILE ROAD
 MERRITT ISLAND FL 32952

LICENSE NUMBER: LC26000357
EXPIRATION DATE: NOVEMBER 30, 2021
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*Society of Wetland Scientists
 Professional Certification Program, Inc*

renews the designation

Senior Professional Wetland Scientist

For

Jon H. Shepherd, MS

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel.
 Professional Wetland Scientist Number 1400 issued on 7/14/2003 and recertified on 3/16/2020.
 Due to recertify again by 7/14/2025.



*Matthew Shepherd, PWS
 President*

*Pat Frost, PWS
 Certification Renewal Chair*

*Society of Wetland Scientists
 Professional Certification Program, Inc*

renews the designation

Professional Wetland Scientist

For

David Purkerson

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel. Professional Wetland Scientist Number 1759 issued on 6/28/2007 and recertified on 6/18/2017.
 Due to recertify again by 6/28/2022.

*James G. Perry, PWS, PWS
 President*

*Pat Frost, PWS
 Certification Renewal Chair*





Authorized Gopher Tortoise Agent
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Division of Habitat and Species Conservation
Wildlife Diversity Conservation Section
620 South Meridian Street, Mail Station 2A
Tallahassee, Florida 32399-1600
(850) 921-1031

Permittee Name: JON SHEPHERD
Permittee Address: Atlantic Environmental of Florida, LLC
657 Montreal Avenue
MELBOURNE, FLORIDA 32935
UNITED STATES

Permit Number: GTA-09-00138G
Effective Date: **May 13, 2021**
Expiration Date: **June 1, 2025**

IS AUTHORIZED TO:

1. Conduct gopher tortoise surveys
2. Capture gopher tortoises using bucket traps
3. Capture gopher tortoises using hand shovel excavation of gopher tortoise burrows
4. Mark, transport, and release captured gopher tortoises at recipient sites
5. Supervise backhoe excavation of gopher tortoise burrows to capture gopher tortoises

Permittee Signature: [Signature] Date: 5/16/2021

Not valid unless signed. By signature, confirms that all information provided to issue the permit is accurate and complete, and indicates acceptance and understanding of the provisions and conditions listed below. **Any false statements or misrepresentations when applying for this permit may result in felony charges and will result in revocation of this permit.**

Authorized By: Eric Seckinger Authorized for: Eric Sutton, Executive Director

Authorizing Signature: [Signature] Date: 05/13/2021
Wildlife Diversity Conservation Section



Authorized Gopher Tortoise Agent
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Division of Habitat and Species Conservation
Wildlife Diversity Conservation Section
620 South Meridian Street, Mail Station 2A
Tallahassee, Florida 32399-1600
(850) 921-1031

Permittee Name: DAVID PURKERSON
Permittee Address: ATLANTIC ENVIRONMENTAL OF FLORIDA
657 Montreal Avenue
MELBOURNE, FLORIDA 32935
UNITED STATES

Permit Number: GTA-09-00139G
Effective Date: **May 13, 2021**
Expiration Date: **June 1, 2025**

IS AUTHORIZED TO:

1. Conduct gopher tortoise surveys
2. Capture gopher tortoises using bucket traps
3. Capture gopher tortoises using hand shovel excavation of gopher tortoise burrows
4. Mark, transport, and release captured gopher tortoises at recipient sites
5. Supervise backhoe excavation of gopher tortoise burrows to capture gopher tortoises

Permittee Signature: [Signature] Date: 5/13/21

Not valid unless signed. By signature, confirms that all information provided to issue the permit is accurate and complete, and indicates acceptance and understanding of the provisions and conditions listed below. **Any false statements or misrepresentations when applying for this permit may result in felony charges and will result in revocation of this permit.**

Authorized By: Eric Seckinger Authorized for: Eric Sutton, Executive Director


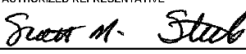
Authorizing Signature: [Signature] Date: 05/13/2021
Wildlife Diversity Conservation Section

Q9. SAMPLE INSURANCE CERTIFICATE

File #1, Question 9: Submitted a copy of their Insurance Certificate for the type and dollar amount of insurance they currently maintain.

A sample certificate of insurance is included below as proof of ISS' insurability. If awarded a contract, ISS can provide a certificate of insurance naming the City as an "additional insured", which will be maintained throughout the term of the agreement.

ISS has never had an insurance claim or legal issue in our company history.

	INFRA-1	OP ID: RAG				
CERTIFICATE OF LIABILITY INSURANCE		DATE (MMDDYYYY) 09/09/2020				
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p> <p>IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>						
PRODUCER 321-725-7000 J.W. Edens & Company Commercial Ins of Brevard, Inc 325 Fifth Avenue, Suite 108 Indialantic, FL 32903 Scott M. Steele	CONTACT NAME: Scott M. Steele PHONE (A/C, No, Ext): 321-725-7000 FAX (A/C, No): 321-725-7856 E-MAIL ADDRESS:					
INSURED Infrastructure Solutions Services LLC 7185 Murrell Rd Ste 101 Melbourne, FL 32940-8260	INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: Transportation Insurance Co 01807 INSURER B: Auto Owners Insurance Co 18988 INSURER C: Continental Casualty Company 09165 INSURER D: Argonaut Insurance Company 19801 INSURER E: INSURER F:					
COVERAGES CERTIFICATE NUMBER: REVISION NUMBER: 1						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
NSR LTR	TYPE OF INSURANCE	ADDL SUBR (NSR, WVD)	POLICY NUMBER	POLICY EFF (MMDDYYYY)	POLICY EXP (MMDDYYYY)	LIMITS
C	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X	B5085402966	09/05/2020	09/05/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS HIRED AUTOS ONLY NON-OWNED AUTOS ONLY		51-201-571-00	09/05/2020	09/05/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0		B6023643269	09/05/2020	09/30/2021	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	WC585402997	09/05/2020	09/05/2021	<input checked="" type="checkbox"/> PER-STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab		121AE0001807-01	09/07/2020	09/07/2021	Agg Limit \$ 2,000,000 Retention \$ 10,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Blanket additional insured and waiver applies to the general liability						
CERTIFICATE HOLDER				CANCELLATION		
Sample Only				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 		
ACORD 25 (2016/03)				© 1988-2015 ACORD CORPORATION. All rights reserved.		
The ACORD name and logo are registered marks of ACORD						



Q16. IRS FORM W-9

File #1, Question 16: Submit W-9

Please find ISS's completed IRS From W-9 below.

Form (Rev. October 2018) Department of the Treasury Internal Revenue Service	<h3>Request for Taxpayer Identification Number and Certification</h3> <p>▶ Go to www.irs.gov/FormW9 for instructions and the latest information.</p>	Give Form to the requester. Do not send to the IRS.																										
<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Infrastructure Solution Services, LLC</p> <p>2 Business name/disregarded entity name, if different from above</p>																												
Print or type. See Specific Instructions on page 3.	<p>3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.</p> <p> <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ S <small>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</small> <input type="checkbox"/> Other (see instructions) ▶ </p>																											
	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small></p>																											
<p>5 Address (number, street, and apt. or suite no.) See instructions. 7175 Murrell Road</p> <p>6 City, state, and ZIP code Melbourne, Florida 32940</p>		<p>Requester's name and address (optional)</p>																										
<p>7 List account number(s) here (optional)</p>																												
<p>Part I Taxpayer Identification Number (TIN)</p> <p>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 generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i>, later.</p> <p>Note: If the account is in more than one name, see the instructions for line 1. Also see <i>What Name and Number To Give the Requester</i> for guidelines on whose number to enter.</p>																												
		<p>Social security number</p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td>-</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>or</p> <p>Employer identification number</p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>4</td><td>5</td><td>-</td><td>5</td><td>6</td><td>3</td><td>1</td><td>1</td><td>9</td><td>6</td></tr> </table>											-						4	5	-	5	6	3	1	1	9	6
		-																										
4	5	-	5	6	3	1	1	9	6																			
<p>Part II Certification</p> <p>Under penalties of perjury, I certify that:</p> <ol style="list-style-type: none"> 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 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 I am a U.S. citizen or other U.S. person (defined below); and The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct. <p>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 for Part II, later.</p>																												
<p>Sign Here</p>	<p>Signature of U.S. person ▶ <i>Brian Stahl</i></p>	<p>Date ▶ August 16, 2021</p>																										
<p>General Instructions</p> <p>Section references are to the Internal Revenue Code unless otherwise noted.</p> <p>Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.</p> <p>Purpose of Form</p> <p>An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.</p> <ul style="list-style-type: none"> Form 1099-DIV (dividends, including those from stocks or mutual funds) Form 1099-MISC (various types of income, prizes, awards, or gross proceeds) Form 1099-B (stock or mutual fund sales and certain other transactions by brokers) Form 1099-S (proceeds from real estate transactions) Form 1099-K (merchant card and third party network transactions) Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition) Form 1099-C (canceled debt) Form 1099-A (acquisition or abandonment of secured property) <p>Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.</p> <p><i>If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.</i></p>																												
Cat. No. 10231X		Form W-9 (Rev. 10-2018)																										



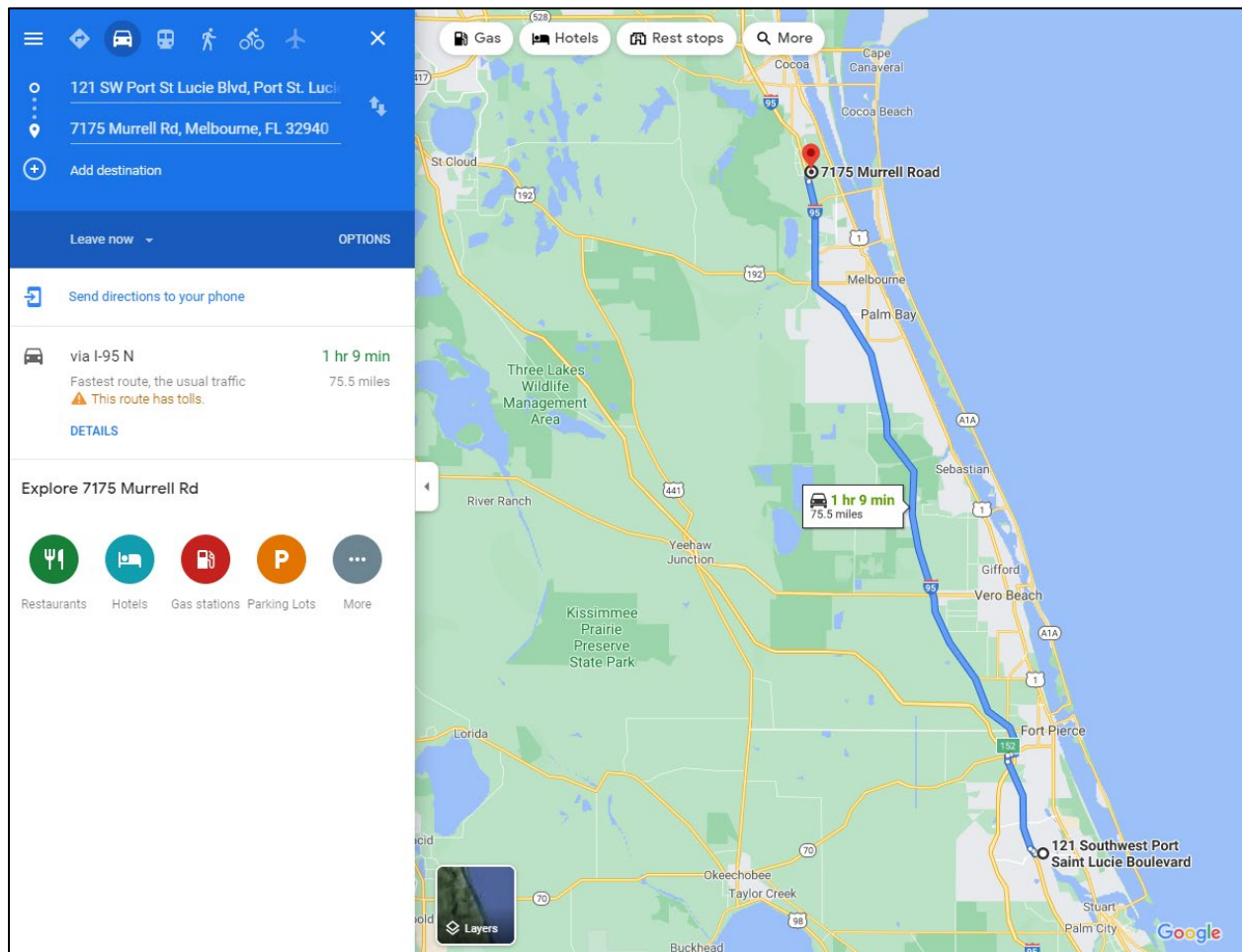
SUPPLEMENTAL INFORMATION TO ATTACHMENT B – MANDATORY SCORED QUESTIONS

Q1. PROPOSER'S LOCATION

File # 2, Question 1: Please provide all documentation needed for Location. Location shall mean a business which meets the following criteria: # of Miles from City Hall to Assigned Staff's Office location

As demonstrated in the map below, ISS's headquarters office from which the majority of the work will be performed is located ~75 miles from the City of Port St. Lucie Utilities offices.

ISS HQ Office Address: 7175 Murrell Road, Melbourne, FL 32940 | Phone: 321-622-4646



Q2. WOMAN/VETERAN/MINORITY OWNED BUSINESS

File # 2, Question 2: Does the Primary firm hold a Minority Business Certification by the Florida Department of Management Services, as described in section 8 of the document? If so, please attach.

N/A

Q3. EXECUTIVE SUMMARY

File # 2, Question 3: This section should include the Firm's overall concept of the working relationship that will be required to successfully complete this project. The proposer shall provide an executive summary narrative containing information that indicates an understanding of the overall need for and purpose of the services presented in the RFP.

PROJECT UNDERSTANDING

ISS specializes in providing engineering services for water / wastewater utility infrastructure projects to Florida municipalities through continuing services contracts. If selected to serve the City under this contract, ISS will combine our water / wastewater utilities engineering expertise with our familiarity and knowledge of relevant funding agencies and regulating authorities to provide the City with the best technical and financial solutions to its infrastructure needs.

ISS understands that our role will be to assist the City of Port St. Lucie staff on a wide variety of utility engineering assignments and to provide the full range of professional engineering services, as outlined in the RFQ, to the City for specific task orders / projects.

ISS, along with our qualified subconsultants, is prepared to commit our best to the City of Port St. Lucie. ISS is qualified and equipped to provide the full spectrum of professional engineering services that the City is seeking to procure through this continuing services contract.

ISS has teamed with Jacobs to offer an ideal selection for the City of Port St. Lucie as we bring one of Florida's finest, most cost-effective water and wastewater firms in ISS, plus the number one water and wastewater engineering design firm in the United States in Jacobs (ENR #1 for the last 4 consecutive years). For more than 30 years, the professionals at ISS have been developing the best and most innovative evaluation, modeling, design, and permitting solutions for water and wastewater treatment facilities, collection / distribution and transmission systems, effluent, and biosolids to local government utilities throughout Florida. The ISS + Jacobs Team is ideally suited to serve the City under this continuing contract for the following primary reasons.

Strong Expertise in Water / Wastewater Treatment Facilities, Collection / Distribution and Transmission Systems, Effluent, and Biosolids Projects: ISS has significant experience in the professional engineering of expansion and process optimization of water treatment and wastewater treatment facilities including the engineering design of ***more than 60 water and wastewater treatment expansion and process modification or upgrade projects throughout Florida. We have also led the engineering of all aspects of water transmission and distribution / wastewater collection systems.*** Our team has experience with all types of water piping systems including PVC, DIP, PCCP, and steel piping from 2" through more than 52" in diameter, plus directional drilling, jack and bore, and via pipe bursting methods, plus the replacement of asbestos cement pipe, galvanized pipe. On the wastewater side, our team has worked with gravity sewer, vacuum sewer, low pressure types of sewer projects and has worked with submersible lift stations, dry pit (can) stations, suction lift pump stations, and master lift stations systems throughout Florida.

The ISS + Jacobs Team has provided the evaluation, planning, design, funding, and services during construction on similar water and wastewater system projects throughout Florida for clients similar to the City including the St. Lucie West Services District Utility System, the Counties of Martin, Brevard, Leon, Bay, Sarasota, Manatee, Palm Beach, Broward, and Miami-Dade and the Cities of Vero Beach, Cocoa,



Melbourne, West Melbourne, Palm Bay, Panama City Beach, Pembroke Pines, North Key Largo, Deltona, amongst many others. We will be able to apply our entire team's innovative water / wastewater engineering expertise and technologies to assist the City in underground evaluations of piping and related infrastructure with solutions to expand, upgrade, and retrofit the City's systems. Our team is committed to a full-service approach for the City. We will work closely with City staff to secure funding to help improve the existing utility systems to meet the City's growing demand. Our team will act as a trusted advisor to the City, as an extension of City staff, providing valuable insight brought through hands-on experience with innumerable projects completed for other local governmental entities in Florida who face similar challenges as The City of Port St. Lucie.

ISS also brings in-house national level expertise to provide water supply modeling and permitting plus advanced wastewater treatment (AWT) nutrient removal effluent requirements compliant with Florida AWT level regulations. We can recommend / provide proven process designs to alleviate any risk to the City.

Understanding of the Utility Needs of The City of Port St. Lucie: ISS + Jacobs Team key personnel have specialized water and wastewater system design expertise in the State of Florida and have worked on utility systems within St. Lucie County for over 20 years. Over the past several years, both ISS and Jacobs personnel have met City staff at different times and been looking for this opportunity to submit in the hope of working on the City water and wastewater systems. We recognize the needs and challenges that the City is presented with regarding funding, operating, and maintaining your water and wastewater systems in the face of a growing community. ***The ISS + Jacobs Team can offer innovative, cost-effective solutions tapping on our Florida and National experts to maximize the life of the City's existing utility infrastructure systems and to assist you as the City expands in the best, most advantageous way possible for your water and wastewater customers.***

A Scalable Team with a Commitment to Cost Effectiveness: As a mid-sized, East Central Coast of FL based firm, ISS senior professional experts, including our principals, are regularly involved in the day-to-day tasks on projects resulting in the most cost-effective innovative solutions for the City of Port St. Lucie. In addition, through our partnership with Jacobs, the ENR #1 water and wastewater engineering services firm, our team offers access to any specialized expertise that the City may want or need into a project. ***The ISS + Jacobs team offers the City a team that can start small and can scale up as needed to meet any water / wastewater project needs.***

Additionally, the ISS + Jacobs Team is committed to helping the City identify and obtain applicable grant funding to help finance important critical infrastructure projects. Our grant and funding specialists are familiar with funding sources available in Florida and along the Indian River Lagoon (IRL) that could be used for the City's water and wastewater system projects, ***so the City can do more work by supplementing enterprise fund dollars with grant dollars. As an example, our team has helped our utility clients obtain millions of dollars in IRL grant funds and billions of dollars in WIFIA financing.***

Added Value through Water / Wastewater Operations Expertise: The ISS + Jacobs Team also offers added value through hands-on experience and knowledge from operational and program management of multiple water / wastewater systems including several in Florida (City of West Melbourne, Pembroke Pines, and North Miami Beach are nearby examples). Our operations and program management experts can collaborate on ideas and share our management tools with City staff for solutions with regards to maintenance and operability of similar utility systems, as may be desired by the City. Additionally, the ISS + Jacobs Team has a multitude of experience working together, for similar projects including the Cities of Melbourne, Pembroke Pines, and Cocoa. Our team has performed numerous condition assessment projects for utilities across the state, most recently completing a full force main condition assessment for the City of Fort Lauderdale and a water system assessment jointly with ISS at the City of Melbourne.

