

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).	NO	IF YES	
2	Completed and uploaded PSL Location Form	YES	IF YES	FILE #4
3	Is firm a minority business?	YES	IF YES	FILE #4
4	Is the firm incorporated? Yes--No If yes, in what state?	YES- FL	No	
5	List any judgements from lawsuits in the last five (5) years: (N/A is not an acceptable answer).	NO	IF YES	
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).	NO	IF YES	
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
9	Submitted a copy of their Insurance Certificate for the type and dollar amount of insurance they currently maintain.	YES	Yes	FILE #4
10	Completed and uploaded E-Verify Form	YES	Yes	FILE #4
11	Completed and uploaded Drug Free Workplace Form	YES	Yes	FILE #4
12	Completed and uploaded Consultant Code of Ethics	YES	Yes	FILE #4
13	Completed and uploaded Non-Collusion Affidavit	YES	Yes	FILE #4
14	Completed and uploaded Cone of Silence Form	YES	Yes	FILE #4
15	Completed and uploaded Truth-In Negotiation Form	YES	Yes	FILE #4
16	Submit W-9	YES	Yes	FILE #4
17	Completed and uploaded Mandatory Scored Questions	YES	Yes	FILE #2
18	Completed and uploaded Contractor General Information Worksheet.	YES	Yes	FILE #4

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 Attachments 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	<p><u>Please provide all documentation needed for Location.</u> <u>Proposer's Location</u> - 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</p>	0-60	Yes	FILE #4
2	<p><u>Woman/Veteran/Minority Owned Business</u> - 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.</p>	YES	Yes	FILE #4
3	<p><u>EXECUTIVE SUMMARY</u> - 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.</p>	YES	Yes	FILE #4
4	<p><u>GENERAL SCOPE OF SERVICES</u> - Provide a general description of the types of services your firm is capable of providing.</p>	YES	Yes	FILE #4
5	<p><u>PROGRAM MANAGEMENT SERVICES</u> - Provide a description of the program management services your firm can provide.</p>	YES	Yes	FILE #4
6	<p><u>PLANNING SUPPORT</u> - Describe the types of planning your firm can provide.</p>	YES	Yes	FILE #4
7	<p><u>QUALIFICATIONS & STAFF/PERSONNEL</u> - Please complete and attach Form 330 part I and II for evaluation of qualifications & staff/personnel.</p>	YES	Yes	FILE #3
8	<p><u>DESIGN SUPPORT</u> - 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.</p>	YES	Yes	FILE #4
9	<p><u>CONSTRUCTION ENGINEERING AND INSPECTION SERVICES</u> - Describe the CEI services your firm can provide.</p>	YES	Yes	FILE #4
10	<p><u>GRANT & LOAN FUNDING SUPPORT</u> - Provide examples of grants and loans your firm can provide.</p>	YES	Yes	FILE #4
11	<p><u>MISCELLANEOUS</u> - Provide a description of additional services your firm can provide.</p>	YES	Yes	FILE #4
12	<p><u>ABILITY TO MEET SCHEDULE AND BUDGET REQUIREMENTS</u> - Describe how you manage projects in order to meet schedule and budget requirements.</p>	YES	Yes	FILE #4

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> Continuing Engineering Services for Utility Projects		Port St. Lucie, Florida
2. PUBLIC NOTICE DATE 7/16/21	3. SOLICITATION OR PROJECT NUMBER eRFP #20210093	