Local Presence and Accessible Project Team: ISS + Jacobs Team project personnel reside and work in St. Lucie County and surrounding areas, so the City and this continuing services contract are very important to our team. On a daily basis, we work on water and wastewater projects in St. Lucie County (at St. Lucie West) and just south in Martin County. Plus, being a part of the St. Lucie community allows us to



understand important issues and provide better service as we live, work, and play in the local area! ISS + Jacobs Team key personnel are in St. Lucie County, readily accessible to the City, and able to respond quickly to the City's needs.

SUMMARY OF PROJECT APPROACH THROUGH DESIGN AND DELIVERABLES

While specific deliverables will vary by the requirements of each task order, utility project type, level of complexity, and number of disciplines, the critical elements of the ISS Project Approach do not. The specific deliverables for a project assignment are identified in the Project Management Plan (PMP) along with all of the disciplines required. In addition, the ISS project team will focus on identifying the evaluation or design decisions (i.e., long term maintenance considerations, equipment selections, land acquisition needs, levels of service, etc.) that must be made at each phase of each specific water and wastewater project. As part of each deliverable, we prepare a technical memorandum or report that presents the design, supporting calculations, and identifies critical planning and design items for review and confirmation by the department during their review. This ensures that the critical decisions are made as needed throughout the project and prevents costly changes and delays.

When ISS is requested to undertake a design engineering task – the following approach would apply. The approach ISS takes for design projects is to progress through the overall design in several phases or steps that may be required for any individual work assignment / task order. For smaller City assignments this approach can be reduced to match the City desired budget. These major phases may include:

- Pre-Design (Field Data Collection) Services
- Basis of Design Report
- Innovative Brainstorming Process
- Preliminary Design/Development Phase (Estimated 30%)
- Intermediate Design Phase (60% and 90% design)
- Final Design Phase (100%)
- Bidding and Negotiation Phase
- Construction Phase
- Start-up Assistance, if needed

Based on our experience, ISS' approach to providing high-quality services during each phase is described in the subsections that follow.

Pre-Design Phase (Field Data Collection)

It is critical that we collect good background information on the project area. During the Pre-Design phase, we hire a subsurface locate company such as GPRS to locate utilities in the project area using ground penetrating radar technology. We also perform in house georeferenced aerial drone photogrammetry of the proposed route or site. The aerial photogrammetry is performed using a drone with ground control. Based on this photogrammetry, preliminary contours and a terrain model can be created. The aerial photogrammetry locates all visible features and City and franchise utility locate information. We supplement this information with available GIS information for environmental, soils, and other information that could impact the proposed project. We also review applicable permitting requirements for the proposed work. We identify and review any as-built or record drawings of existing infrastructure. This work allows us to develop more accurate conceptual water and wastewater plans, flush out issues, and develop the best working solution that meets the City's goals and objectives for your public works projects. ISS maintains two available survey crews that really understand utility system engineering projects and the ability to get accurate survey data for design projects.

Basis of Design Report

During Basis of Design phase, it is critical that we gain input from City staff regarding the existing conditions, needs, and operational or public issues surrounding the project. This assists in the development of the best alternatives for the project. We develop weighted evaluation criteria with input from City staff to rank multiple alternatives as an aid to selecting a preferred alternative. Where



appropriate, public meetings can also be held to gain public and stakeholder input. When evaluating issues, we review to identify constructability issues and ensure project phasing that keeps facilities operational through construction. Our analysis of alternatives includes both construction costs and 20-year life-cycle worth analysis to ensure that long-term operations and maintenance costs are appropriately considered.

Innovative Brainstorming Process

The ISS Innovative Brainstorming Process can be implemented as part of our project approach to ensure that all potential options are considered and that final decisions are vetted and represent the best solutions for our clients, in turn fostering flexible and creative designs from an innovative approach that has continuously resulted in the best and most cost-effective engineering solutions for our clients.

ISS has adopted an innovative brainstorming process that we use on challenging or larger engineering projects for our clients. This innovative approach occurs at approximately the 10 percent point in the design phase of the project. This brainstorming process will allow the ISS project team, along with The City of Port St. Lucie staff, to utilize the expertise of our senior staff and the sharpest minds on the project team, to develop the best way to solve the City's utility system challenges. The process includes the development of "innovative" options that are discussed with the project team and City staff. These options are analyzed and vetted by the project team with feedback from the City staff. Only after the discussion with the City and their approval of the proposed solution would the ISS project team proceed in implementing the approved solution into design. This relatively small upfront effort has resulted in some of the most innovative and cost-effective solutions resulting in extremely satisfied clients.

ISS has successfully employed this innovative brainstorming process on larger or more complex projects like treatment plant or large water/wastewater system projects as a method to bring added value to a project. During the preliminary design stage, ISS conducts a half day workshop process that engages the project team, other ISS specialists, and key City staff to become familiar with a project and allow a sharing of ideas/concepts. This allows time for the engineering team to digest or flush out the ideas brought up at the brainstorming session and bring them back to the larger group before being implemented. A recent example where the ISS team used our experience and "outside of the box" thinking to bring value to a client was on the Brevard County Lift Station L-16 and L-25 project. These two lift stations were very large regional wet well / dry well configured stations with the motors up top. The existing station needed significant rehabilitation due to excessive corrosion in the wet wells, but more importantly, the existing stations were significantly oversized. For example, Lift Station T-25 was a triplex station with more than three times the pumping capacity that was required. The ISS project team was able to propose a design approach to Brevard County resulting in the abandonment of the oversized station and construction of a much smaller conventional lift station wet well with duplex submersible pumps. The right sizing of these two stations resulted in a savings to Brevard County of over \$1,000,000 along with additional operations and maintenance cost savings.

COLLABORATIVE BRAINSTORMING FOR THE BEST SOLUTIONS

ISS's innovative brainstorming process allows the City and the ISS project team to develop, discuss, vet, and approve innovative and cost-effective solutions prior to implementation.

Preliminary Design Phase (30%)

During the Preliminary Design Phase, we perform preliminary design calculations or modeling for for the sizing, operating pressure ratings, and the best materials of construction for each water and wastewater system project based on the specific conditions and application. . Specific design information shall be used in the preliminary plans.

The ISS project team prepares preliminary plans and profiles or layouts of the proposed improvements using the data collected by drone, field work, and record drawings. Specific work is performed to identify



any land acquisition needs for the project. Identifying land acquisition needs at this stage is critical to begin that process and maintain project schedule.

The Preliminary Design Submittal is provided to the City for review, including, modeling and calculations, materials of construction, preliminary cost estimate, and plans. A technical memo accompanies the submittal identifying critical design issues, specific items requiring decisions or confirmation from the City, and identifying key issues for the 60% design submittal. A preliminary estimate of project costs is usually prepared at the 30% design stage and updated at each milestone submittal.

Intermediate Design Phase (60% and 90%)

The Intermediate Design Phase builds upon the work performed in the Preliminary Design Phase and incorporates all City comments. Design submittals are made at 60%, 90%, and Final Design.

Modeling and design calculations are updated based on changes from the Preliminary Design Phase review and comments. Sizing, pressure ratings, and materials of construction are updated based on changes from the Preliminary Design Phase. Detailed topographic and boundary survey is performed on the project area and supplements the aerial photogrammetry. Boundary survey is prepared for any land acquisition needs. We perform utility soft-dig locates at all critical City and franchise utility crossings. The geotechnical investigation is completed. The 60% design plans and profiles of the proposed improvements are prepared using the updated survey information. The design is advanced with full detailing of systems, crossings, and regulatory requirements.

The 60% Design Submittal is provided to the City for review, including updated modeling and calculations, materials of construction and sizing, cost estimate, and plans. The technical memo is updated and accompanies the submittal identifying critical design issues, specific items requiring decisions or confirmation from the City, and identifying key issues for the 90% design submittal.

The 90% Design Phase builds upon the work performed in the 60% Design Phase and incorporates all City comments. Based on the 60% review, additional value engineering may be performed. The key additions in the 90% Design Phase are the following:

Draft Contract Documents including the City Front-End documents and ISS-prepared Technical Specifications are prepared. Also, bid alternates, owner supplied materials, etc. are identified and addressed in the Draft Contract Documents.

Finally, Permit Applications for all required outside agency permits are completely prepared during this phase and submitted. Complete permit submittals based on Regulatory insights and City inputs results in very few permit RAIs and quicker receipt of the permit for the City.

Final Design Phase (100%)

The Final Design Phase builds upon the work performed in the 90% Design Phase and incorporates all City comments. At the completion of the Final Design Phase the bid documents are submitted to the City for bidding purposes. As part of this phase, all permits have been received and all land acquisition has been completed.

Bidding and Negotiation Phase

The ISS project team will assist the City in the bidding of the projects by attending pre-bid meetings, preparing responses to bidder's questions, reviewing bids, and preparing a recommendation of award. It is critical in the Bidding Phase to provide clarity in response to bidder's questions. This ensures bidders have little ambiguity about what is required and provides the most competitive bids for the City. Following receipt of bids, a detailed review of the bids and reference check of the low bidder is essential.



Construction Phase

ISS has extensive experience providing engineering services during the construction of local government public works projects in Florida. The ISS project team can provide the following engineering services during construction:

- Project Coordination and Monthly Progress Meetings
- Pay Application Reviews
- Replies to RFIs
- Construction Contract Administration
- Construction Engineering Services, Including Engineer of Record Project Oversight
- Resident Project Representative Services
- Quality Assurance / Quality Control
- Project Closeout and Project Certification

COMMITTED THROUGH SUCCESSFUL START-UP

We believe the involvement of ISS senior staff, the entire design team, and the ISS project manager doesn't end until the facility improvements are successfully tested/started-up to your satisfaction and your staff is ready and willing to accept the "keys".

At ISS, we believe that quality engineering services during construction are critical to a project's success. The extent of ISS' services during construction depends on the scope and complexity of the project and the City's goals and needs for each specific project. The ISS project team includes engineers and resident inspectors with a successful track-record of providing quality engineering services during construction for large, complex, multi-disciplined projects. With our local presence, our entire team and discipline leads can quickly mobilize on-site to address any issue that arises.

BEST VALUE FOR THE CITY

One of ISS's greatest strengths is our understanding of the technical and financial challenges local governments in Florida face in meeting their infrastructure needs. Developing cost-effective solutions, recommendations, and designs for addressing the City's needs is the most important goal of our work. The key to creating the greatest value to the City requires the following key elements for each project:

- Working with City staff to develop a clear understanding of the specific challenges that must be addressed in the project
- Develop clear goals and project requirements that each design must satisfy to address the project needs
- Draw upon the full breadth of knowledge and experience of the ISS and Jacobs Team and City team in identifying and evaluating - "brainstorming" - potential solutions for each project
- Fully evaluate each potential solution or alternative with City staff looking at both technical and nontechnical issues, including a cost/benefit analysis, before the team selects a preferred alternative to be implemented in the design phase
- Our experience shows that by clearly identifying the problem, establishing the requirements for a successful solution, and then maximizing the knowledge and experience applied to finding solution, we consistently develop cost-effective solutions to our client's problems.

Q4. GENERAL SCOPE OF SERVICES

File # 2, Question 4: Provide a general description of the types of services your firm is capable of providing.

ISS was founded in 2012 with the goal of building a full-service Florida-based firm to deliver an exemplary level of water and wastewater infrastructure engineering services (**we are water and wastewater experts, focusing daily on innovative solutions**) throughout the Southeastern United States, and the firm has been providing comprehensive professional services to Florida governmental entities and agencies ever since. We recognize and understand the unique challenges that local government entities face in funding, operating, and maintaining infrastructure to meet the changing demands of growing



communities and we partner with our clients to identify priorities and overcome challenges through innovative approach processes.

At ISS, we are committed to making a positive difference in critical infrastructure for the communities we serve. Because many local government infrastructure projects require a distinctive blend of primary services, ISS offers the full spectrum of engineering capabilities, all in-house. We specialize in providing innovative, state-of-the art design and construction solutions for a wide array of projects in various infrastructure disciplines including a focus on water resources and specifically those needed by local governments on their water and sewer system, including all engineering services and funding support that local governments engage regularly.

Infrastructure Engineering Disciplines

- Water Supply/Treatment/ Storage/Pumping/ Transmission Distribution
- Wastewater Collection/ Treatment/ Effluent Discharge/ Biosolids
- Other Utilities
- Septic-to-Sewer
- Stormwater Management
- Parks & Recreation
- Marine / Waterfront
- Streetscape / Redevelopment
- Roadways / Transportation
- Disaster Recovery

In-House Professional Services

- Engineering Design
- Civil, Electrical / I&C, & Structural Engineering
- Grant Funding Identification & Assistance
- Capital Investment Planning Assistance
- Analysis / Studies / Reports / Evaluations
- GIS Services / 3-D / Hydraulic & Groundwater Modeling
- Surveying & Mapping / Georeferenced Aerial Photogrammetry
- Field Studies & Data Collection
- Regulatory Compliance & Permitting
- Cost Estimating & Budget Preparation
- Bidding Services
- Construction Engineering and Inspection
- Public Involvement

Q5. PROGRAM MANAGEMENT SERVICES

File # 2, Question 5: Provide a description of the program management services your firm can provide.

ISS KEYS TO SUCCESS

ISS believes that successful management of a project begins with the assignment of a seasoned and experienced project manager. **Mr. Thomas Vill, PE** has more than 30 years of experience successfully managing and providing technical leadership for municipal utility projects throughout Florida. As project manager, Mr. Vill will be responsible for managing and ensuring quality services in all project components and accountability for all team members and subconsultants.

The following four key elements are the focus of ISS's typical approach to delivering successful projects for our clients:



- **Develop an understanding of the project by listening to the client.** At the start of any project assigned to ISS under this continuing services contract, the project manager and key ISS staff will meet with City staff to gain a full understanding of the City's goals and objectives for the proposed project. Through discussions with key project stakeholders, ISS will gather a general understanding of the project scope, budget, and critical issues that must be fully vetted to gain insight into the specific scope of the project. Through this early work, ISS can be in the best position to develop a well-developed project task order and project fee.
- **Develop a sound plan for completing the project and commit the most qualified resources to execute that plan.** The ISS project manager prepares a detailed Project Management Plan (PMP) and schedule based on the scope of the project. The PMP provides a detailed plan for executing the project and identifies the man-hour and resource needs for the project. The PMP is subject to an independent QA/QC review to ensure the approach is appropriate to complete the full scope of the project and ensure the necessary resources are committed to meet the project schedule. This detailed plan allows the project manager to actively monitor progress and ensure all team members are completing their work on time and budget and assists in maintaining accountability.
- **Actively monitor and control each phase of the project.** To maintain accountability, ISS project schedules and resource requirements are updated and reviewed on a weekly basis to ensure projects are completed on schedule. These budget tracking and schedule control methods allow ISS project managers to evaluate the status of their project quickly and make the needed adjustments to meet or beat our client's schedules and budgets.
- **Timely and clear communication.** The final key to successful management of the project team is timely and clear communication to the City and other project stakeholders. This commitment to communication is critical throughout all steps in the project approach. Our communication begins with our initial meeting and the development of our written scope of work, schedule, and budget requirements. ISS will monitor project progress and hold regularly scheduled project status and coordination meetings at an interval deemed appropriate by the City, plus provide regular status reports to the City. Our project manager will be responsible for reporting and coordinating our efforts with the City on a regular basis.

PROJECT CONTROLS

ISS will implement a series of project controls to ensure the success of any work assigned to our firm under this continuing services contract. The project controls that sustain the proven ISS project approach include:

- Project Scope Planning
- Coordination and Monitoring of Project Schedule & Cost (*addressed in response to Question 12*)
- Risk Management
- Project Communications
- Quality Control & Assurance
- Resource Management





Project Scope Planning

For each assignment, the critical first step is to thoroughly understand the project background; existing conditions; future needs; work completed to date; and the City's scope, budget, and schedule expectations and to provide the City a task order that meets those requirements. Our internal project specific Project Management Plan (PMP) breaks down the work that must be completed to identify and plan each deliverable associated with the project. The PMP is developed with input from all the necessary discipline leads with a particular focus on the information they need at each phase of the project, regulatory requirements, and critical design / project items that must be addressed at each phase. Based on the project plan, the resource and manpower needs of the project are identified and committed.

Risk Management

The ISS project approach is focused on risk management to protect our clients, including the City of Port St. Lucie. Our project team will take proactive steps to minimize risk to the City. Some of our risk management practices include:

- Commitment of experienced and qualified senior professionals
- Commitment of senior independent QA/QC professionals upfront and at every deliverable
- Contract document reviews by qualified senior construction managers identifying risk issues
- Immediate communication and resolution of any issues to alleviate the item before it becomes a problem or change order
- Commitment by our team to proactively check that safety practices of the Construction Contractor are being implemented daily

ISS is a local government service firm and is not a land development firm, so we will always have the best interest of the City in mind. The ISS project team is committed to the City of Port St. Lucie, and you can count on us to avoid the conflicts that can occur when firms who work for developers or contractors on land development efforts have an interest in making sure that project work is always pushed forward in a manner that doesn't always consider the best interests of the City. The ISS Team is committed to The City of Port St. Lucie in our approach.

Project Communications

Effective communication is key to the success of every project and is one of the main pillars of the ISS proven project approach as well as one of our corporate core values. We understand that a successful



professional relationship is developed through listening to our clients identify their unique concerns and priorities, and by offering intelligent, relevant guidance and solutions that help them meet their goals in the most efficient manner possible. ISS makes honest, transparent, and timely communication a priority upon which we build every client relationship.

ISS is committed to helping the City of Port St. Lucie develop and maintain technically sound and financially smart infrastructure systems. Our approach to achieving this goal includes serving as a **professional services advisor** to the City while also helping in designing and constructing essential City infrastructure. As a professional services advisor, the ISS project team will go beyond traditional design engineering services to help the City's departments advance the quality of life for its residents and visitors. We will routinely dedicate time beyond our direct assignments to meet with City staff. We will listen to staff at all levels to develop a comprehensive understanding of goals, needs, challenges, and deficiencies. When we see concerns, we will quickly point them out to the designated City staff before they become a future problem. When we see opportunities to enhance infrastructure in a cost-effective manner, we will present those opportunities to the City for consideration. Our goal is to maintain a positive and productive relationship with the City, and as such, we will never let potential fees interfere with doing what is right for the City. ISS will communicate with the City and its constituents (to include residents, contractors, developers, and other engineers) in a variety of ways – depending on what works best for the City and the groups involved.

Main Point of Contact: The main point of contact for the City will be our project manager, **Mr. Tom Vill PE**. Mr. Vill has 30 years of working with local municipal government clients and has a thorough understanding of the goals, priorities, and challenges that clients like the City typically face.

Back-Up Communication: To the extent that Mr. Vill is on vacation or otherwise unavailable, managing firm principal, Mr. Brian Stahl, PE, will be available to assist the City. Mr. Stahl also has over 30 years of experience supporting similar contracts and projects as those being solicited by the City.

Contract Management Communications: Following a continuing contract award, Mr. Vill and Mr. Stahl will engage appropriate City staff for an introductory meeting in order to gain additional insight how ISS might serve the City of Port St. Lucie on this contract, as well as a clear understanding of the City's specific expectations for ISS.

Project Management Communication: Effective communication is critical throughout all steps in the execution of a project.

- **Project Initiation:** Upon award of a task order for services to the City, Mr. Vill and key ISS staff will meet with City staff to gain a full understanding of the City's goals and objectives for the proposed project. Through discussions with key City stakeholders, ISS will gather a clear understanding of the project scope, budget, and critical issues that must be fully vetted to gain insight into the project. This early work will enable ISS to develop a well-planned project scope of work, schedule, cost estimate, and fee.
- **Documentation:** ISS will prepare a detailed Project Management Plan (PMP) and schedule based on the scope of the project. The PMP provides a detailed plan for executing the project and identifies the man-hour and resource needs for the project. The PMP is subject to an independent QA/QC review to ensure the approach is appropriate to complete the full scope of the project and ensure the necessary resources are committed to meet the project schedule. This detailed plan allows the project manager to actively monitor progress and ensure all team members are completing their work on time and budget and assists in maintaining accountability.
- **City Engagement:** ISS will engage the City for review and feedback at all milestones during the project and will ensure incorporation of all comments on the deliverables.



- **Project Reporting:** ISS will monitor project progress and provide status updates to the City. The project team will be prepared to communicate with the City in a variety of formats as deemed most appropriate by the City ranging from weekly or monthly progress reports, weekly or monthly progress meetings or conference calls, attendance at City Council meetings, or by other means necessary as dictated by City preferences or specific task order requirements.
- **Construction Services Communications:** If required, during the bidding and construction phases of a project, ISS is committed to clear and rapid turnaround of responses to questions, RFIs, and change orders if needed. Our project manager will coordinate responses with backup support from specialized experts on the ISS Team as required.
- **Public-Facing Communications:** ISS can augment City staff by having the project manager, supported by the principal-in-charge, conduct public involvement meetings for projects. These meetings generally focus on informing the public of a project, describing benefits, describing construction impacts and mitigation measures, providing the public with the overall project budget and schedule, and in some cases seeking the public's input on specific project components. It is our experience however, that interacting with the public doesn't stop at the conclusion of a public meeting but continues throughout the life of a project. ISS has used multiple mediums to communicate with the public and to seek their attendance at local public meetings. Some of these have included door hangers; yard signs; project trifold handouts; project websites; HOA newsletters, websites, and/or notice boards in common locations (club houses, community pools, mailboxes, etc.); site specific social media outlets (Next Door); City web sites and social media sites; and announcements at City council meetings.
- **Quality Control / Senior Communications:** Periodically, our firm's managing principal and contract principal in charge, Mr. Stahl, will check in with the City to ensure that ISS is meeting the City's expectations and goals.



*Brian Stahl, PE (Principal in Charge)
presenting at the Leon County
Woodville Septic to Sewer Project
Public Meeting on May 2019*

Quality Control & Assurance

ISS has an established QA/QC Program that must be followed on every project. The process requires the commitment of our best senior staff to ensure the highest project quality. The ISS project manager will be responsible for compliance with the QA/QC Process; however, QA/QC reviews are performed and documented by an independent senior engineer. This independent review ensures a "fresh set" of experienced eyes to review the work product and judgments made for the project. The ISS QA/QC Process is integrated into all phases of the project from initial scoping through final completion. The Process involves:

- **Independent review processes by a senior engineer.** At the start of a project, a senior engineer is assigned to perform QA/QC throughout the project. **Mr. Brian Stahl, PE** will be serving this role for any Port St. Lucie projects assigned to ISS under this contract. Mr. Stahl's extensive 30+ year background and experience on utility infrastructure projects makes him well suited for this role.
- **QA/QC reviews are performed on all critical calculations, decisions, and deliverables throughout the project - not just at the time of a deliverable.** Reviewing work throughout the process is critical to the success of every project. As an example, a hydrologic and hydraulic analysis of existing stormwater conditions might be the foundation for all work and recommendations of a

drainage study. As a result, that analysis must be thoroughly reviewed and confirmed before beginning any further analysis.

- **All recommendations are reviewed with the QA/QC engineer and other senior staff who actively challenge the recommendations.** The project team must be able to defend the technical, financial, and feasibility of implementing the recommendations.
- **Plans, specifications, and bid documents are reviewed with the QA/QC engineer.** The plans, specifications, and bid documents are reviewed by the QA/QC engineer to ensure the constructability of the design and fairness and the clarity of the bid form. If needed, ISS has used independent outside consultants to perform constructability reviews and review of bid form structure to ensure fair competition on unique or highly complex bid arrangements.

Resource Management

Staffing Resources

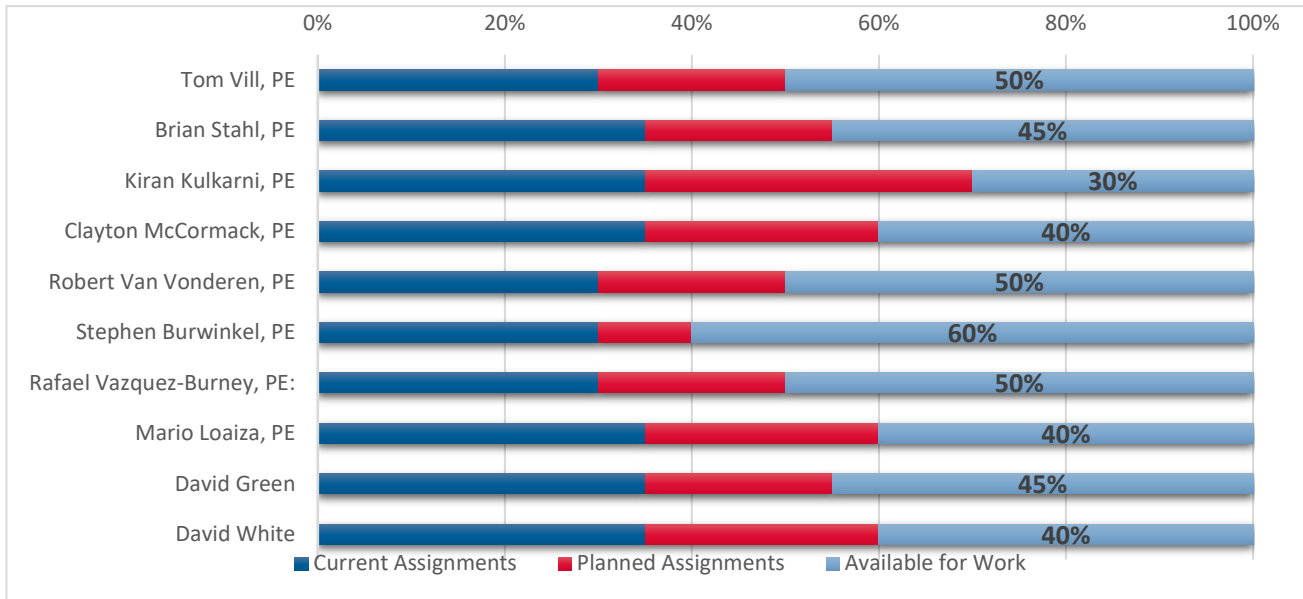
The ISS management team regularly tracks the workload of our staff to ensure that appropriate resources are assigned to every project. Personnel resources are reprioritized as necessary for the success of every project based on project deadlines, staff qualifications, and capacity. During the development of the PMP, Mr. Vill will finalize the scope and identify associated schedule, man-hours, and other resource needs for the project. This information will be reviewed, approved, and committed by ISS corporate management. As demonstrated in our organization chart, the project management team will be augmented with other dedicated project staff and subconsultants for each specific task at hand. ISS typically plans for individual projects to require a managerial requirement of 10%, a technical requirement of 85%, and an administrative staff allocation of just under 5%.

Availability and Workload: ISS and Jacobs is committed to providing the resources required by the City of Port St. Lucie to execute any projects that we are tasked to complete through this continuing engineering services contract. ISS has the staffing capacity to serve the City successfully for the duration of the contract term. The addition of the 55,000 person Jacobs firm gives the ISS Team a seemingly limitless staff level to serve the City. On a weekly basis, our senior management team carefully analyzes awarded project work with available staffing to ensure that resources are available to deliver projects on time.

The table that follows indicates the workload availability of ISS key personnel and how this City of Port St. Lucie contract will fit into our staffing capacity. This workload chart shows dark blue for current assignments and red for planned assignments. The light blue bar on the chart indicates the amount of ISS staff time available to serve the City. These percentage allocations may change over the duration of the contract as actual City task order commitments as well as other project commitments change; however, ISS is committed to providing the required resources to the City in order to provide high quality engineering services to all tasks assigned.



Workload & Availability of Key Personnel



Equipment Resources

Modeling Software Resources: Both ISS and Jacobs remain on the cutting edge of professional system modeling, drafting, and delivery methods. Our team has heavily integrated technology into its operation including products from AutoDesk, ESRI, Revit, Bentley, Biowin, WaterGEMS, SewerGEMS, ArcNLET, plus additional modeling software. ISS utilizes both AutoCAD Civil 3D 2019 and ESRI ARC MAP 10.6 and our project team will ensure that all files exchanged with the City are compliant with applicable



ISS offers in-house 3D modeling capabilities for water, wastewater, and reclaimed water systems.

City programs. Based on the specific task order requirements, the ISS + Jacobs Team will utilize all of the latest modeling, 3-D modeling software, GIS based Operations & Maintenance (O&M) Manual, and SCADA management program, to provide the City the most advantageous design solutions for the operation and maintenance of its water and wastewater system.

In-House Surveying Resources: The ISS Team Surveying Team maintains the latest advances in the surveying industry. This equipment, accompanied by some of the most committed and knowledgeable team members, will result in state of the art survey work for these City projects.

Typical surveying services provided by ISS will include the development of legal descriptions and sketches for easement and right of way acquisitions, boundary surveys, topographic surveys, construction stakeout, design surveys (including topography, utilities, trees, buildings, etc.) and record drawing surveys. These surveys shall include identifying the location of all significant subsurface conflicts and coordinating with the City for the vertical and horizontal location of those conflicts, where possible. Where City staff are unable to assist with physical locations of subsurface conflicts, then subsurface utility locates shall be completed where additional clarity is required in the surveying for the design process.



The ISS Surveying Team can provide georeferenced aerial photogrammetry associated with the surveying services provided. Drone aerials using photogrammetry work will be incorporated in the preparation of these design-based field surveys. Surveys shall pick up the project borings performed as part of a geotechnical evaluation.

Services may also include expert witness services or services in support of right of way or property acquisitions.

Georeferenced Aerial Photogrammetry through Drone: Since 2016, ISS has utilized georeferenced drone-based aerial photogrammetry to support all aspects of projects from conceptual designs through construction. ISS can generate same-day high resolution imagery, 3D models, Google Earth overlays, and topographic maps for projects of any size, including those containing hundreds of acres of project area. The information can be used to quickly:

- Develop Conceptual Designs
- Generate Topographic Contours
- Measure Cut/Fill Volumes
- Determine Flow Patterns
- Record Utility Locates
- Identify Visible Obstacles
- Monitor Construction Progress

All information is georeferenced to specified horizontal and vertical datums through the use of surveyed ground control points and powerful processing software. Typically, horizontal and vertical accuracy is to within three inches.

ADDITIONAL COMPONENTS OF THE ISS PROJECT APPROACH

Compliance with Regulatory Requirements

ISS understands how important it is for us to complete our contracted work in full compliance with the regulatory guidance from both the regulatory and funding agencies. We are committed to 100% compliance with the latest design standards and codes for all engineering design projects. Our team has worked on projects in and around the City of Port St. Lucie and St. Lucie County and we are very familiar with the applicable regional design standards. In addition to our current and previous projects with St. Lucie West Services District, our team has provided regulatory compliance solutions for numerous counties and cities throughout the State of Florida.

Since our key staff have decades of experience working in Florida, the ISS project team knows key regulators at the Florida Department of Environmental Protection (FDEP), the South Florida Water Management District (SFWMD), the Florida Department of Transportation (FDOT), and other regulatory agencies having purview. We have successfully permitted thousands of projects for local governments throughout the State. Our standard approach to all projects is to engage regulators early in the planning and design of projects to avoid costly delays and changes.

Cost Estimating

ISS fully understands that the underlying goal of any project is to provide engineering design on infrastructure that is high quality for our client and can be built within the project budget and schedule. The ISS project approach focuses on complete scoping of the work with a high level of communication to



Our ISS field data collection crew performs aerial photogrammetry to assist with in-house surveying services.



ensure that the design team has no ambiguity in scope and the construction cost target. This construction cost target will comply with the funding constraints of the City. To maintain accountability of all project team members, ISS project reviews will include communication with the client at regular phases and a comparison of the ISS design with the original scope. Cost estimates are completed for each design deliverable to make sure that the project remains within funding limits defined by the City. These project management capabilities allow project control to be reinforced throughout the design team and at all phases of the project. Our ability to continuously meet our client's scope of work and funding constraints has resulted in ISS's success on similar contracts. ISS has found that these well thought out project scope and funding management measures result in an extremely successful project for our clients and our firm.

The ISS project team fully understands that our construction cost estimates must be accurate in order for The City of Port St. Lucie to properly budget resources. In a time when construction cost estimates are varying widely due to demand for materials and labor in the Florida market, appropriate cost estimating techniques become much more critical to properly estimating a project. Estimates are also very time sensitive in today's market. As such, all estimates will be completed keeping a close eye on when construction will take place. Based on our knowledge and experience with hundreds of similar projects, we will provide a proposed construction cost estimate that is accurate and understandable. This cost estimate will consider the type of work being done and the location of that the work. We understand that the cost of installation varies depending upon the location of the installation, the availability of materials, the ability to bring heavy equipment easily to the site, and general market conditions at the time of bidding. ISS will factor into our cost estimates all of the appropriate conditions of the required coastal sustainability designs for the City of Port St. Lucie.

As the City reviews our prior projects and checks ISS references you will see that ISS consistently delivers our projects on schedule and in budget. ISS will do the same for the City of Port St. Lucie.

Value Engineering

One of the benefits to the City of bringing the ISS and Jacobs team on-board under a utility continuing services contract is that we can bring the City a fresh set of eyes and a team of seasoned professional engineers who can offer valuable insight to the City's projects.

ISS feels that establishing an appropriate planning level project budget at the time that projects are initially scoped and placed within the City's CIP program is critical to establish project budget expectations. A project can go "over budget" for any number of issues, some of which are able to be controlled by the City / engineering team and others that cannot be controlled. In either case, a project that bids over the City's budgeted amount normally requires City staff to find a source of additional funds and request budget transfers from the City Council to fund the project. City staff have normally requested the assistance of your engineering consultant to provide help preparing budgetary cost estimates for projects being placed in the CIP program. It is important for the success of any project that the most accurate information is available, and your professional engineers are consulted at the time of initial project scoping and the development of CIP project budgets.

The next opportunity to influence a project budget is during the design stage of a project. It is the project manager's responsibility to uphold the project scope - keeping the project on track without adding scope while always keeping the client updated when scope creep occurs or when a cost estimate may exceed the City's budget for the work. It is not unreasonable for the City to request its engineering consultant to update their project cost estimate at each and every milestone deliverable. In addition, the consultant should be asked to provide the City a technical basis for every unit cost used in an estimate. Furthermore, the City should expect that each cost estimate prepared and submitted to the City has been reviewed and subjected to internal scrutiny as part of a quality control process.

Project Deliverables & Document Control

While the specific deliverables vary by water and wastewater project type, level of complexity, and number of disciplines, the critical elements of the process do not. The specific deliverables are identified in the Project Management Plan along with all of the disciplines required. In addition, we focus on identifying the evaluation or design decisions (i.e., equipment selections, land acquisition needs, levels of



service, etc.) that must be made at each phase of each specific project. As part of each deliverable, we prepare a technical memorandum that presents the design, supporting calculations, and identifies critical design items for review and confirmation by the City during their review. This ensures that the critical decisions are made as needed throughout the project and prevents costly changes and delays.

The preparation of all submittals to the City, including all construction documents, will follow a similar approach to control the release of the documents to ensure the quality of the finished document. These quality procedures include clearly communicated document control practices, documents released only after the designated QA/QC review, version control and transparency on documents and drawings, and dedicated project filing system.

Q6. PLANNING SUPPORT

File # 2, Question 6: Describe the types of planning your firm can provide.

ISS specializes in providing planning services for local government entities throughout the State. ISS has professional engineers with planning training and prior certifications to assist our Clients in the planning and implementation of project needs and solutions. The ISS Professional Staff is focused on local government water / wastewater utility infrastructure projects for Florida municipalities. By providing planning services through continuing services contracts to Florida local governments, ISS has provided all of the types of planning needed by the City. In addition to the planning expertise offered by ISS, Jacobs brings planning expertise from ENR's #1 Ranked Water and Wastewater Firm. This allows the ISS and Jacobs Team to bring the planning knowledge and expertise from around Florida (ISS) and around the World (Jacobs) to the City of Port St. Lucie. Our Team can absolutely handle any and all types of planning assignments for the City.

On most of our Capital projects for water and wastewater utilities, ISS will use the expertise of the ISS and Jacobs Team senior water and wastewater engineers to complete planning services through the preparation and completion of the following:

1. Conceptual studies and feasibility studies, evaluations of solutions, present worth and cost benefit analysis evaluations
2. Master planning and modeling of utility systems, Facility plans including 20-Year Facility Plans for the SRF Program and other funding programs Plus Capital improvement assistance and field evaluation studies with strong cost estimating capabilities to assist local governments with the planning needed to develop the best Capital Improvement Programs (CIP) at the correct construction costs. This CIP work has resulted in very successful CIPs for our Clients
3. ISS will assist Port St. Lucie with the planning and identification of Funding Programs that can assist with funding the CIP needs of the City and get more projects funded and implemented in the City CIP.
4. Engineering evaluations and the analysis of alternative design concepts with cost analysis work that will get the City to the preferred alternative and best solution for implementation. ISS will summarize this planning work and prepare technical engineering reports and memorandums for the City as needed.
5. The ISS Team also implements an Innovative Brainstorming Process on large or complex projects. Previously described in detail in our response to Question 3.

The ISS Team does extremely effective water and wastewater systems planning. This upfront planning dedication of the ISS Team Senior Water and Wastewater Engineers provides our clients like the City of Port St. Lucie with the best solutions at accurate construction costs.



Q7. QUALIFICATIONS & STAFF/PERSONNEL

File # 2, Question 7: Please complete and attach Form 330 part I and II for evaluation of qualifications & staff/personnel.

The completed SF330 has been uploaded as required in the City's RFQ.

SUMMARY OF PROJECT TEAM QUALIFICATIONS

We have selected our team members for their knowledge and expertise delivering similar projects, their proven commitment to quality, and their recent project experience. The table that follows provides an overview of our project team's qualifications.