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE Andrea Holtz, PE President		
5. NAME OF FIRM Holtz Consulting Engineers, Inc		
6. TELEPHONE NUMBER (772) 919-4905	7. FAX NUMBER (772) 919-4909	8. E-MAIL ADDRESS andrea.holtz@holtzconsulting.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.	<input checked="" type="checkbox"/>			Holtz Consulting Engineers, Inc	607 SW St. Lucie Crescent Suite 103 Stuart, FL 34994	Prime Consultant Civil / Environmental Engineering
b.			<input checked="" type="checkbox"/>	Betsy Lindsay, Inc	7997 SW Jack James Drive Stuart, FL 34997	Survey and Easement Services
c.			<input checked="" type="checkbox"/>	NorthStar Geomatics, Inc.	617 NW Baker Road Stuart, FL 34994	Survey and Easement Services
d.			<input checked="" type="checkbox"/>	Hillers Electrical Engineering, Inc	23257 State Road 7 Suite 100 Boca Raton, FL 33428	Electrical Engineering
e.			<input checked="" type="checkbox"/>	C&W Engineering, Inc.	6903 Vista Parkway N. Suite 10 West Palm Beach, FL 33411	Electrical & Mechanical Engineering
f.			<input checked="" type="checkbox"/>	Andersen Andre Consulting Engineers	834 SW Swan Avenue Port St. Lucie, FL 34983	Geotechnical Engineering and Testing Services
g.			<input checked="" type="checkbox"/>	Ardaman & Associates, Inc.	8008 S. Orange Avenue Orlando, FL 32809	Hydrogeological Services
h.			<input checked="" type="checkbox"/>	McNabb Hydrogeologic Consulting, Inc.	4600 Military Trail Suite 116 Jupiter, FL 33458	Hydrogeological Services
i.			<input checked="" type="checkbox"/>	McCafferty Brinson Consulting, LLC	633 S. Andrews Avenue Suite 402 Fort Lauderdale, FL 33301	Expertise Water Treatment Engineering
j.			<input checked="" type="checkbox"/>	Hazen and Sawyer	2101 NW Corporate Blvd. Suite 301 Boca Raton, FL 33431	Expertise Wastewater Treatment Engineering

k.		✓	Giffels-Webster Engineers, Inc.	900 Pine Street Suite 225 Englewood, FL 34223	Vacuum Sewer
l.		✓	Wekiva Engineering, LLC	711 N. Orange Ave. Suite A Winter Park, FL 32789	Structural Engineering
m.		✓	Underdog Utility Detection, LLC	3524 Lone Pine Road Delray Beach, FL 33445	Underground Utility Locations

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

KEY PROPOSED PROJECT TEAM PERSONNEL

FIRM/TEAM ORGANIZATIONAL CHART



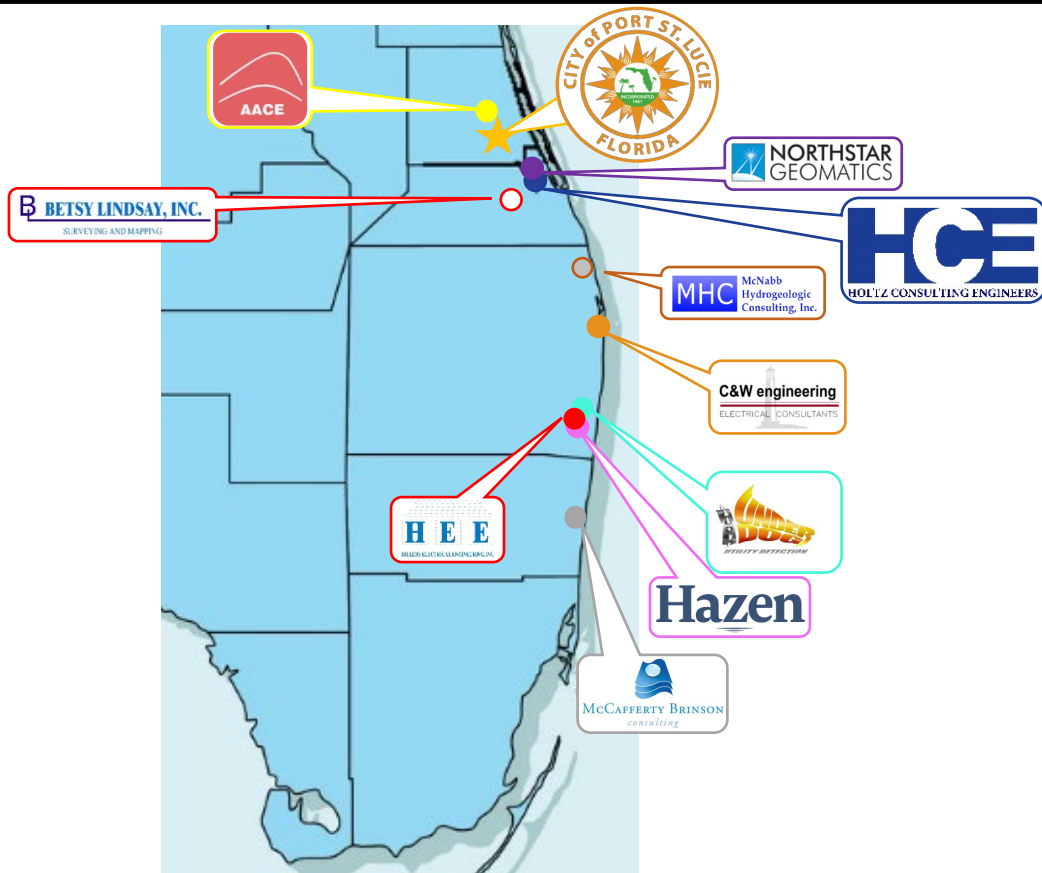
QA/QC

David Holtz, PE, BCEE ●
Lawrence Lardieri, PE ●

Client Service Manager: Christine Miranda, PE ●
Project Manager: Curtis Robinson, PE ●

Senior Engineers Benjamin Fecko, PE ● David Xavier, PE ● Stephen Fowler, PE, CGC ●	Project Engineers Matthew Paymer, PE ● Harrison Barron, PE ● Taylor Lenney, EI ● Cameron Kenyon, EI ●	Designer/Drafters Russell Ryan ● Felix Granados ●	Grant Writing and Funding Analysis Andrea Holtz, PE ●	Construction Inspection Linwood Lee ● Ray Hernandez ● Art Xaros ● Craig Ford ●
Program Management Lawrence Lardieri, PE ● David Holtz, PE, BCEE ●				

Survey Betsy Lindsay ○ Northstar Geomatics ●	Hydrogeology McNabb Hydrogeologic Consulting ● Ardaman & Associates	SUBCONSULTANTS	Additional Engineering Expertise McCafferty Brinson ● Hazen ●	Underground Utility Locating Underdog ●
Electrical & Mechanical Engineering Hillers Electrical Engineering ● C&W Engineering ●	Structural Engineering Wekiva Engineering	Vacuum Sewers Giffels-Webster Engineers	Geotechnical Engineering Andersen Andre Consulting Engineers ●	



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Christine Miranda, PE		Client Service Manager		a. TOTAL 22	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
Holtz Consulting Engineers, Inc.		Stuart, Florida			
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
BS Bioresource Engineering, 1999 Rutgers University			Professional Engineer Florida, Civil Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Florida Water Environment Association – Florida Select Society of Sanitary Sludge Shovelers					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Glades-Tradition Reuse Water Main Project (Port St. Lucie, FL)	Ongoing	TBD
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves. Specific Role: Client Service Manager		
Design Services for Upper Floridan Aquifer Supply Well F-19 (Port St. Lucie, FL)	Ongoing	TBD
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant. The project design includes the new well, a well head with an 1,840 gpm vertical turbine well pump, a 250 kW LP Gas Standby Generator, a concrete block building, concrete driveway, fencing, and other site improvements. As part of this project HCE will be connecting to a new raw water main and fiber optic cable being constructed by the City from the JEA Water Treatment Plant and across Interstate 95 to the site. Coordination is required between HCE and the City on the raw water main project due to limited site access for construction mobilization and time constraints to get the well into service. HCE is also providing permitting with the Florida Department of Environmental Protection and the South Florida Water Management District for the new well. Specific Role: Client Service Manager		
Floresta Drive Utility Adjustment Plans (Port St. Lucie, FL)	2020	2021
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE provided design engineering services for the relocation of water mains, low pressure force mains, and force mains within the City of Port St. Lucie along approximately three miles of Floresta Drive from Elkcam Waterway to Prima Vista Boulevard. As part of this project, HCE prepared drawings to depict the proposed utility relocations in accordance with FDOT and City of Port St. Lucie Standards. Utility locations are being performed as a response to proposed FDOT widening of the roadway, and new stormwater improvements. Specific Role: Project Manager		
Boca iSIP Projects Neighborhood WM FM Replacements (Boca Raton, FL)	Ongoing	Ongoing
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE was selected by the City of Boca Raton to complete the utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. HCE has completed the design and permitting of one of the Country Club Village and SW 18th St neighborhoods, which included a 16-inch water main under Interstate-95. This first two neighborhood are now under construction. Engineering Fees to Date: \$521,713.29 Specific Role: Project Manager		
City of Stuart Water Main Replacement Project and FDEP SRF Funding (Stuart, FL)	2018	2018
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm Project included design, permitting, and Florida Department of Environmental Protection (FDEP) State Revolving Fund funding assistance, of approximately 59,000 linear feet of 6-inch through 12-inch water mains in existing residential neighborhoods and commercial developments for the City of Stuart. The new mains will replace inadequately sized mains, looped dead ends, old mains, and increase fire protection for the City. The mains are located in City, County, and Florida Department of Transportation right-of-ways. Construction Cost: \$5,039,297 Specific Role: Project Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Curtis D. Robinson, PE		Project Manager		a. TOTAL	b. WITH CURRENT FIRM
				18	12
15. FIRM NAME AND LOCATION (City and State)					
Holtz Consulting Engineers, Inc.		Stuart, Florida			
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS Civil Engineering, 2001 MS Engineering Management, 2003 Missouri University of Science and Technology			Professional Engineer Florida, Civil Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Certified Bentley WaterCAD Master Modeler					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Melaleuca Boulevard Force Main (Port St. Lucie, FL)	2021	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE HCE is currently serving as the project manager for the design, permitting, bidding, and construction of approximately 6,600 linear feet of new force main. The new force main is being designed to convey wastewater from the City's Lift Station SP-40 along SE Melaleuca Boulevard to the west, where it will ultimately tie into an existing 16-inch force main beneath the southbound travel lanes of Lennard Road. As part of this project, HCE is performing a hydraulic evaluation of the existing force main system serving Lift Station Nos. SP-16, SP-40, and SP-42 to determine the appropriate size diameter for the new force main. Specific Role: Project Manager		