Summary of Project Team Qualifications

Name	Role	Education	Years of Exp
Tom Vill, PE* <i>ISS</i>	Project Manager and Senior Water / Wastewater Engineer	BS, Civil Engineering, Georgia Institute of Technology	32
Brian Stahl, PE* <i>ISS</i>	Principal-in-Charge and Quality Control / Quality Assurance QA/QC	MS, Environmental Engineering, Florida Institute of Tech. BS, Biological Oceanography, Florida Institute of Technology (Civil Engineering Classes) AS, Mechanical Engineering, St. Louis Comm. College	32
Mario Loaiza, PE, F.ASCE* <i>Jacobs</i>	SME Advisory Board Lead	BS, Civil Engineering, The University of Alabama	24
Kiran Kulkarni, PE * <i>ISS</i>	Senior Water / Wastewater Engineer	MS, Environmental Engineering, Tennessee Tech University BS, Civil Engineering, University of Bombay, India	40
Clayton McCormack, PE* <i>ISS</i>	Senior Wastewater Treatment Engineer	MS, Environmental Engineering, Michigan State University BA, Chemistry, Illinois Wesleyan University	26
Stephen Burwinkel, PE* <i>ISS</i>	Senior Water / Wastewater Engineer – Hydraulics / Modeling / GIS	MS, Civil Engineering, University of Central Florida BS, Environmental Engineering, University of Central Florida	22
Robert Van Vonderen, PE* <i>ISS</i>	Senior Water / Wastewater Engineer	MPA, Public Administration, Bowie State University BSCE, Civil Engineering, University of Florida	39
Rafael Vazquez-Burney, PE* <i>Jacobs</i>	Treated Effluent / Solid Waste Leachate	MCE, Civil Engineering, North Carolina State University BS, Environmental Engineering, North Carolina State University	15
Gerardus J. Schers, PMP <i>Jacobs</i>	Senior Water Treatment Technologist	MS, Civil Engineering, Delft University of Technology BS, Civil Engineering, Delft University of Technology	30
David Myers, PE <i>ISS</i>	Senior Water / Wastewater Engineer	MS, Civil Engineering, Florida Institute of Technology BS, Civil Engineering, University of Florida	17
Marlena Trier, MS, EI <i>Jacobs</i>	Water Transmission and Distribution	MS, Civil Engineering, Water Resources Engineering Specialty, Milwaukee School of Engineering BS, Civil Engineering, Milwaukee School of Engineering	5
Rudy Fernandez, PE <i>Jacobs</i>	Senior Wastewater Collection and Forcemain Engineer	BS, Engineering Princeton University	44



Name	Role	Education	Years of Exp
Gary Yocum, PE <i>ISS</i>	Senior Electrical / SCADA Engineer	BS Electrical Engineering, University of Central Florida BS, Engineering Science, Electrical Engineering, University of Louisville	35
Bernie Jacobsen, PE, PMP <i>Jacobs</i>	Senior SCADA Engineer	BS, Electrical Engineering (with Honors); AA, Engineering (with Honors), Florida Atlantic University	38
Tom Williams, PE <i>ISS</i>	Senior Structural Engineer	BS, Civil Engineering, Georgia Institute of Technology	>40
Bhushan Godbole, PE <i>Jacobs</i>	Senior Structural Engineer	MS, Structural Engineering, University of Cincinnati BS, Civil Engineering, Indian Institute of Technology	32
Fariborz Zanganeh, PE <i>ISS</i>	Senior Stormwater Engineer	MS, Water Resources, Florida Institute of Technology BS, Civil Engineering, Florida Institute of Technology	33
Kurt Stafflinger, PLS <i>ISS</i>	Professional Land Surveyor	AAS, Construction Technology at Erie Community College	40
Tom Mullin, PE <i>Radise</i>	Chief Geotechnical Engineer	MS, Geotechnical Engineering, University of Illinois BS, Civil Engineering, University of Illinois	43
Andrew Nixon, PE <i>Radise</i>	Senior Geotechnical Engineer	BS, Ocean Engineering, Florida Atlantic University	15
Jon Shepherd <i>Atlantic</i>	Environmental Consultant	BS, Biological Sciences, Florida State University MS, Ecology, Florida Tech	25
David Purkerson <i>Atlantic</i>	Environmental Consultant	BS, Biology/Marine Sciences, university of Miami MS, Conservation Biology, San Francisco State University	22
Susan Hall, RLSA <i>Susan Hall</i>	Principal Landscape Architect	BS, Landscape Architecture, Purdue University	41
David Green* <i>Jacobs</i>	Funding Assistance Specialist	MS, Economics, Portland State University BS, Agricultural and Natural Resource Economics, Oregon State University	44
James Decker <i>Jacobs</i>	Utility Asset Management	BS, Civil Engineering	19
Raul Alfaro, EI, ENV SP	Utility Engineer – Data & Security Specialist	BS, Environmental Engineering, Florida International University	5
David White* <i>ISS</i>	Senior Construction Manager	Engineering/Architecture, Brevard Community College Business, Northern Virginia Community College	>40
David Scott, PE <i>Jacobs</i>	Construction Management & Administration	BS, Agricultural and Biological Engineering, University of Florida	24
Sirpa Hall, PE, ENV SP <i>Jacobs</i>	SME Advisory Board - Program Management	Bachelor's Degree, Civil Engineering, Saimaa University	35
Jason Bird, CFM <i>Jacobs</i>	Climate Change Resiliency	Associates of Arts Degree, Central Florida Community College Course work in Civil Engineering with Construction Management focus, University of Central Florida	21
Angela Giuliano, PG <i>Jacobs</i>	Hydrogeology	MS, Geology, East Carolina University BS, Geology, Radford University AS, Science, Tidewater Community College	9

* Denotes Key Personnel

Q8. DESIGN SUPPORT



File #2, Question #8: Provide a list of at least 5 but no more than 10 projects within the last 5 years that your firm has done and describe what types of projects and services your firm provided.

In addition to the projects presented in File #3, SF330, the requested additional project information is provided in this section for the contracts listed below. Since Port St. Lucie is soliciting for a continuing services contract, we have provided similar water and wastewater continuing contracts with task orders completed that match the City's scope of services as outlined in the RFQ.

1. **City of Dade City, Florida** - Water, Wastewater, & Reclaimed Water Continuing Contract
2. **Leon County, Florida** - Woodville Wastewater Collection Continuing Contract
3. **City of Palm Bay, Florida** - Water and Sewer Continuing Contract
4. **City of Panama City Beach, Florida** - Wastewater Continuing Contract
5. **City of Vero Beach, Florida** - Water and Sewer Continuing Contract
6. **North Key Largo Utility Corporation** - Continuing Contract
7. **Seminole County, Florida** - Continuing Contract Utility Engineering
8. **City of Bonita Springs, Florida** - Water/Wastewater Utility Engineer-of-Record Services(Progressive Design-Build)
9. **City of Coral Springs, Florida** - Water Utility Engineer-of-Record Services North Springs Improvement District
10. **City of Ft. Lauderdale, Florida** - General Wastewater Consultant Professional A/E and Civil Engineering Services

WATER, SEWER, AND REUSE WATER ENGINEERING SERVICES CONTINUING CONTRACT

City of Dade City, Florida

Completion Date (Years of Service): Ongoing Continuing Contract (2016 – Current)

ISS served as the continuing engineering consultant for Dade City's water, wastewater, and reclaimed water systems. In this role, ISS key personnel have completed several projects for the City.

Tank Hill Ground Storage Tank and Booster Pump Station - Design and permitting for water system improvements at the Tank Hill Facility to include installation of a new water supply well approximately 500 feet in depth; installation of a new deep well vertical turbine pump with associated piping, appurtenances and well pad; new elevated storage tank; two new booster pumps and hydropneumatic tank; new sodium hypochlorite feed system; miscellaneous site work; and related electrical and instrumentation modifications. Project is out for bid. *Engineering Fee - \$220,000 / Construction Cost - \$3,325,580; Completed – 2022*

SR52 Water Main Relocation - Provided the professional engineering services for the design, permitting and construction administration services for the SR 52 watermain relocation. The project relocated watermain to accommodate an expansion and realignment of SR 52 by the FDOT. The project included the evaluation of the existing 12" water main, consideration of future needs, design of realignments of 21 sections of watermain, coordination with FDOT, and permitting through the FDEP. A challenging aspect of the design was the need to maintain water service to every customer throughout these phased relocations. *Engineering Fee - \$45,000 / Construction Cost - \$525,000 (estimated); Completed – End of 2021 (Estimated)*



Wastewater Collection System Capacity Analysis -

Engineering analysis of a portion of the City's wastewater collection system to determine the amount of capacity available for future development. The analysis focuses on the portion of the collection system that serves the area west of SR 52 and south of St Joe Road. *Engineering Fee - \$35,000 / Construction Cost - N/A; Completed - 2019*

Orange Valley Well and Booster Pumps: Based on the City's recently completed Water Facilities Planning efforts and to support the goal to add capacity and redundancy to the Dade City water supply system, ISS provided professional engineering services during construction on two important water distribution projects that supplied the City with a new water supply well, disinfection, and pumping of potable drinking water.

These projects were bid and constructed through separate contracts due to the specialized nature of well drilling. The first construction contract involved drilling and construction of the new well, and the second involved construction of the well pump and improvements, booster system jockey pump, and pressure control valves. Improvements were made to the well pump, the piping system, the roof structure, and associated electrical and structural modifications were made. The piping at the Orange Valley site was modified to allow the well to feed directly to the storage tank and a jockey pump and three pressure control valves were installed to create a pressure zone serving the Orange Valley area.

ISS provided procurement assistance including preparation of bid documents; conduct of project meetings; review of pay applications and grant disbursement requests; review of shop drawings, submittals, change orders, and record drawings / documents submitted by the contractor; field inspection and construction oversight services; and resident project representative services during the construction phase of these projects. ISS also performed the assessment of progress on the exploratory well drilling, as well as monitoring, inspection, and evaluation of the well reaming and testing processes. *Engineering Fee - \$120,346 / Construction Cost - \$662,970; Completed - 2017*

Reclaimed Water Pump Station, Storage and Transmission Main System - ISS provided the planning, funding assistance, design, permitting, and engineering services during construction for a new reclaimed water pump station, storage tank and long transmission main backbone system. ISS assisted Dade City in attaining a Southwest Florida Water Management District Grant for this reclaimed water expansion project. *Engineering Fee - \$250,000 / Construction Cost - \$2.3M; Completed - 2012*

Master Pump Station and Lift Station Replacement and Rehabilitation Project -

ISS helped Dade City attain over \$8 million dollars through a FDEP Small Community Wastewater Grant. The FDEP-funded lift station replacement and rehabilitation project consisted of the replacement of five lift stations and rehabilitation of 17 additional lift stations in the City's wastewater collection system. The project included the construction of a new master pump station (triplex submersible) with an ultimate capacity of 2,200 GPM on the site of an existing 80 GPM lift station. The other replacement lift stations ranged in capacity from 800 GPM to 80 GPM. The rehabilitation of the pump stations included structural rehabilitation of existing wet wells, new piping, and valves, installation of by-pass connections, electrical controls, and SCADA improvements. *Engineering Fee - \$320,000 / Construction Cost - \$3.7M; Completed - 2011*



Dade City Water Supply and Wastewater System



Dade City Orange Valley Booster Pump Station Site

Wastewater Collection System Sanitary Sewer Evaluation Survey (SSES) Evaluation, Design, and Engineering Services During Construction (ESDC) – ISS completed the planning, funding assistance, SSES, field testing, design, permitting, and services during construction for the complete rehabilitation of the City's gravity collection system. ISS helped Dade City attain over \$8 million dollars through a FDEP Small Community Wastewater Grant for collection system and pump station rehabilitations. *Engineering Fee - \$680,000 / Construction Cost - \$6M; Completed – 2010*

Hydrant and Valve Replacement Engineering Services During Construction – Provided engineering services during construction and resident project observation for a state grant funded project to replace outdated fire hydrants within the City. *Engineering Fee - \$30,000 / Construction Cost - \$604,950,000, Completed – 2014*

Wastewater Treatment Plant Improvements – ISS Team Members provided the engineering of the improvements to the WWTP including rehabilitation of the headworks and screening, new clarification systems, replacement of pumping systems, new biosolids treatment through aerobic digestion tankage, and the addition of belt filter press dewatering to eliminate liquid biosolids hauling. *Engineering Fee - \$380,000 / Construction Cost - \$4M; Completed – 2009 (Prior Firm)*

WWTP Rerate from 1.2 to 1.5 MGD and Improvements - At the time the City started working with the ISS Team Members, the WWTP was permitted for 1.2 MGD and the City had an immediate need for additional capacity. The ISS process team evaluated the capacity of all unit processes in the WWTP and determined that with very minor improvements the City could rerate from a 1.2 MGD to 1.5 MGD WWTP. ISS prepared all of the treatment plant modeling and calculations, plus the FDEP permit modification documents, and rerated the WWTP to 1.5 MGD. ISS was able to help the City obtain a permitted 20% flow increase at negligible City cost-share. The City afterward estimated the value of the increased capacity at \$2 million dollars associated with the equivalent new plant construction costs and impact fees from new City customers. *Engineering Fee - \$25,000 / Construction Cost – City estimated at \$2M savings; Completed – 2007 (Prior Firm)*

WOODVILLE AREA SEWER SYSTEM IMPROVEMENTS (MULTI-PHASED PROJECT)

Leon County, Florida

Completion Date (Years of Service): This is not a continuing services contract, rather a multi-phased project for the City

- Phase 1A - Master Pump Station & Service Areas 0: 2021 (95% complete)
- Phase 1B - Service Areas 1 & 2, 2023: 2021 (85% complete, awaiting property acquisition)
- Phase 1C-1 - Service Areas 3 & 4: 2022 (85% complete, awaiting property acquisition)
- Phase 1C-2 - Service Areas 5, 6, & 7: 2022 (75% complete, awaiting property acquisition)

ISS is currently assisting Leon County with this septic-to-sewer conversion for the Woodville Community to minimize the impacts from septic tanks on the Wakulla Springs watershed. This project, when construction is complete, will provide the Leon County Woodville Community with a reliable method for wastewater collection and transmission to the City of Tallahassee Wastewater System and thereby assist in protection of Wakulla Springs. The project preliminary engineering was set up for approximately 1,500 parcels with gravity sewer, 10 lift station service areas, and a master pump station and force main, to be delivered in four phases of design and construction and includes residents throughout all of the Woodville Community.

ISS is providing the surveying, utility engineering, geotechnical services, environmental support services and permitting, roadway design, construction bid document and observation, right-of-way acquisition, and utility building design services for this important project.

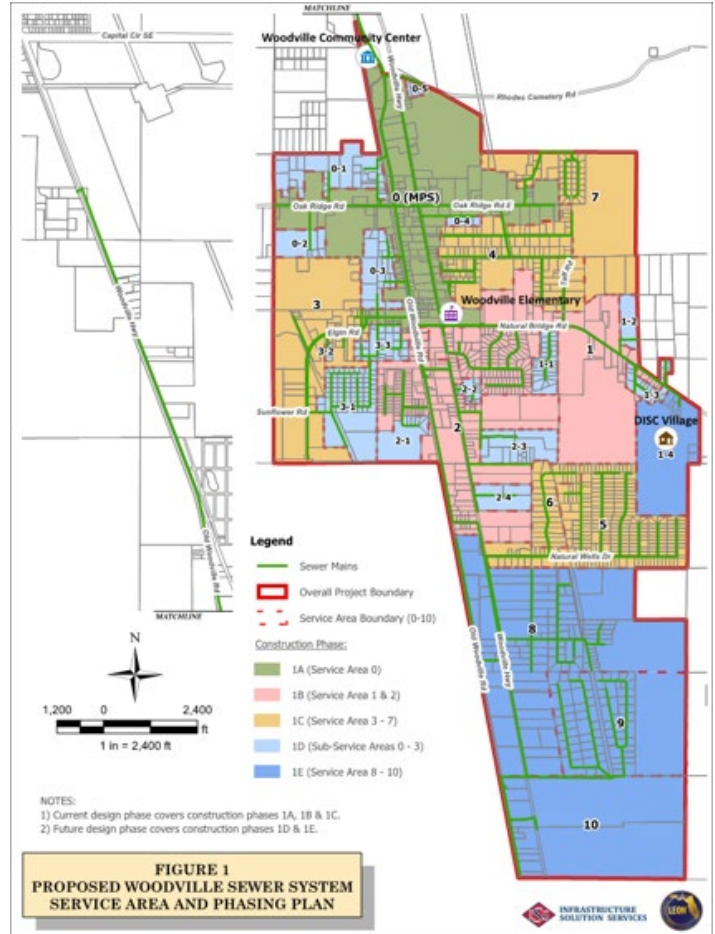


Phase 1A - Master Pump Station & Service Areas 0 This phase of the project involves the conversion of 174 homes within this Phase 1A Service Area of Woodville from septic systems to a new central sewer collection system. The project will also provide the Master Pump for the entire Woodville Community and three miles of 12-inch master force main to the City of Tallahassee sewer system. The design of Phase 1A is complete except for some Maintained ROW issues being resolved.

Phase 1B - Service Areas 1 & 2 - This phase of the project involves the conversion of 326 homes within this Phase 1B Service Area of Woodville from septic systems to a new central sewer collection system. The design of Phase 1B is nearly complete except for a couple of land acquisition issues being resolved.

Phase 1C-1 - Service Areas 3 & 4 - This phase of the project involves the conversion of 160 homes within this Phase 1C-1 Service Area of Woodville from septic systems to a new central sewer collection system. The design of Phase 1C-1 is nearly complete except for a few property acquisition issues being resolved.

Phase 1C-2 - Service Areas 5, 6, & 7 - The conversion of 160 homes in this Phase 1C-1 Service Area of Woodville from septic systems to a new central sewer collection system. The design of Phase 1C-1 is approximately 75% complete but still has several property acquisition issues to be resolved.



UTILITIES ENGINEERING SERVICES CONSULTANT CONTINUING CONTRACT

Palm Bay Utilities

Completion Date (Years of Service): Ongoing Continuing Contract (2020 – Current)

ISS was awarded a professional engineering services contract with the City of Palm Bay Utilities Department in 2020 (Continuing Consultant Engineering Services – Utilities [Water & Wastewater] Master Agreement), ISS has provided engineering design, permitting, and bidding services for the following utility infrastructure projects.