b.	Glades-Tradition Reuse Water Main Project (Port St. Lucie, FL)	Ongoing	TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves. Specific Role: Project Manager		
c.	Upper Floridan Aquifer Supply Well F-19 (Port St. Lucie, FL)	2021	TBD
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant. The new well will not increase the flow to the plant, but rather provide the City operational flexibility to conduct maintenance on the other wells serving the plant. The project design includes the new well, a well head with an 1,840 gpm vertical turbine well pump, a 250 kW LP Gas Standby Generator, a concrete block building, concrete driveway, fencing, and other site improvements. As part of this project HCE will be connecting to a new raw water main and fiber optic cable being constructed by the City from the JEA Water Treatment Plant and across Interstate 95 to the site. Coordination is required between HCE and the City on the raw water main project due to limited site access for construction mobilization and time constraints to get the well into service. HCE is also providing permitting with the Florida Department of Environmental Protection for the new well Specific Role: Project Manager		
d.	MCU Tropical Farms and North WWTPs RAS/WAS Pump Stations (Martin County, FL)	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE HCE provided design, permitting, contractor procurement, and services during construction for the replacement of the existing Return Activated Sludge (RAS)/Waste Activated Sludge (WAS) Pump Station at the North WWTP, and replacement of two RAS pumps and the addition of two WAS pumps at the Tropical Farms WWTP. Specific Role: Senior Project Manager		
e.	SUA Water, Reclaimed Water, and Force Main Modeling (Palm Beach Gardens, FL)	2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE HCE developed a potable water distribution system, a reclaimed water, and wastewater force main transmission system hydraulic models for the SUA. All models were completed using Innovyze InfoWater hydraulic modeling software. The potable water model includes both large and small diameter water mains, as well as hydrants, and incorporates water billing data, SCADA data, and record drawing information. The reclaimed water model was updated and provided SUA with alternative solutions to supply higher pressures at the system extremities. The force main model includes every force main and lift station that directly pumps to the PGA WWTP. Specific Role: Senior Project Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Benjamin Fecko, PE	13. ROLE IN THIS CONTRACT Senior Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Holtz Consulting Engineers, Inc. Stuart, Florida			
16. EDUCATION (Degree and Specialization) BS Civil Engineering, 2004 MS Civil Engineering, 2006 The Pennsylvania State University		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer Florida, Civil Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Engineering Society, Treasure Coast Chapter President, Treasure Coast State Director			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Glades-Tradition Reuse Water Main Project (Port St. Lucie, FL)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) TBD
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves. Specific Role: Project Manager			
(1) TITLE AND LOCATION (City and State) Upper Floridan Aquifer Supply Well F-19 (Port St. Lucie, FL)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) TBD
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant. The new well will not increase the flow to the plant, but rather provide the City operational flexibility to conduct maintenance on the other wells serving the plant. The project design includes the new well, a well head with an 1,840 gpm vertical turbine well pump, a 250 kW LP Gas Standby Generator, a concrete block building, concrete driveway, fencing, and other site improvements. As part of this project HCE will be connecting to a new raw water main and fiber optic cable being constructed by the City from the JEA Water Treatment Plant and across Interstate 95 to the site. Coordination is required between HCE and the City on the raw water main project due to limited site access for construction mobilization and time constraints to get the well into service. HCE is also providing permitting with the Florida Department of Environmental Protection for the new well. Specific Role: Engineer			
(1) TITLE AND LOCATION (City and State) City of Stuart Reverse Osmosis WTP (Stuart, FL)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) TBD
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer responsible for the design of the stormwater management, site work, and yard piping for a 1.0 MGD upgrade to the City of Stuart Water Treatment Facility. The project also included a design of an approximate one-mile 12" RO concentrate force main from the water treatment plant to a deep well injection at the wastewater plant. The site work consisted of new driveways, fencing, stormwater management including two rain gardens, and yard piping to connect the new and existing facilities. The existing site has been in operation since the 1960's and extensive field work and research was required to determine conflicts for the pro-posed yard piping. Permitting was required through FDEP for the stormwater management and the City of Stuart for the site plan and associated work. Specific Role: Project Engineer			
(1) TITLE AND LOCATION (City and State) Boynton Beach Reclaimed Water Expansion (Boynton Beach, FL)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is assisting the City of Boynton Beach, as part of a progressive design build team, with the expansion of the existing reclaimed water distribution system to serve additional large use customers within the Utilities service area. The work includes preparation of engineering plans for the expansion of specified segments of the reclaimed water distribution system. Permits from the Town of Gulfstream, FDOT, Palm Beach County, FDEP Environmental Resource Permit, Army Corps of Engineers, FEC Railroad, and FDEP will be obtained for this project. Engineering Cost: \$131,830 Specific Role: Project Manager			
(1) TITLE AND LOCATION (City and State) Port St. Lucie Boulevard Utility Adjustment Plans (Port St. Lucie, FL)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) TBD
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is providing engineering design and permitting assistance services to American Consulting Professionals for the preparation of water and sewer utility adjustment engineering plan sheets for three projects encompassing approximately 2.3 miles of Port St. Lucie Blvd. The projects involve relocation of existing water mains, force mains, low-pressure mains, and appurtenances to accommodate the widening of the roadway. Special consideration was necessary to keep the City's utility system in operation during the relocations. Two projects were administered through the Florida Department of Transportation (FDOT) while the third was administered by the City of Port St. Lucie. HCE is providing full-time services during construction for the City's portion of the project. Engineering Cost: \$152,100 Specific Role: Project Engineer			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrea P. Holtz, PE		13. ROLE IN THIS CONTRACT Grant Writing and Funding Analysis		14. YEARS EXPERIENCE	
				a. TOTAL 35	b. WITH CURRENT FIRM 15
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida					
16. EDUCATION <i>(Degree and Specialization)</i> BS Environmental Engineering, 1986 University of Florida			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida, Environmental Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	PSLUSD Grant Writing Services (City of Port St. Lucie, FL)	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE HCE has assisted the City of Port St. Lucie with identifying and evaluating projects for grant funding consideration, grant writing and proposal development, and grant compliance assistance. HCE serves as the liaison between the City and grant agencies including the Florida Department of Economic Opportunity (FDEO) for the Critical Facility Hardening Grant Program and the General Infrastructure Grant Program and with the FEMA Hazard Mitigation Grant Program. Specific Role: Project Director		
b.	Floresta Drive Utility Adjustment Plans (City of Port St. Lucie, FL)	2020	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE HCE provided design engineering services for the relocation of water mains, low pressure force mains, and force mains within the City of Port St. Lucie along approximately three miles of Floresta Drive from Elkcarn Waterway to Prima Vista Boulevard. As part of this project, HCE prepared drawings to depict the proposed utility relocations in accordance with FDOT and City of Port St. Lucie Standards. Utility locations are being performed as a response to proposed widening of the roadway, and new stormwater improvements. Specific Role: QA/QC		
c.	Boca iSIP Projects Neighborhood WM FM Replacements (Boca Raton, FL)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE HCE was selected by the City of Boca Raton to complete the utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. HCE has completed the design and permitting of one of the Country Club Village and SW 18th St neighborhoods, which included a 16-inch water main under Interstate-95. The first two neighborhoods are now under construction and the third neighborhood is currently in design. Engineering Fees to Date: \$521,713.29 Specific Role: Project Director		
d.	City of Stuart Water Main Replacement Project and FDEP SRF Funding (Stuart, FL)	2018	2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project included design, permitting, and Florida Department of Environmental Protection (FDEP) State Revolving Fund funding assistance, of approximately 59,000 linear feet of 6-inch through 12-inch water mains in existing residential neighborhoods and commercial developments for the City of Stuart. The new mains will replace inadequately sized mains, looped dead ends, old mains, and increase fire protection for the City. The mains are located in City, County, and Florida Department of Transportation right-of-ways. Construction Cost: \$5,039,297 Specific Role: Project Director		
e.	WPB 26th St. & Flagler Dr. Stormwater Improvements - Phase 1 (West Palm Beach, FL)	Ongoing	TBD
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE HCE is responsible for the surveying, closed-circuit television pipe evaluation, design, permitting, and construction administration of the replacement of approximately 710 linear feet of water and approximately 1,050 linear feet of force main along the 26th St corridor between Poinsettia Ave and Currie Park. Additionally, this project will include the slip-lining of approximately 1,120 linear feet of 48-inch gravity sewer that flows to LS #23, which then pumps directly to the ECRWRF. Roadway layout and stormwater improvements will also be completed as part of this project. Specific Role: Client Service Manager / Engineering Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David F. Holtz, PE, BCEE	13. ROLE IN THIS CONTRACT QA/QC Manager	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 15