Lift Station No. 1 Replacement - Design and permitting services to convert an outdated lift station into a manhole and convey the sanitary flows from the three tributary gravity sewers into a new replacement station in accordance with the current Utilities Department's standards. The project includes two segments of replacement force main. The discharge from the proposed lift station will be conveyed by a

new force main approximately 700 feet long to connect with the existing force main. The second segment will be constructed to direct the flow in a new force main approximately 900 feet long within an existing 25 ft right of way. *Engineering Fee - \$71,500 / Construction Cost - \$890,000 (Estimated); Completion – 2022 (Estimated)*

Miscellaneous Water System Improvements - Design, permitting, and bidding services for water distribution system improvements / modifications at 11 locations. These improvements are being undertaken to replace old undersized lines, eliminate dead ends, replacement of deteriorating lines experiencing leaks, and remove abandon lines on bridges to improve water quality and / or fire flow. *Engineering Fee - \$220,870 / Construction Cost - \$2.1 Million (Estimated); Completion – 2022 (Estimated)*

Unit 55 Sanitary Pumping System Replacement - Design and permitting of traditional submersible wet well lift stations to replace three existing three low head pumping systems located within the Port Malabar Unit 55 sanitary collection system. The original scope of work envisioned the replacement lift stations discharging into the gravity sewer adjacent to the proposed lift stations. During the Preliminary Engineering task, the City determined that the preferred configuration would have the replacement lift stations pump into a new 3-inch force main conveying the flow to the existing Lift Station No. 30. *Engineering Fee - \$79,540 / Construction Cost - \$525,000 (Estimated); Completion – 2022 (Estimated)*

North Regional Reverse Osmosis Water Treatment Plant Carbon Dioxide Conversion - Design, permitting, and bidding services to convert the NRWTP from using sulfuric acid to a carbon dioxide (CO₂) feed system for pH adjustment. The conversion will eliminate the chemical handling hazards associated with the use of a strong corrosive mineral acid and the sulfuric acid feed is approaching the end of its useful service life. The design of the CO₂ feed system will be coordinated with separate preliminary design efforts for improvements to the reverse osmosis water treatment plant (ROWTP). *Engineering Fee - \$68,260 / Construction Cost - \$600,000 (Estimated); Completion – 2022 (Estimated)*

Wastewater Master Plan Update - Planning effort to evaluate the City's existing wastewater systems, project the impacts of future development, and recommend capital improvements to meet future needs. The master plan will evaluate the existing collection system operation, including gravity sewer, lift stations and forcemain, and the City's wastewater treatment facilities and will identify operational issues in the existing systems. The master plan will also include updates to the existing wastewater system model, analysis, and projection of future wastewater flows in the system which will be used to evaluate the system needs and proposed improvements needed in the 5-year, 10-year, and 20-year planning horizons. *Engineering Fee - \$244,260 / Construction Cost - N/A; Completion – 2021 (Estimated)*

Water Master Plan Update - Planning effort to evaluate the existing water systems, project the impacts of future development, and recommend capital improvements to meet future needs. The master planning process will include evaluation of the existing water transmission / distribution system, water storage and pumping facilities, and the City's water supply and reverse osmosis treatment facilities and



ISS Field Inspection of Existing Palm Bay Lift Station No. 1



Aerobic Digester at Palm Bay Utilities North Regional WWTP. ISS is performing a Condition Assessment Inspection at all the wastewater facilities as part of the Wastewater Master Plan. ISS will be making recommendations on facilities upgrade needs to be considered for future Capital Improvement Projects.

will identify operational issues in the existing systems. The master plan will also include updates to the existing water transmission/distribution system hydraulic model, analysis, and projection of future population growth and water demands in the system which will be used to evaluate the system needs and proposed improvements needed in the 5-year, 10-year, and 20-year planning horizons. *Engineering Fee - \$224,230 / Construction Cost - N/A; Completion – 2021 (Estimated)*

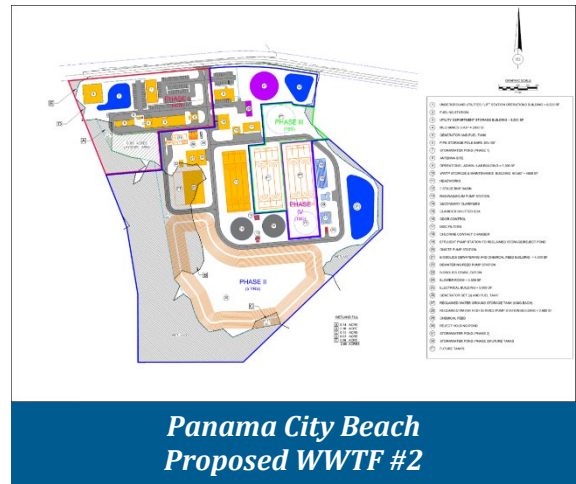
MAJOR WASTEWATER CONTINUING CONTRACT INCLUDING WWTP AND LARGE LIFT STATIONS

City of Panama City Beach, Florida

ISS completed several projects under this continuing contract including the following:

Replacement / Rehabilitation Evaluation of Lift Station #4 - Completed an evaluation of alternative repair solutions and locations for Lift Station #4. *Engineering Fee - \$268K / Construction Cost - \$2,560,000 (Estimated); Completion – 2022*

- **New 12 MGD WWTF #2** - Prepared a WWTF site plan, fueling station, and managed architectural subconsultants for three buildings in this Phase 1 design. Also prepared the layout of the remaining site with sizing calculations and layout. Planning, funding assistance, BNR process & MBR evaluations, preliminary design, permitting, oversight of a new 12 MGD AADF / 24 MGD PHF multi-phase project. Current phase to build to 4 MGD estimated at \$50M. Also designing/permitting underground utility operations facility. *Engineering Fee - \$830K / Construction Cost - \$50M (estimated); Design Completed – 2022 (Estimated)*



- **WWTF #1 Generator and Switch Gear Control System** - Completed an evaluation and design for a new switch gear control system for WWTF #1 generator systems. *Engineering Fee - \$10K / Construction Cost - \$220,000; Completed – 2018*
- **WWTF #1 Permit Renewal** - Completed the FDEP Domestic Wastewater Permit renewal preparation and submittal including the application, Capacity Analysis Report, and Operations & Maintenance Evaluation *Engineering Fee: \$60K; Construction Cost: N/A; Completed – 2017*

ISS was selected for this additional work based on our team's previous performance on these utility projects:

- **WWTP AWTF #1 Conversion from 10 to 14 MGD Expansion** - Design, permitting, and construction services for expanded capacity at the same facility previously converted to AWT. *Completed – 2014*
- **WWTP #1 Conversion to AWT & from 7 to 10 MGD Expansion and Reclaimed Water Pump Station System** - Included process optimization to achieve advanced wastewater treatment (AWT) effluent permitted water quality reductions with the design of a one-of-a-kind new three-stage BNR oxidation ditch retrofitted into the existing treatment system. 10MGD / 22MGD PHF. *Completed – 2006*



WATER AND SEWER CONTINUING SERVICES CONTRACT

City of Vero Beach, Florida

Completion Date (Years of Service): Ongoing Continuing Contract (2014 – Current)

ISS has been working for the City of Vero Beach since 2014 under a continuing contract, and key personnel have worked with the City at a prior firm since 2004. Relevant projects include the following:

ROWTF Biofiltration Odor Control System - Completed a biotrickling filter odor control replacement project for the City to successfully (>99% removal) eliminate hydrogen sulfide odors from the City ROWTP. *Engineering Fee - \$30,000 / Construction Cost - \$450,000; Completed – 2016 (ISS)*

WWTF Headworks Rehabilitation - Design of structural improvements and new screening options to the WWTF headworks facility to repair corrosion from the raw wastewater influent flow. *Engineering Fee - \$120,000 / Construction Cost - \$2,200,000; Completion – 2006 Prior Firm*

WWTF Operational Evaluation - Evaluation of the operational aspects of the WWTF and preparation of a basis of design report. *Engineering Fee - \$80,000 / Construction Cost - N/A; Completion – 2007 Prior Firm*

Biosolids Contractor Performance Specifications - Included the preparation of bid documents for the future disposition of the City WWTF biosolids. *Engineering Fee - \$28,000 / Construction Cost - N/A; Completion – 2008 Prior Firm*

WWTF Alternatives Analysis – Evaluation of four potential alternatives for the future site of the City's WWTF. The evaluation was to attain grant funding for the relocation of the plant off the Indian River Lagoon. Fed into CIP projects. *Engineering Fee - \$180,000 / Construction Cost - \$8,500,000; Completed – 2007 (Prior Firm)*

Emergency Renovation – Emergency design project that allowed the retrofit of a second-floor operations building at the WWTP and allowed the City to resume operations within just a few days in this facility following Hurricane damage. Also completed FEMA coordination and opinions of cost for improvements. *Engineering Fee - \$50,000 / Construction Cost - \$4,500,000; Completed – 2004 (Prior Firm)*



Vero Beach WRF

AS-NEEDED UTILITIES CONTINUING CONTRACT

North Key Largo Utility Corporation

Completion Date (Years of Service): Ongoing Continuing Contract (2017 – Current)

North Key Largo Utility Corporation (NKLUC) is the wastewater and irrigation/reclaimed water utility provides for the exclusive gated 1,500 person Ocean Reef community located in Key Largo (Monroe County) Florida. Clayton McCormack, PE of ISS has been performing engineering services for NKLUC since 2006 when he was with a previous firm. After joining ISS, NKLUC has continued to call upon Mr. McCormack for engineering services due to his previous experience and knowledge of the NKLUC system. Some of the projects completed by ISS include the following:

- **Irrigation / Reclaimed Water Service Area Expansion Study** - Completed an evaluation and a hydraulic model to expansion the distribution of reclaimed water for residential landscape irrigation through the community. Project involved development of a multi-year program of CIP projects to include installation of additional ground water supply wells, reverse osmosis treatment, storage,



distribution pumping, and reclaimed water distribution mains through the community. ISS supported the work of a rate consultant who determined the financial feasibility of the project. *Engineering Fee - \$45,000 / Construction Cost – N/A; Completed – 2018*

- **Ground Storage Tank Feasibility Study and Capital Cost Update** - Performed an update to a previous feasibility study to construct 4.0-million-gallon irrigation / reclaimed water ground storage tank on the site of an existing earthen-lined irrigation pond at a site on the southern end of the community where an open space / natural park site was proposed. *Engineering Fee - \$15,000 / Construction Cost – N/A, Completed – 2019*

ISS team members also completed the following projects while working with previous firms:

- **Advanced Treatment and Reuse Project –** Upgraded and expanded a 0.55 MGD WWTF for the Ocean Reef community to meet AWT effluent limits and to implement effluent reuse. The existing treatment process will be retrofitted with a four-stage Bardenpho biological treatment system using a flat-plate Membrane Biological Reactor (MBR) technology. Responsible for leading the evaluation and selection of the MBR equipment vendor as well as the process design of the fine influent screens, biological treatment system, ultra violet disinfection system, odor control system, and reverse osmosis reuse treatment system. *Engineering Fee – N/A to ISS (prior firm) / Construction Cost – N/A, Completed – 2010*



North Key Largo Reclaimed Water System RO Membrane Treatment Skids

- **Force Main Replacement Project** - Designed and provided construction support for the replacement of 1,500 linear feet of 6-in and 8-in old PVC sanitary force main. Replacement lines were high density polyethylene lines installed using directional drill due to the need to limit surface restoration along the route which included crossing under the world class golf course greens and crossing under runway pavement at the private airport. *Engineering Fee – N/A to ISS (prior firm) / Construction Cost – N/A, Completed – 2012*

CONTINUING CONTRACT UTILITY ENGINEERING SERVICES

Seminole County, Florida

Completion Date (Years of Service): Under contract since mid-2000s; Currently under contracts for Master Plan Update and Continuing Engineering Services

Under the Seminole County Environmental Services Division (SCESD) Program, Jacobs managed 200+ projects, totaling more than \$300M for the modernization and expansion of potable water, sanitary, and reclaimed water infrastructure using a program management approach implemented by our team. Delivery services provided included master planning, permitting, design management, procurement support, construction management, schedule and cost control, document controls, asset management, funding strategy development, cost benefit analysis, cost estimating, public outreach, and data management systems. The program management processes, tools, and skills developed during execution of the program set the stage for Seminole County to continue with implementation of additional capital improvements beyond the first eight years of the program.

Jacobs managed and coordinated a broad range of tasks; highlights are presented in the following:

Preliminary and Final Design Construction Documents: We provided design, permitting, and construction phase services for the influent pump station, ACTIFLO process treatment, chemical systems,

chlorine contact basin, ground storage tank, mechanical pipe and valve systems, and associated support systems.

Evaluations and Training: We performed an evaluation of current maintenance processes and provided best practices training for maintenance and reliability. We developed new facility maintenance plans and conducted an enterprise re-evaluation of levels of service and performance measurements.

Supported Water Supply Planning: We supported the County in permits to withdraw water from the St. Johns River at the Yankee Lake Surface WTP. We provided consulting and technical advisor services in permitting and strategies with regulatory issues of the St. Johns River Water Management District during the challenge to new rules planned as part of the Central Florida Water Initiative. As part of the ongoing Master Plan Update, we are preparing a 20-year water supply strategy and plan to secure sources of potable and reclaimed water supply.

Program Management: As program manager, we managed the work of design consultants including quality control, schedule monitoring, construction cost estimating, and construction management for: transmission mains, distribution and collection pipe networks, utility relocations, reuse transmission including retrofitting neighborhoods, wastewater pumping systems, and storage and/or booster facilities.

Hydraulic System Network Modeling: As part of the Master Plan Update, we are updating and operating the County's hydraulic models for potable water transmission network, wastewater collection network, and reclaimed water transmission network. We are modeling the current system performance and performance through 2040 to meet the County's criteria for performance of these systems. The County plans to take possession of the models at the completion of the project and have Jacobs provide training to staff on use of the models.

Water Audit: We conducted an analysis of the County's water system and prepared audits conforming to the St. Johns River Water Management District and the newly prepared AWWA model. We provided training to County staff on performance of the audits to enable the County to perform the audits in-house.

Instrumentation and Controls/Supervisory Control and Data Acquisition (SCADA): We oversaw the SCADA Hardware Master Plan (prepared by CDM Smith) in role as Program Manager.

Permitting Services: We conducted permitting for the new Yankee Lake Surface WTP. The WTP initially provided supplemental water supply to the County's reclaimed water system but has the infrastructure to serve a 50 mgd potable water production facility. Permits included the Consumptive Use Permit for withdrawal from the St. Johns River, USACE permits for site work and river-adjacent pump station, and FDEP WTP construction permits and associated permits for site development.

Construction Cost Estimating: We performed construction cost estimating on the Seminole County Program. We prepared all construction cost estimates for designs prepared by the design consultants, covering over \$300 million in construction.

Public Involvement: We provided public involvement services on multiple project that impacted communities. For example, we managed communications with a neighborhood that would be impacted by a temporary construction road behind numerous residences leading to the County Club WTP. The road was needed for transport of all construction equipment and materials needed for major upgrades to the WTP including a new ozone system.

Support to Operations and Maintenance (O&M) Division: We provided temporary management staff to support the O&M division. We also provided benchmarking analysis of staffing roles, positions, and number of personnel needed for optimum performance of the division.

Additional Services included:

- Provided construction phase support for the \$300 million in construction; services included bidding assistance, construction administration, construction management, and inspection services.
- Provided on-call engineering for a wide range of issues. Recently, structural engineering was provided for an emergency where a leaking water main was undermining the structure of a children's day care facility.



- Developed a new CIP project prioritization system to conform to the County's available funds during each fiscal year.
- Developed a 20-year asset renewal and replacement (R/R) model to support the CIP and O&M annual funding needs

WATER/WASTEWATER UTILITY ENGINEER-OF-RECORD SERVICES (PROGRESSIVE DESIGN-BUILD)

Bonita Springs, Florida

Completion Date (Years of Service): Ongoing

Since the mid-1980s, Jacobs (previously known as CH2M Hill or CH2M) or has provided a wide range of planning, engineering design, and construction services to support the needs of Bonita Springs Utilities (BSU) wastewater collection, treatment, and effluent reuse systems, as well as two deep injection wells, potable water treatment, and storage. Jacobs was retained by BSU to provide Engineer-of-Record services on numerous traditional and design-build projects with total fees exceeding \$100 million.

Reverse Osmosis and Lime Softening Water Treatment Plant (Progressive D-B): Jacobs provided pre-design, final design, bid phase services, permitting, services during construction, construction management, contractor through single-source DB services for a new reverse osmosis (RO) Water Treatment Plant (WTP). Jacobs also provided an operator training component to ensure successful startup. Demand from development in the area prompted BSU to expand their potable water production capability. As a result, Jacobs completed construction (2006) of the



\$40 million, 20,000-square-foot reverse osmosis (RO) WTP that boosts BSU's water production capacity to help BSU meet anticipated water demand. The 6 mgd facility, which is expandable to 12 mgd, uses a process that forces brackish water through membranes to remove salt and other impurities. The new facility, combined with the existing WTP, will allow BSU to eventually produce 20 mgd—enough to meet the needs of the utility's service area at build out. This project also included a storage tank, well field, and injection well for disposal of brine, a byproduct of the treatment process.

The new facility included four new 1.5 mgd, two stage membrane skids; new degasifier and transfer pumping facilities; new feed pump and raw water and finished water chemical feed systems; a new high-service pumping station with vertical turbine can pumps capable of meeting system wide peak hour flows of greater than 18 mgd; and a new concentrate deep injection well system.

Jacobs recently (2017) expanded this RO WTP by another 2-mgd capacity continuing with a progressive design-build delivery approach. The membrane skids were modified to produce another 0.5 mgd of permeate each by modifying the membrane array and replacing the membrane elements while maintaining the existing pre-treatment and feed pump facilities. The expansion also included new sand filters on the combined raw water pipeline to reduce the solids loading to the cartridge filters, a second degasifier, production wells, raw water transmission main and a transfer pump.

Currently, Jacobs is currently designing a further expansion to this RO WTP by adding a further two 2.0 mgd RO skids, including expanded pre-treatment and post-treatment facilities. The work also includes the conversion of the existing wet, chemical scrubber to a biological scrubber system for a cost-effective treatment of hydrogen sulfide laden degasifier offgas. Besides, the expansion of the RO WTP treating Floridan Aquifer source water, the work also includes the design of a nanofiltration system to replace the existing lime softening plant treating Surficial Aquifer water. The existing lime softening treatment structures and equipment would require a relatively large R&R program while the disposal of lime softening residuals was expected to remain a problem in the near future. Instead BSU has opted to phase out the lime softening process.



East Water Reclamation Facility (Progressive D-B): The East Water Reclamation Facility (WRF) is designed for a maximum month average daily flow of 4 mgd (15 ML/d) and provide 100 percent reuse of the plant's effluent. Because the client is dependent on reuse for effluent disposal, the membrane bioreactor (MBR) process was selected to produce a high quality effluent that will reliably meet Department of Environmental Protection (DEP) reclaimed water effluent standards (Class I Reliability). The East WRF is designed to treat the waste activated sludge (WAS) from both their new East WRF and the existing West WRF.



The East facility design includes WAS storage, thickening, dewatering, and drying to produce Class A sludge. The process consists of screening, grit removal, flow equalization, fine screening, MBRs, chlorination, out of compliance flow storage pond, wet weather storage pond, and effluent pumping. Odorous air is captured from the screening, grit removal, equalization tanks, fine screens, the channel between the anoxic and aerobic basins of the MBR process, the WAS storage and thickening facility, and the dewatering and drying facility and biologically treated using a Bioway Odor Control System. When this plant was placed online in

December 2006, it became the largest membrane bioreactor plant commissioned in Florida at the time.

West Water Reclamation Facility Expansion (Progressive D-B): In 2002, Jacobs completed Phase III (the design-build expansion of the West Water Reclamation Facility (WRF) to increase capacity to 7 mgd (27 ML/d). The principal components involved the design and construction of a new master influent pumping station (with a rated capacity of 28 mgd [106 ML/d]), modifications to the existing screening and de-gritting pretreatment structure, a new flow splitting structure, a new denitrification basin, a new final clarifier, expansion of the existing chlorine contact basin, and a sludge dewatering. The West WRF uses EIMCO Carrousel oxidation ditches both with and without the denitrification option followed by secondary clarifiers, DynaSand filters and sodium hypochlorite disinfection. Additionally, Jacobs was tasked with providing full automation of all facilities including two new electrical buildings, motor control centers, switchgear, programmable logic controllers, and workstations.

A key element involved rerating the existing treatment trains to result in a total improved capacity of 1 mgd (3.8 ML/d) over the planned buildout capacity. This program included microbiological assessment, filament identification and implementation of remedial measures and resolution of incomplete nitrification. A two pronged approach was developed—identifying the inhibition source and mechanical and operational options to restore treatment capacity. The ditch oxygen transfer capacity was measured through full scale peroxide testing and aeration alpha testing. A temporary Air Products high purity oxygen system was implemented successfully for short term oxygen transfer capacity increase, and an operations plan developed and tested to demonstrate the plant could be successfully operated.

BSU and Jacobs successful partnering has resulted in numerous project awards:

- In 1998, the client was one of only 10 awardees statewide among 7,000 eligible candidates to receive a Plant Operations Excellence Award from the Florida DEP.
- In 2000, the water treatment plant was recognized by the American Water Works Association as the Most Improved WTP in Florida.
- In 2008, the East WRF was awarded the 2008 Design-Build Institute of America Excellence Award for Projects over \$15 million.
- The East WRF received a 2012 Domestic Wastewater Plant Operations Excellence Award from the DEP in recognition of outstanding treatment plant operation, maintenance, and compliance.

WATER UTILITY ENGINEER-OF-RECORD SERVICES, NORTH SPRINGS IMPROVEMENT DISTRICT

Coral Springs, Florida

Completion Date (Years of Service): Ongoing

Jacobs completed the design, services during construction, commissioning and initial operation support of a new 7.5-mgd low pressure reverse osmosis (LPRO) facility designed to treat water from existing Biscayne freshwater wells that have high hardness and color. The new facility replaced the lime softening treatment process at the existing North Springs WTP site while using the existing finished water storage and high service pumping and source water wellfield. The existing lime softening plant required quite some monetary funds to execute some urgent refurbishment and repair projects to maintain successfully operation. NSID wanted also to improve the finished water quality and was looking at alternatives for lime sludge disposal. Based on a feasibility study, NSID selected the conversion to a membrane facility.



Three 2.25 mgd Reverse Osmosis skids for hardness and colour removal from the Biscayne Aquifer Source Water

The new treatment process includes sand strainers, 5 µm nominal rated cartridge filters, chemical pretreatment with sulfuric acid and scale inhibitor, three 2.25-mgd two-stage LPRO trains, 0.75 mgd bypass blending, degasifiers, biological odor control, finished water clearwell, post treatment chemical addition with sodium hypochlorite and sodium hydroxide, chemical storage and feed facilities, and transfer pumping to the existing finished water storage. The Membrane System Supplier was Doosan and membrane elements were from Toray TMH20A-400.

The new 11,600 square foot RO facility includes process areas as well as offices, a control room, a laboratory, storage rooms, and operator facilities.

Jacobs helped NSID find a cost-effective and sustainable treatment solution that met the need to replace aging water treatment infrastructure and transition to a new process that was less chemical intensive and would not produce lime softening residuals of which disposal had become more problematic over the last years. This benefited NSID by improving site aesthetics, enhancing finished water quality, reducing chemical consumption, and reducing solid waste while improving facility operability and lowering operating cost.



Sand strainers to remove solids loading from cartridge filters and provide additional protection for the membranes

Project challenges included designing a new facility that could fit within limited site space and geometry as well as designing around uncertain raw water quality because of the future need to treat brackish well water. The design included a detailed sequencing plan for the construction of the new facilities while maintaining operation of the existing lime softening equipment and structures. During the initial phase, the membrane concentrate was being discharged to sewer with the option to transition to deep well injection, once funds would become available. The construction of this deep injection well is now ongoing.

Jacobs used its proprietary tools to efficiently deliver the design. Our CPES™ design and costing tool, Preview™ visualization model, and Replica™, dynamic process simulation model were used to model the facility during preliminary design to find a space efficient process solution including powered inter-stage booster pumps with VFDs to maintain energy efficient operation when treating the anticipated wide range of feedwater quality.

Since the startup of the WTP upgrades, Jacobs has continued to provide professional services to help obtain construction permits and implement additional production wells, provide engineering services to equip existing production wells with variable speed drives for better flow control and help implement a deep injection well for the concentrate disposal.



The 11,000 sf membrane building includes process areas as well as offices, control room, laboratory, storage rooms, and operator facilities

GENERAL WASTEWATER CONSULTANT PROFESSIONAL A/E AND CIVIL ENGINEERING SERVICES

City of Fort Lauderdale, Florida

Completion Date (Years of Service): Ongoing

Jacobs' (Former CH2M) understanding of the City's infrastructure spans nearly 30 years, when we began our tenure as the general wastewater A/E consultant to the City of Fort Lauderdale Public Services Department in 1991 and subsequently served as the City's program manager for its water and wastewater CIP. The City re-selected Jacobs as its general wastewater A/E consultant in 2011, and that contract has been extended through 2020. Most recently, since 2017, Jacobs has also served as the City's Civil Engineering Consultant and just recently in 2020, Jacobs signed a contract with the City in regard to asset management consulting services. During all this time, we've had hands-on experience in working with the City's staff and have a strong understanding of the City's utility infrastructure and operations. Services provided over the years include project management; master planning; public involvement; design services, including process, conveyance, civil, geotechnical, electrical, SCADA/I&C, and structural engineering; environmental/permitting; water resources; GIS; hydraulic modeling; hydrogeological; DIW mechanical integrity investigations and other hydrogeological services; cost estimating; financial analysis and assistance; grant writing support; funding assistance; economics; cost and schedule control; inspection management; and construction management and administration.

Jacobs has been providing A/E services to the City of Fort Lauderdale Public Services Department since 1991, serving as a known and trusted partner to successfully deliver projects.



One of the first tasks awarded to the firm was the preparation of a Solids Management Action Plan for the handling of biosolids produced at the City's GTL WWTP. We also performed a capacity analysis at the GTL WWTP, which found that the plant could treat an additional 5 mgd. This increased the plant's capacity from 38 mgd to 43 mgd without the City having to invest any money or time into the process beyond that necessary for the evaluation and permitting. FDEP approved the rerating application, which saved the City as much as \$5 to \$10 million.



A more recent project includes drafting a design criteria package (DCP) for the design, permitting, construction startup, and testing of the following: one new 40 ton per day VPSA oxygen production process to replace the existing cryogenic oxygen production process including a building to house the system with an electrical room, control room with associated appurtenances; modifications to the existing plant electrical and supervisory control and data acquisition systems, modifications to the plant water and sewer systems, a new electrical building with MCCs to operate the existing liquid oxygen tanks, vaporizers, and associated equipment, demolition of the existing liquid oxygen system, modifications to the gaseous oxygen control and monitoring system for the four reactor basins, and miscellaneous appurtenances. The project was advertised and proposals received and reviewed. It is currently in the procurement phase.

Jacobs, in partnership with Hillers Electric, Inc. also completed the design of the replacement of various MCCs at the GTL WWTP. The project consists of the replacement of MCCs 3, 4, 4A, 5 and 6; replacement of existing utilized substations 3, 4, 5, and 6; replacement of all associated power, signal and control wiring and raceway to/from external device/connection and to the associated process controller, and an updated Power System Study incorporating all switchgear, unitized substations, switchboards, MCCs and panelboards installed, modified or repowered. Under this A/E contract, the City alerted our team to a problem at the GTL Sludge Dewatering Facility: workers found the thick odors difficult to bear. After spending a day at the facility experiencing the conditions firsthand, one of our engineers made immediate recommendations, and mobilized a project team focused on upgrading and improving the air handling system. Our team also assessed the belt filter presses and worked to improve their efficiency. Specifically, we reviewed costs, service life, and equipment quality of various belt filter presses, then recommended premium quality belt filter presses, which greatly improved the longevity of the system.



Jacobs has also worked for the City of Fort Lauderdale on the water treatment side. As part of the water and wastewater program manager, we optimized water and wastewater treatment facilities. We helped implement the Peele Dixie membrane treatment plant to soften Biscayne Aquifer groundwater. This facility has been operating successfully since 2009. Recently, we hired back for some tank and equipment replacement at that same Peele Dixie WTP. One of these projects is the Peele-Dixie WTP Sodium Hypochlorite Tanks Replacement and Degasifier Improvement project, that is currently in construction. An important aspect of the design was a construction phasing plan to replace the chemical storage tanks, while continuing operation of the WTP.

Other representative general wastewater and/or civil engineering projects include:

- AWIA PWD Risk and Resiliency Assessment and Emergency Response Plan
- GTL WWTP Effluent Pump Station
- Various Deep Injection Well Projects, including operation permit renewal and upgrade projects
- Bi-Annual Water and Sewer Engineer's Report and Bond Feasibility Reports



- Sewer Force Main Plug Valve and Air Release Valve Assessment
- 4th Avenue Forcemain Directional Drill
- Water and Wastewater Facility Processes Optimization
- GTL WWTP Dewatering Facility Renovations
- NW Industrial Area Sanitary and Storm Sewer Expansion
- A1A/Seabreeze and Pump Station A-15 Force mains
- North Fork New River Dredging
- Contamination Assessments at WWTP A, WWTP B Maintenance Area, Palmdale Pump Station, and Pump Station Site S-3
- Replacement of Pump Stations A-7, B-2, and D-43
- Pump Station and Conveyance System Study
- Sewer I&I Evaluation
- Initial Capacity, Management, Operations, and Maintenance (CMOM) Plan
- Pump Stations E-11, E-12, and E-13
- Technical Support for Land Applications Proposal
- Development of Technically Based Local Limits
- Demolition of WWTPs structures
- Sanitary and Stormwater Disposal Improvement Assessments



Q9. CONSTRUCTION ENGINEERING AND INSPECTION SERVICES

File #2, Question #9: Describe the CEI services your firm can provide.

ISS specializes in providing construction engineering and inspection services for water / wastewater utility infrastructure projects to Florida municipalities through continuing services and large treatment plant contracts. If selected to serve the City under this contract, the ISS and Jacobs Team will combine our senior engineering expertise with our experienced senior construction managers to provide the City with the best CEI solutions to its water and wastewater infrastructure needs. ISS understands our role will be to assist City staff on a wide variety of CEI assignments that may or may not have been projects designed by ISS. ISS will provide cost-effective CEI services by providing just what the City needs while minimizing expenses to the City. ISS is qualified and prepared to provide the following services during construction projects which are in construction or are nearing the construction phase:

- Conducting and/or attending preconstruction meetings
- Review and approval of shop drawings, products, etc.
- Preparation of change orders
- Construction contract administration
- Construction engineering and inspection services
- Coordination/provision of record drawings and as-built drawings
- Testing / testing coordination
- Project management in accordance with Contractual Documentation procedures
- If a federal grant is involved, a compliance specialist is required to ensure full compliance with the specific grant program requirements (Davis-Bacon, Buy American, etc.).

Additional engineering services that may be required during or around the construction phase could include:

- Bidding Assistance
- Requests for Information
- Contract Administration



- Review of Construction Documents Prepared by ISS or Others
- Monthly Status Reports & Progress Meetings
- Issuance of Field Orders / Work Directives
- Pay Application Review / Approval
- Permitting / Regulatory Compliance
- Resident Project Representative Services
- Engineer of Record or Professional Services Certifications
- Quality Assurance / Quality Control Checks
- Preparation of Record Drawings / As-built Drawing Approvals
- Preparation of Operations and Maintenance Manuals
- Environmental Consulting
- Start-up Operations & Commissioning

Q10. GRANT & LOAN FUNDING SUPPORT

File #2, Question #10: Provide examples of grants and loans your firm can provide.

PROVEN EXPERTISE AND COMMITMENT TO FUNDING ASSISTANCE

ISS is committed to identifying and securing supplemental funding for the City of Port St. Lucie. Our project team is extremely well versed on the types of funding available to the public infrastructure sector and has significant experience working with Florida local government entities to identify, apply for, and obtain state and federal funding for our clients that can help them accomplish more work with less of their own funds. We are adept at helping clients expand project scope and plan project phasing to capitalize on the availability of relevant funding. By leveraging outside funds, local governments can maximize the impact of every project that addresses important public infrastructure needs and preserve their own resources for additional requirements.

Our project team has long-standing relationships with key state agencies that administer funding programs, and we can assist the City in positioning or with meetings with key decision makers associated with these funding processes.

The ISS project team's experience includes the successful award of funding from the following grant and loan programs:

- Florida Department of Environmental Protection (FDEP), Clean Water State Revolving Fund (CWSRF)
- FDEP, Drinking Water State Revolving Fund (DWSRF)
- FDEP, Small Community Wastewater Construction Grant (SCWCG) Program
- FDEP, Springs Protection Grant
- FDEP 319H Grant Program (Septic to Sewer)
- FDEP Water Quality Protection Grants
- FDEP, State Water-Quality Assistance Grant (SWAG) Program

ISS has a passion for protecting the IRL, we maintain strong relationships with the regulatory and funding agencies with purview to water / wastewater projects in the region, and we are focused on helping communities obtain grant funding to implement projects to improve the water quality of the IRL.

We are currently implementing a \$150 Million funding program for Martin County septic to sewer projects, a significant portion of which has been funded as grants. We would like to apply this same funding expertise for the benefit of The City of Port St. Lucie.



- Federal Emergency Management Agency (FEMA), Public Assistance (PA) Grant Program
- FEMA, Hazard Mitigation Assistance (HMA) Grant Program
- Florida Department of Transportation (FDOT), Beautification Grants
- Indian River Lagoon Council (IRLNEP) Grants
- Natural Resource Conservation Service (NCRS), Emergency Watershed Protection (EWP) Program
- Save Our Indian River Lagoon (SOIRL) Grant Program
- Southwest Florida Water Management District (SWFWMD), Cost Share Grant and Reclaimed Water Grant
- St. Johns River Water Management District (SJRWMD), Cost Share Program
- United States Department of Agriculture (USDA), Stormwater Grant Program
- United States Department of Housing and Urban Development (HUD), Community Development Block Grant (CDBG) Program
- United States Department of Transportation (USDOT), Better Utilizing Investments to Leverage Development (BUILD) Transportation Grant Program
- USDOT, Transportation Investment Generating Economic Recovery (TIGER) Grant Program

Our clients have benefitted greatly from our past success in applying for and managing hundreds of millions in state and federal grants, low-interest loans, and reimbursement funds. Our grant funding specialists have expertise in grant management and the intricacies associated with managing grant dollars, and we can assist our clients with ensuring compliance with critical grant program requirements such as proper procurement and documentation of work.

A recent example of ISS's funding assistance success for utility projects is the recent work performed for Martin County, Florida. ISS is helping Martin County secure funding through several grant programs. To date we have identified approximately \$150M in potential funding, with \$9M secured in grants through the application / approval process.

“Martin County looked at several firms and selected ISS for their exceptional track record on funding local government project needs in Florida. [...] ISS has become a trusted advisor in working with Martin County in developing and submitting a \$150 million-dollar septic to sewer funding program that will provide Martin County with grants and loans over a ten-year horizon.”

***-Sam Amerson, PE, Martin County
Utilities & Solid Waste Director***





MARTIN COUNTY
BOARD OF COUNTY COMMISSIONERS
UTILITIES & SOLID WASTE DEPARTMENT
PO Box 9000 Stuart, FL 34995-9000

DOUG SMITH	Commissioner, District 1	TARYN KRZYDA, CPM	County Administrator
STACKY HETHERINGTON	Commissioner, District 2	SARAH W. WOODS	County Attorney
HAROLD E. JENKINS II	Commissioner, District 3		
SARAH HEARD	Commissioner, District 4	TELEPHONE	(772) 288-5400
EDWARD V. CIAMPI	Commissioner, District 5	WEBSITE	www.martin.fl.us

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October 1, 2020

To Whom It May Concern,

Over the past few years I have had the pleasure of working with the members of Infrastructure Solution Services (ISS). Martin County looked at several firms and selected ISS for their exceptional track record on funding local government project needs in Florida. The working relationships ISS maintains with the funding agencies appear to be impeccable. In the first year of working with Martin County ISS helped us successfully attain grants from three different Florida funding agencies. ISS has become a trusted advisor in working with Martin County in developing and submitting a \$150 million-dollar septic to sewer funding program that will provide Martin County with grants and loans over a ten-year horizon.

ISS provides a level of commitment I haven't often seen from our consulting firms. Members of ISS have worked on our water and wastewater projects and provided high-quality, innovative engineering expertise on the County wastewater collection, treatment, and biosolids system projects. I have always found the members of ISS to deliver solutions within our budgets and schedules. The team members were very personable in their approach and they routinely exceed the expectations of the County. ISS has my highest endorsement, as I believe they would be an excellent asset to your organization. Feel free to contact me at samerson@martin.fl.us or (772) 223-7942 should you have any questions about ISS.

Sincerely,

Handwritten signature of Sam Amerson in blue ink.

Sam Amerson, PE
Director
Martin County Utilities & Solid Waste Department

Q11. MISCELLANEOUS

File #2, Question #11: Provide a description of additional services your firm can provide.

VALUE-ADDED SERVICES

One of the major benefits of the ISS teaming arrangement with Jacobs is that we can offer the City of Port St. Lucie access to the following world-class, value-added services, as needed or desired. These are optional capabilities from the Jacobs bench that can be brought in as necessary through the structure of a smaller firm in ISS.

Climate Change, Sustainability, and Resiliency Planning Services

Since the late 1980s, Jacobs has been at the forefront of coastal resilience planning and management globally. Our preeminence in this area is to be seen in the variety of coastal, estuarine and marine planning commissions that we have been involved with on behalf of local, regional and national governments, and major companies. These include Integrated Coastal Zone Management; Coastal Planning Policy; Shoreline, Estuary and Beach Management; Coastal Flood and Erosion Risk Management Plans and Strategies; and the design of coastal protection projects, with recent experience



throughout the world, including the United Kingdom, Europe, the Caribbean, U.S., Middle East, Singapore, Australia, and New Zealand. Our coastal resilience projects have won numerous awards, including most recently, the 2018 Climate Change Business Journal Project Merit Award for Resilience Planning for Economic Development in Belize, and the US National Association of Environmental Professionals, Presidents National Environmental Excellence Award for Louisiana's 2007 Comprehensive Master Plan for a Sustainable Coast (prepared in response to Hurricane Sandy).

Complementing our global reach is our local experience of delivering a range of environmental, watershed planning, and infrastructure design work. Our local knowledge (including technical, regulatory, relational, and cultural acumen) and our technical expertise in all aspects of work in watershed and coastal zone planning and management allows us to leverage efforts, use stakeholder relationships, and apply our knowledge and critical key factors to efficiently assist the City with projects. Our global and regional resilience and coastal experts provide the City with many decades of experience in studies to define natural hazards on coasts, estuaries and rivers globally, and develop policy and planning approaches to provide resilient infrastructure and communities. Our detailed working knowledge of the latest climate change science enables us to provide expert guidance to the City on appropriate projections to adopt for coastal development control and the timeframes over which to consider change.

We recognize the importance of providing a robust scientific foundation upon which defensible investment and planning decisions can be made. From our experience with the planning and delivery of coastal resilience projects and programs globally, we are keenly aware of the potential political, social and economic implications of publishing hazard/risk lines on maps, with the potential to blight existing land and development that finds itself on the wrong side of the line. This appreciation drives our focus on the technical quality of projected future hazard areas, and a strong focus on engagement with affected communities to provide awareness of the developing products.

Our management approach will be informed by the most trusted, recent and relevant data and information available. We will rely on our team and its broad networks for trusted information, not anecdotes and speculation. For example, while preparing this qualifications package, two timely and relevant Urban Land Institute (ULI) reports were published. "CLIMATE RISK AND REAL ESTATE Emerging Practices for Market Assessment" and "The BUSINESS CASE FOR RESILIENCE IN SOUTHEAST FLORIDA Regional Economic Benefits of Climate Adaptation", mentioned above. Fortunately, our lead real estate strategist, as well as other key team members, are actively involved in ULI and are monitoring this emerging field.

Hydrogeology / Water Supply

We provide a wide range of hydrogeological services, ranging from providing engineering solutions to assessing (qualitatively and quantitatively) impacts on environmental receptors, supporting permitting and licensing, and dealing with water resources and water quality issues through risk assessments.

Our capabilities and services include:

- Preparation of conceptual hydrogeological models
- Groundwater monitoring using data loggers
- Borehole purging, sampling and laboratory analysis
- Aquifer testing using single and multi-well approaches
- Hydrogeological risk assessments – qualitative and quantitative
- Groundwater modelling (Modflow, Seep/W, ConSim, RAM, LandSim)
- Water tracing
- Multi-disciplinary delivery



*Injecting carbon substrate
for bioremediation at Hill
Air Force Base, Utah.*

We are involved in extensive long-term programs of delivery for major government clients and also work on small bespoke projects for site owners and developers. The early engagement of the hydrogeology team can ensure potential groundwater issues are identified at project outset, so that all required



information is collected in a timely and cost-effective manner, regulatory requirements are fulfilled, and project timescales met.

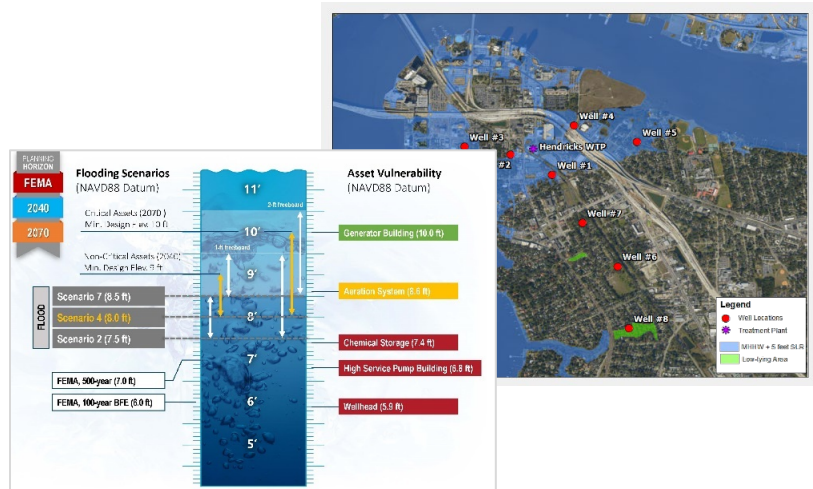
Solid Waste Leachate

Jacobs brings diverse and extensive expertise in the management and treatment of landfill leachate. Landfill leachates are typically characterized by having high ammonia concentrations that make it challenging to manage, even when conveyed to municipal wastewater treatment facilities because they provide significant ammonia loads that can lead to plant upsets and operational challenges. Jacobs has provided solutions to this problem by implementing side-stream treatment technologies that significantly reduce ammonia loads. One unique approach that Jacobs provides as a core technology to landfill leachate treatment is the use of Natural Treatment Systems. These systems when designed for landfill leachate provide high-rate nitrification or deammonification (Anammox) to reduce nitrogen loads prior to treatment at the municipal wastewater treatment facilities or discharge. Natural Treatment Systems often have lower capital cost when compared to other intensive treatment technologies, and almost always have significantly lower operation and maintenance cost. Natural Treatment Systems take advantage of the natural physical, chemical, and biological processes, are self-sustainable, and often require zero energy to operate. By using specialized media, passive operational strategies to introduce oxygen, vegetative covers, and gravity, these treatment systems will meet water quality targets consistently while providing green and sustainable approaches that save money.

Wastewater Systems Condition Assessments

For a typical Condition Assessment task, Jacobs will conduct a field work review meeting to finalize the Field Work Plan and to discuss current O&M status of the facilities. The Field Work Plan will summarize the facilities to be assessed, assets to be assessed at those facilities and the assessment criteria to be used. Jacobs will also use the review meeting to discuss with the owner's staff the maintenance programs in place and operational/maintenance histories that have consistently shown to reduce the typical design life of an asset. Information discussed at this meeting may include:

- The useful life of the asset relative to manufacturer recommendation and the degree the theoretical useful life should be modified (based on actual performance, owner's best practices, or for risk/reliability/compliance).
- A consensus on the failure definition for each class of asset and a determination of the general mode of failure (age dependent, random, etc.).
- A consensus on remaining useful life based on the condition assessments and staff experience.
- A determination of which assets or classes of assets are operated in a run-to-failure mode, if any
- The frequency of renewal. For each class of asset, how is renewal (or rebuild) defined or standardized? How is renewal related to improvement of asset condition or extension of remaining useful life?



Our field data collection crew performs aerial photogrammetry to assist with in-house multi-year system assessment and prioritized climate adaptation/capital plan for JEA, Jacksonville, FL.

Q12. ABILITY TO MEET SCHEDULE AND BUDGET REQUIREMENTS

File #2, Question #12: Describe how you manage projects in order to meet schedule and budget requirements.

ISS understands the importance of delivering projects on time and within budget. Delays and budget over-runs can have wide ranging and exponential impacts. Utilizing our highly experienced project management team led by Mr. Tom Vill, PE we will drive the timely completion and efficient use of resources on the project.

To ensure we can meet the scheduled and budget requirements of the City and our other clients, ISS develops a well-defined Project Management Plan (PMP) at the start of each project that details the execution and resource requirements of the project and outlines key decision points and any areas of concern. As the ISS project manager, Mr Vill will be responsible for assuring the project is completed within the schedule and budget. He will work with the ISS project team, designated City staff, and project stakeholders to define the project scope, budgetary requirements, the schedule, and a plan of action. After this initial project scoping is complete, the project manager will prepare the detailed PMP providing a detailed plan for executing the project and identifies the man-hour and resource needs for the project. To further maintain accountability, ISS project schedules and resource requirements are updated regularly and reviewed on a weekly basis. These reviews allow the project manager to evaluate the status of the project quickly and make the needed adjustments to meet or beat our client's schedules and budgets by actively monitoring progress, ensuring all team members are completing their work on time and budget, and maintaining accountability.

Most often, we have found that schedule delays and budget over-runs result from one of several factors including:

- Not having an accurate understanding of project conditions from the outset
- Assigning inappropriate staff (client and/or consulting staff) to manage a project
- Allowing data needs, critical decisions, etc. to linger in lieu of meeting with the client to resolve the issue to keep the project moving forward
- Poor communication at the administration and/or project level to identify and resolve issues while they are small and relatively easy fixes

The sections that follow describe our strategies to ensure that these common reasons for schedule delays and budget over-runs do not occur on ISS projects. Our project manager will use our time-tested processes to plan, monitor, and make the any adjustments needed throughout the process ensure we meet or beat the City's schedules and budgets.

METHODOLOGY FOR MEETING THE SCHEDULE

ISS understands the critical need for schedule compliance. Our methodology for maintaining schedule compliance includes the following:

- Effective communication and planning at the outset of a project to ensure a comprehensive understanding of assumptions and factors that drive a project schedule.
- Strong project management and communication to ensure that projects progress and are not unnecessarily delayed awaiting data collection, feedback, decisions, etc. Potential "schedule busters" will be quickly highlighted, vetted, and resolved.
- Weekly (or as determined necessary) Project Progress Memorandums to the user departments that indicate completed, in-progress, and future tasks. As part of these memos, ISS will identify any issues or concerns that may be inhibiting project progress and seek client assistance in resolving the issue as necessary.
- Regular independent quality control reviews to ensure that projects are being properly executed and that course corrections are made quickly to avoid schedule delays and budget over-runs.
- Extensive use of technologies such as Microsoft Project that specify key deliverables, critical decision points, required meetings, and other crucial milestones for full schedule transparency.



- Weekly internal backlog and workflow analysis to ensure an appropriate balance of skilled staffing resources and project demands. Our senior leadership also conducts project review meetings with our staff engineers to ensure that projects are progressing on schedule.
- Effective recruiting and hiring practices such that we are maintaining a roster of prospective staff to accommodate growth as well as potential staff departures.

METHODOLOGY FOR MEETING THE BUDGET

ISS is committed to the cost-effective execution of our planning, design, and construction administration services. Our methodology for ensuring effective budget control includes the following:

- Developing an accurate understanding of project circumstances and conditions (data collection) from the outset to minimize unanticipated / unforeseen conditions.
- Budget development and reviews using Deltek Ajera by our most senior staff that have executed similar projects and are familiar with the level of effort required to accomplish tasks.
- Utilizing staff with the appropriate level of skills, qualifications, and/or experience depending on the scope and complexity of the tasks at hand.
- Routine project reporting to identify issues that have the potential to result in project over-runs. Making course corrections early to ensure budget compliance.
- Periodic senior management meetings with the client to identify projects, staff, issues, etc. that are of concern and taking pro-active measures to mitigate potential issues.

PROOF OF MEETING SCHEDULE AND BUDGET REQUIREMENTS

As evidence of our track record in delivering similar projects on time and budget, we present the following table. As shown, ISS has a proven history of meeting our schedule and cost commitments on previous projects.

Success Meeting Time and Budget on Previous Projects

Project / Client	Original Budget	Actual Const.	Savings	Original Schedule	Actual Schedule
Indian River Isles Septic to Sewer Conversion Brevard County Utility Services District	\$4.6M \$198K Des \$176K Des	TBD \$198K Des TBD	\$.28M	Design: 10 months Construct: 12 months	Design: 10 months Construct: TBD
Eastern WRF and Effluent Systems Project City of Deltona, Florida	\$30M \$2.7M	\$28M \$2.7M	\$2M	Design: 16 months Construct: 28 months	Design: 15 months Construct: 26 months
Grant Street WRF 5.5 MGD BNR Project Improvements City of Melbourne, Florida	\$17M est. \$989K	\$TBD \$989K	\$TBD	Design: 12 months Construct: TBD	Design: 10 months* Construct: TBD *Current
North Brevard WRF Improvements Brevard County Utilities Services Dept.	\$44K	\$44K	\$0K	Evaluation & CIP Work: 2.5 months	Evaluation & CIP Work: 1.5 months
Sykes Creek WRF Reclaimed System Improvements Brevard County Utilities Services Department	\$166K \$1.5M	\$113K \$TBD	Awaiting Const.	Design: 9 months Construct: TBD	Design: 8 months Construct: TBD
Sykes Creek WRF Conversion to AWT Brevard County Utilities Services Dept.	\$39K	\$35K	\$4K	Performance & BNR Eval: 3 months	Performance & BNR Eval: 2.5 months



Project / Client	Original Budget	Actual Const.	Savings	Original Schedule	Actual Schedule
Military Point Regional AWT Facility 7 MGD Bay County, Florida	\$22.5 M \$1.7M	\$21M \$1.7M	\$1.5M	Design: 12 months Construct: 24 months	Design: 12 months Construct: 22 months
WWTP Rerate 2.9 to 3.4 MGD and Re-permit Project (Evaluation & Permitting) Englewood Water District	-	-	\$5M saving in capacity	Rerate: 9 months	Rerate: 8 months
WWTP Expansions and Rerate: 1.2 to 1.5 MGD City of Dade City, Florida	-	-	\$2M saving in capacity	Rerate: 6 months	Rerate: 4 months
WWTF #1 - 2 MGD Expansion & Improvements, Preliminary Engineering City of Palm Coast, Florida	\$40K	\$25K	\$15K	PER & Evaluation: 6 months	PER & Evaluation: 4.5 months
Major Master Pump Stations T-16 and T-25 Brevard County Utility Services District	\$2.9M \$281K	\$1.77M \$271K	\$1.1M \$10K	Design: 6 months Construct: 10 months	Design: 4.5 months Construct: 9 months
Sylvan Estates Septic to Sewer Conversion City of West Melbourne, Florida	\$2.6M \$198K	\$2. 32M \$198K	\$.28M	Design: 8 months Construct: 10 months	Design: 6 months Construct: 6 months (currently)
Woodville Septic to Sewer Conversion Phase 1 Leon County, Florida	\$10M \$800K	TBD \$800K	\$0M	Design: 9 months Construct: 12-month w/2020 start	Design: 9 months Construct: TBD
Woodville Septic to Sewer Conversion Phase 2-4 Leon County, Florida	\$30M \$1.86M	TBD \$1.1M underway	\$0M	Design: 12 months Construct: Phases thru 2025	Design: 12 months Construct: TBD
WWTF Capacity Expansion St. Lucie West Services District	\$10M \$880K	\$9. 95M \$880K	\$0M	Design: 10 months Construct: 22 months	Design: 10 months Construct: 20 months
AWTF 10 to 14 MGD Expansion/AWT Conversion City of Panama City Beach, Florida	\$24 M	\$23.5 M	\$.5 M	Design: 12 months Construct: 30 months	Design: 10 months Construct: 28 months
AWTF 7 to 10 MGD Expansion/AWT Conversion City of Panama City Beach, Florida	\$20M	\$18M	\$2M	Design: 9 months Construct: 28 months	Design: 8 months Construct: 25 months





"A City for All Ages"

CONTRACTOR'S QUESTIONNAIRE

eRFP # 20210093

Solicitation Name: Continuing Engineering Services for Utility Projects

It is understood and agreed that the following information is to be used by the City of Port St. Lucie to determine the qualifications of Contractors to perform the work required. The Contractor waives any claim against the City that might arise with respect to any decision concerning the qualifications of the Consultant.

The undersigned attests to the truth and accuracy of all statements made on this questionnaire. Also, the undersigned hereby authorizes any public official, Consultant, surety, bank material or equipment manufacturer, or distributor, or any person, firm, or corporation to furnish the City of Port St. Lucie any pertinent information requested by the City deemed necessary to vary the information on this questionnaire.

1. **ORGANIZATIONAL PROFILE**- COMPANY NAME: [Infrastructure Solution Services](#)

PHYSICAL ADDRESS: [7175 Murrell Road, Melbourne, FL 32940](#)

MAILING ADDRESS: [7175 Murrell Road, Melbourne, FL 32940](#)

TELEPHONE NUMBER: [321-622-4646](#)

FAX NO. [321-256-5088](#)

CONTACT PERSON [Brian Stahl, PE](#)

E-MAIL : bstahl@infrastructuress.com

Is the firm incorporated? Yes--No If yes, in what state? Provide a list of officers for this entity. Yes - Florida
[Brian M. Stahl, PE - Managing Member; Kiran V. Kulkarni, PE - Managing Member](#) See last 2 pages of
2. **COMPLETION OF FORM**- An authorized representative of the firm offering this Proposal must complete this form in its entirety. Terms entered herein shall not be subject to withdrawal or escalation by Contractor. The City reserves the right to hold proposals for a period not to exceed one hundred twenty (120) calendar days after the date of the proposal opening stated in the Invitation to Proposal before awarding the Contract. Contract award constitutes the date that City issues an executed Purchase Order. File #4

3. **CONTRACT** - Contractor agrees to comply with all requirements stated in the specifications for this RFP.

4. **AGREEMENT** - Contractor agrees to comply with all requirements stated in the specifications for this RFP.

4. **AGREEMENT** - Contractor agrees to comply with all requirements stated in the specifications for this RFP.

CERTIFICATION:

This RFP is submitted by: Name (print) [Brian Stahl, PE](#) who is an officer of the above firm duly authorized to sign proposals and enter into contracts. I certify that this solicitation



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response is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud.

The Contractor understands that information contained in this Solicitation Reply will be relied upon by City in awarding the proposed Contract and such information is warranted by the proposer to be true. The undersigned Contractor agrees to furnish such additional information, prior to acceptance of any solicitation relating to the qualifications of the proposer, as may be required by the City.

I certify that the information and responses provided on this Solicitation are true, accurate and complete. The City may contact any entity or reference listed in this Proposal. Each entity or reference may make any information concerning the Contractor available to the City.

I agree to abide by all conditions of this RFR:

Brian Stahl Signature Managing Member Title

If a corporation renders this Proposal, the corporate seal attested by the secretary shall be affixed below. Any agent signing this Proposal shall attach to this form evidence of legal authority.

Witnesses:

If Partnership: N/A

Julie Glenn
Print name
Julie Glenn

Print Name of Firm

Suzy Daigle
Print name
Suzy Daigle

By: _____
(General Partner)

If Individual: N/A

If Corporation: Infrastructure Solution Services

Print Name of Corporation

Signature

Print Name

By: Brian Stahl
(President) Managing Member
Attest: Kolan Henderson
(Secretary) Managing Member



SUPPLIER LOCATION CERTIFICATION

Attachment D - PSL Location Form

The undersigned, as a duly authorized representative of the Supplier listed herein, certifies to the best of their knowledge and belief, that the Supplier's location is correctly reflected based upon the below information. For purposes of this section, "Location" shall mean a business which:

- a) How far is the Supplier's fixed office or distribution point located from City Hall; and
- b) Is the principal offeror who is a single offeror; a business which is the prime contractor and not a subcontractor; or a partner or joint venturer submitting an offer in conjunction with other businesses.

Complete the following and upload this document and the Google Maps print out to the required sourcing platform:

Business Name: Infrastructure Solution Services Infrastructure Solution Services	
Current Local Address: 7175 Murrell Road, Melbourne, FL 32940 Length of time at this address: 1 year	Phone: 321-622-4646 Fax: 321-256-5088
Please provide your prior business address if the above address has been for less than one (1) year, prior to the issuance of this solicitation. 7185 Murrell Road, Suite 101, Melbourne, FL 32940 Length of time at this address:	
Home Office Address: 7175 Murrell Road, Melbourne, FL 32940 Length of time at this address: 1 year	Phone: 321-622-4646 Fax: 321-256-5088

(Signed) Brian Stahl
 (Title) Managing Member

STATE OF FLORIDA }
 COUNTY OF ~~ST. LUCIE~~ **Brevard**

The foregoing instrument was acknowledged before me this (Date) August 16, 2021

by: Brian Stahl, PE who is personally known to me or who has produced
 _____ as identification and who did (did not) take an oath.

Julie I Glenn
 Notary (print & sign name)

Commission No. HH 136201



JULIE I. GLENN
 Commission # HH 136201
 Expires June 1, 2025
 Bonded Thru Budget Notary Services

Attachment E - Cone of Silence Form



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NOTICE TO ALL PROPOSERS:

To ensure fair consideration is given for all Proposers, it must be clearly understood that upon release of the proposal and during the proposal process, firms and their employees of related companies as well as paid or unpaid personnel acting on their behalf shall not contact or participate in any type of contact with City employees, department heads or elected officials, up to and including the Mayor and City Council. The **"Cone of Silence"** is in effect for this solicitation from the date the solicitation is advertised on DemandStar, until the time an award decision has been approved by City Council and fully executed by all parties. Information about the Cone of Silence can be found under the City of Port St. Lucie Ordinance 20-15, Section 35.13. Contact with anyone other than the Issuing Officer may result in the vendor being disqualified. All contact must be coordinated through Mr. Jason Bezak, Issuing Officer, for the procurement of these services.

All questions regarding this Solicitation are to be submitted in writing to Jason Bezak, Procurement Agent I with the Procurement Management Department via e-mail JBezak@cityofpsl.com, or by phone 772-344-4068. Please reference the Solicitation number on all correspondence to the City.

All questions, comments and requests for clarification must reference the Solicitation number on all correspondence to the City. Any oral communications shall be considered unofficial and non-binding.

Only written responses to written communication shall be considered official and binding upon the City. The City reserves the right, at its sole discretion, to determine appropriate and adequate responses to the written comments, questions, and requests for clarification.

*NOTE: All addendums and/or any other correspondence before bid close date (general information, question and responses) to this solicitation will be made available exclusively through the DemandStar's Website for retrieval. All notice of intent to award documentation will be published on the City Clerk's Website. Proposers are solely responsible for frequently checking these websites for updates to this solicitation.

I understand and shall fully comply with all requirements of City of Port. St. Lucie Ordinance 20-15, Section 35.13.

Typed Name: Brian M. Stahl, PE

Signed: _____

A handwritten signature in blue ink that reads "Brian Stahl".

Company and Job Title: Infrastructure Solution Services, Managing Member

Date: August 16, 2021



"A City for All Ages"

eRFP #20210093

ATTACHMENT F - CONSULTANT'S CODE OF ETHICS

The City of Port St Lucie ("City), through its Procurement Management Department ("Procurement Management Department") is committed to a procurement process that fosters fair and open competition, is conducted under the highest ethical standards and enjoys the complete confidence of the public. To achieve these purposes, Procurement Management Department requires each vendor who seeks to do business with the City to subscribe to this Consultant's Code of Ethics.

- ◆ A Consultant's bid or proposal will be competitive, consistent and appropriate to the bid documents.
- ◆ A Consultant will not discuss or consult with other Vendors intending to bid on the same contract or similar City contract for the purpose of limiting competition. A Vendor will not make any attempt to induce any individual or entity to submit or not submit a bid or proposal.
- ◆ Consultant will not disclose the terms of its bids or proposal, directly or indirectly, to any other competing Vendor prior to the bid or proposal closing date.
- ◆ Consultant will completely perform any contract awarded to it at the contracted price pursuant to the terms set forth in the contract.
- ◆ Consultant will submit timely, accurate and appropriate invoices for goods and/or services actually performed under the contract.
- ◆ Consultant will not offer or give any gift, item or service of value, directly or indirectly, to a City employee, City official, employee family member or other vendor contracted by the City.
- ◆ Consultant will not cause, influence or attempt to cause or influence, any City employee or City Official, which might tend to impair his/her objectivity or independence of judgment; or to use, or attempt to use, his/her official position to secure any unwarranted privileges or advantages for that Vendor or for any other person.
- ◆ Consultant will disclose to the City any direct or indirect personal interests a City employee or City official holds as it relates to a Vendor contracted by the City.
- ◆ Consultant must comply with all applicable laws, codes or regulations of the countries, states and

localities in which they operate. This includes, but is not limited to, laws and regulations relating to environmental, occupational health and safety, and labor practices. In addition, Consultant must require their suppliers (including temporary labor agencies) to do the same. Consultant must conform their practices to any published standards for their industry. Compliance with laws, regulations and practices include, but are not limited to the following:

- Obtaining and maintaining all required environmental permits. Further, Consultant will endeavor to minimize natural resource consumption through conservation, recycling and substitution methods.
- Providing workers with a safe working environment, which includes identifying and evaluating workplace risks and establishing processes for which employee can report health and safety incidents, as well as providing adequate safety training.
- Providing workers with an environment free of discrimination, harassment and abuse, which includes establishing a written anti-discrimination and anti-bullying/harassment policy, as well as clearly noticed policies pertaining to forced labor, child labor, wage and hours, and freedom of association.

Name of Organization/Proposer Infrastructure Solution Services

Signature 

Printed Name and Title Brian M. Stahl, PE - Managing Member

Date August 16, 2021

DISCLAIMER: This Code of Ethics is intended as a reference and procedural guide to contractors. The information it contains should not be interpreted to supersede any law or regulation, nor does it supersede the applicable contractor contract. In the case of any discrepancies between it and the law, regulation(s) and/or contractor contract, the law, regulatory provision(s) and/or vendor contract shall prevail.



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E-Verify Form
Attachment G - E-Verify Form

Supplier/Consultant acknowledges and agrees to the following:

- 1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

E-Verify Company Identification Number 812452
Date of Authorization 09/09/2014
Name of Contractor Infrastructure Solution Servic
Name of Project Continuing Engineering Services for Utility Projects
Solicitation Number (If Applicable) eRFP (Event) Number: 20210093

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on August 16, 2021 in Melbourne (city), FL (state).

Handwritten signature of Brian M. Stahl

Signature of Authorized Officer

Brian M. Stahl, PE - Managing Member

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 16th DAY OF August, 2021.

NOTARY PUBLIC Julie I Glenn [Handwritten Signature]

My Commission Expires: June 1, 2025



JULIE I. GLENN
Commission # HH 136201
Expires June 1, 2025
Bonded Thru Budget Notary Services

Attachment H - Non-Collusion Affidavit



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NON-COLLUSION AFFIDAVIT

Solicitation #20210093

Continuing Engineering Services for Utility Projects

State of Florida

County of Brevard }

Brian M. Stahl, PE, being first duly sworn, disposes and says that:

(Name/s)

1. They are Managing Member of Infrastructure Solution Services the Proposer that
(Title) (Name of Company)

has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) Brian Stahl

(Title) Brian M. Stahl, PE - Managing Member



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STATE OF FLORIDA }
COUNTY OF ~~ST. LUCIE~~ SS: Brevard

The foregoing instrument was acknowledged before me this (Date) August 16, 2021

by: Brian M. Stahl, PE who is personally known to me or who has produced
_____ as identification and who did (did not) take an oath.

Commission No. HH 136201

Notary Print: Julie I Glenn

Notary Signature: Julie I Glenn



JULIE I. GLENN
Commission # HH 136201
Expires June 1, 2025
Bonded Thru Budget Notary Services

Attachment I - Drug Free Workplace Form
DRUG-FREE WORKPLACE FORM
eRFP # 20210093
Continuing Engineering Services for Utility Projects

The undersigned Contractor in accordance with Florida Statute 287.087 hereby certifies that

Infrastructure Solution Services does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 Florida Statutes or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.



Brian M. Stahl, PE - Managing Member
Bidder's Signature

August 16, 2021

Date:

Attachment J - Truth In Negotiation



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TRUTH-IN-NEGOTIATION CERTIFICATE

Solicitation# 20210093

Pursuant to Section 287.055(5)(a), Florida Statutes, for any lump-sum or cost-plus-a-fixed fee professional services contract over the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY FOUR, the City of Port St. Lucie, Florida requires the Consultant to execute this certificate and include it with the submittal of the Technical Proposal, or as prescribed in the contract advertisement.

The Consultant hereby certifies, covenants, and warrants that wage rates and other factual unit costs supporting the compensation for this project's agreement are accurate, complete, and current at the time of contracting.

The Consultant further agrees that the original agreement price and any additions thereto shall be adjusted to exclude any significant sums by which the City determines the agreement price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such agreement adjustments shall be made within (1) year following the end of the contract. For purposes of this certificate, the end of the agreement shall be deemed to be the date of final billing or acceptance of the work by the City, whichever is later.

Infrastructure Solution Services

Name of Firm

Brian M. Stahl, PE

President or Designee (Printed)

Brian Stahl

President or Designee (Signed)

Brian M. Stahl, PE

The foregoing instrument was acknowledged before me by _____ (Name of County) who is

personally known to me. WITNESS my hand and official seal in the State of Florida

last aforesaid this 16 day of August, 2021.

(SEAL)



JULIE I. GLENN
Commission # HH 136201
Expires June 1, 2025
Bonded Thru Budget Notary Services

Signature

Julie I Glenn

Notary Name (typed or printed)

Julie I Glenn

Notary Name (signed)

Addendum # 1
eRFP # 20210093
Continuing Engineering Services for Utility Projects
July 23, 2021

Please make the following changes/modifications to the subject solicitation:

- 1Q.) In the eRFP doc, pages 2-4, includes a listing General Scope of Services and 6 identified areas.
- Does the City wish to have submitting firms provide a team (including subs) for all the services identified?
 - May a submitting Firm selected 1 or all identified areas to submit their responses and qualifications?
 - May a Firm submit as Prime and also be included as a sub to another team for same/similar services?
- 1A.) Submitting firms may utilize a team to provide the City with additional services. Submitting firms do not need to provide all the services requested and may submit for the services they include. A firm submitting as a Prime may also be included as a sub to another firm's team for same/similar services.**
- 2Q.) In the eRFP doc, page 5, Item 1.4, Schedule of Events, list 2 separate evaluation meetings prior to shortlist issued to City Council for approval.
- Are these two meetings open to the Public or Closed Door?
- 2A.) The two Evaluation Meetings are open to the Public.**
- 3Q.) In the eRFP docs, page 14, Items 6.3 Scoring Criteria. It is noted that scoring criteria for Technical/Proposal Factors total 1,000 points.
- Would the City provide a breakdown of the scoring criteria for each of the Mandatory Scored Questions?
- 3A.) No, the City does not provide a scoring breakdown to the firms. The City wants the firms to take each line item seriously and provide excellent answers to each line.**
- 4Q.) In the Mandatory Scored Questions Item #1, the mileage is broken out into 6 parameters.
- How are these "distances" scored?
- 4A.) The Distances are scored based on the 6 tiers we've laid out. The closer to City Hall a firm is, the more points they're eligible for. The further away a firm is the less points they're eligible for.**
- 5Q.) In the Mandatory Scored Questions #2, regarding Woman/Veteran/Minority Owned Business certification with the State of Florida
- What is the weighted scored for the submitting Firm to be W/V/MBE?
 - Is there a partial scoring or any consideration, if the submitting firm includes W/V/MBE firms as sub-consultants to the team?
- 5A.) The City does not provide scoring. Firms should consider each weighted criteria very important and try their best on each item. No, the Prime must hold the Certification, no scoring consideration is given if W/V/MBE subs are used.**
- 6Q.) Of the three (3) firms that will be awarded; can any of the firms do the implementation and construction of the design work?
- 6A.) No, this solicitation is for engineering services.**

Continuing Engineering Services for Utility Projects

7Q.) What Continuing Contracts will be issued for projects? Will this be to do the implementation and construction of the City's State and Federal projects when permitted?

7A.) **Please delete the following portion on Page 1 of the eRFP # 20210093 Document: "Continuing Contracts will be issued for projects with construction costs that are less than \$4 million dollars, ~~and will be used for the City's State and Federal projects when permitted.~~"** The City has retracted the words in Red and they are no longer a part of this eRFP.

NOTE: The Proposal Opening date has not been changed.

Acknowledged.

A handwritten signature in blue ink that reads "Brian Stahl".

Addendum # 2
eRFP # 20210093
Continuing Engineering Services for Utility Projects
July 27, 2021

Please make the following changes/modifications to the subject solicitation:

1Q.) Who are the incumbent companies that hold the current contracts that are being re-solicited here? Not addressed in the eRFP.

1A.) Kimley-Horn & Associates, Holtz Consulting Engineers, Inc. and CivilSurv Design Group, Inc.

2Q.) Will there be an interview, or will the award of the contract be based on the written response only? eRFP Section 1.4. Schedule of Events & 6. Proposal Evaluation.

2A.) In the eRFP Schedule it states an Evaluation Phase 1 and Phase 2 Meeting. Per CCNA Florida Statute "the agency shall conduct discussions with and may require public presentations by no fewer than three firms". To answer your question, yes we will hold interviews (in the form of discussions and/or presentations) in Phase 2 per Florida Statute.

3Q.) Is there a page limit for the written response? Not addressed in the eRFP.

3A.) There is not a page limit for written responses (proposals) HOWEVER it must be noted that firms should keep their proposals as lean as possible, providing what is requested.

4Q.) With the understanding of cone of silence during RFQ process, would the City provide with names the Selection (scoring) Committee Members?

4A.) No, the City will not provide the names of the Committee Members at this time.

NOTE: The Proposal Opening date has not been changed.

Acknowledged.



Addendum # 3
eRFP # 20210093
Continuing Engineering Services for Utility Projects
July 29, 2021

Please make the following changes/modifications to the subject solicitation:

- 1Q.) Regarding Item #8 on Mandatory Scored Questions: Design Support – Do you want these five to ten projects in Section F of the Form 330? Or are these to be separate projects from that?
1A.) These are separate projects from Form 330.
- 2Q.) On File #4, can we put in an Index or TOC as the first page in the file to indicate which page numbers for the required content for this file?
2A.) An index or Table of Contents is not mandatory but would be appreciated.
- 3Q.) Can you verify that on pg. 13 of the RFP that 4.3 refers to Attachment A and that 4.4 refers to Attachment B?
3A.) Yes that is correct. 4.3 refers to Attachment A and 4.4 refers to Attachment B.
- 4Q.) Per 4.2 of the RFQ, can you also please provide the Consultants General Information Worksheet? It is not in the RFQ package or on DemandStar.
4A.) The Consultants General Information Worksheet is included in Attachment D -Other Mandatory Documents however it is labeled Contractor's Questionnaire. Please fill out the Contractor's Questionnaire to satisfy this requirement. The City will revise this form in the future to properly match the requirement moving forward.
- 5Q.) Per 2.2.4, part C of the RFQ: required forms including Truth in Negotiation, Certificate and Affidavit, E-verify, Drug Free Workplace, PSL Location Form, Cone of Silence Form, Consultant Code of Ethics, Non-Collusion are not posted on DemandStar, nor attached to the RFQ. Can you please provide those forms or reference where we can download them?
5A.) All of the required forms stated in the eRFP and your question can be found in Attachment D – Other Mandatory Documents which has been uploaded on DemandStar.
- 6Q.) Please confirm, per p2.2.4, the City would like the Mandatory Scored Questions to be in both File #2 and File #4?
6A.) Yes that is correct. To clarify, the Mandatory Scored Questions Document must be uploaded as File #2 as an excel document ONLY, All required attachments requested for the MANDATORY SCORED QUESTIONS shall be uploaded into File #4.
- 7Q.) For the Mandatory Scored Questions Form, #3? Is this where the City would like to see our approach to the project(s)?
7A.) Yes, as well as a narrative containing information that indicates your firm's understanding of the requirements being requested and how your firm will meet those requirements etc.
- 8Q.) Are the anticipated projects strictly utility in nature?
8A.) Yes.

- 9Q.) For the Mandatory Scored Questions Form, #7: Is the City only looking for 330 forms Part I and II or do you prefer the full 330 package to include Part I and II, along with Section E, F, G and H?
- 9A.) **Yes , the full Form 330 package. Firms will need Part 1 and 2 and Sections E, F, G and H to detail their experience, resumes and similar projects.**
- 10Q.) Question 1) Section 1.4. Schedule of Events, page 5 of the RFP, cites details of the non-mandatory pre-proposal conference.
- Will any questions that are answered during the pre-proposal conference be sent out via addendum at a later date?
 - May the city detail the format of the pre-proposal conference?
- 10A.) **Yes, all questions from firms that are asked in the pre-proposal conference must be submitted in writing and later issued as an addendum. No, the City will not detail the format of the pre-proposal conference.**
- 11Q.) Is the "Contractor General Information Worksheet" the same as the "Contractor's Questionnaire" included in Attachment D - Other Mandatory Documents? Reference to Section 4.2 Consultant General Information.
- 11A.) **Yes it is.**
- 12Q.) Question #8 Design Support of Attachment B requests to provide 5 to 10 example projects within the last 5 years that your firm has done and describe what types of projects and services your firm provided. Is it the intent for these example projects to be in addition to the projects included in the SF330 form or as part of the SF330 form? Do projects included in the SF330 form need to be within the last 5 years? Reference to Attachment B - Mandatory Scored Questions, Question #8 - Design Support and Section 9 List of eRFP Attachments.
- 12A.) **Yes the intent is for those example projects for question #8 to be in addition to the projects included on the SF330. A firm can provide as many example projects as they'd like based on the various types of services that meet the scope of work of the RFP.**

NOTE: The Proposal Opening date has not been changed.

Acknowledged.



Addendum # 4
eRFP # 20210093
Continuing Engineering Services for Utility Projects
August 6, 2021

Please make the following changes/modifications to the subject solicitation:

1Q.) What level of support is the City looking for with regards to disaster recovery? Does the City have current contracts in place for Disaster Monitoring Services and / or FEMA Grant Administration / Financial Assistance?

1A.) The City is deleting the reference to Transportation and Storm water system.

2Q.) Can you please confirm if piggybacking is an option for contracting?

2A.) Yes, other public entities may piggyback this contract.

3Q.) Do you have to be one of the selected firms awarded in eRFP (Event) Number: 20210093 in order to bid on any future projects that will come as a result of this solicitation?

3A.) Yes you do, however the City always reserves the right to separately solicit projects as they deem necessary even if the scope of work falls within eRFP # 20210093's scope of work.

4Q.) Can the organization chart in the SF330 be 11x17?

4A.) Yes the organization chart may be 11x17.

5Q.) Regarding the answer to Question #12 on Addendum #3, we need further clarification. Is there a set number of projects you require in the SF330 Form?

5A.) The City requests no more than 10 projects.

NOTE: The Proposal Opening date has not been changed.

Acknowledged.





[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company
INFRASTRUCTURE SOLUTION SERVICES, LLC

Filing Information

Document Number L12000085582
FEI/EIN Number 45-5631196
Date Filed 06/29/2012
State FL
Status ACTIVE
Last Event LC ARTICLE OF
CORRECTION
Event Date Filed 07/31/2012
Event Effective Date NONE

Principal Address

7175 MURRELL ROAD
MELBOURNE, FL 32940

Changed: 01/29/2021

Mailing Address

7185 MURRELL ROAD
SUITE 101
MELBOURNE, FL 32940

Changed: 01/15/2018

Registered Agent Name & Address

KULKARNI, KIRAN V
7175 MURRELL ROAD
MELBOURNE, FL 32940

Name Changed: 01/23/2013

Address Changed: 01/29/2021

Authorized Person(s) Detail

Name & Address

Title MGRM

KULKARNI, KIRAN V

907 SPRING OAK CIRCLE
ORLANDO, FL 32828

Title MGRM

STAHL, BRIAN M
408 PORT ROYAL BLVD.
MELBOURNE, FL 32937

Annual Reports

Report Year	Filed Date
2019	02/06/2019
2020	01/16/2020
2021	01/29/2021

Document Images

01/29/2021 -- ANNUAL REPORT	View image in PDF format
01/16/2020 -- ANNUAL REPORT	View image in PDF format
02/06/2019 -- ANNUAL REPORT	View image in PDF format
01/15/2018 -- ANNUAL REPORT	View image in PDF format
02/13/2017 -- ANNUAL REPORT	View image in PDF format
03/27/2016 -- ANNUAL REPORT	View image in PDF format
01/06/2015 -- ANNUAL REPORT	View image in PDF format
04/18/2014 -- ANNUAL REPORT	View image in PDF format
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07/31/2012 -- LC Article of Correction	View image in PDF format
06/29/2012 -- Florida Limited Liability	View image in PDF format