15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc.	Jupiter, Florida
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16. EDUCATION <i>(Degree and Specialization)</i> BS Environmental Engineering, 1985 ME Environmental Engineering, 1987 University of Florida	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida, Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Board Certified Environmental Engineer by American Academy of Environmental Engineers

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Glades-Tradition Reuse Water Main Project (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> TBD

a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	[✓] Check if project performed with current firm
HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves. Specific Role: QA/QC Manager	

(1) TITLE AND LOCATION <i>(City and State)</i> Seacoast Utility Authority PGA WWTP NRCY Pump Station, Blower Building, and Electrical Modifications (Palm Beach Gardens, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> 2020

b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	[✓] Check if project performed with current firm
HCE provided survey, preliminary and final design, permitting, bidding, and construction administration services for Seacoast Utility Authority to demolish existing buildings at their wastewater treatment plant, construct a new blower building, including the installation of six new blowers (two turbo and four centrifugal), replace the existing nitrified recycle pump station, and improve various electrical components at the site including VFDs, motor control centers, and lighting. This project also includes the replacement of an internal recycle pump station consisting of three chopper-style pumps. This project serves to replace and upgrade existing plant infrastructure to increase operational flexibility, decrease electric power consumption, and maintain reliable production of reclaimed water. Specific Role: QA/QC Manager	

(1) TITLE AND LOCATION <i>(City and State)</i> East Central Regional Water Reclamation Facility Board (West Palm Beach, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing

c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	[✓] Check if project performed with current firm
HCE is a general engineering consultant to the East Central Regional Water Reclamation Facility (ECRWRF) Board, which manages the 70-mgd ECRWRF. Mr. Holtz has served in this capacity since the Board's inception in 1992. He has successfully assisted in the management and operation of the ECRWRF and implementation of numerous improvements to and expansion of the facility. His responsibilities include implementation of capital improvements projects, regulatory support, planning and budgeting assistance and assisting with operations and maintenance. Specific Role: Client Service Manager	

(1) TITLE AND LOCATION <i>(City and State)</i> MCU Western Force Main and Water Main Extension Project (Martin County, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD

d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	[✓] Check if project performed with current
HCE is providing design, modeling, and permitting services for the addition of approximately 29,800 linear feet of water and 36,000 linear feet of wastewater mains necessary to include new customers, currently served by individual septic tanks, in the service area located along State Road 714 between Florida's Turnpike and Interstate 95. The project will connect these Western Utility Extension users to the MCU wastewater transmission system upstream of existing Lift Station No. 540. HCE has designed upgrades to existing Lift Station No. 540 to repump wastewater flow from the Western Corridor Extension to the Martin Downs In-line Booster Pump Station. Specific Role: QA/QC Manager	

(1) TITLE AND LOCATION <i>(City and State)</i> SUA Water, Reclaimed Water, and Force Main Modeling (Palm Beach Gardens, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> N/A

e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	[✓] Check if project performed with current
HCE developed a potable water distribution system, a reclaimed water, and wastewater force main transmission system hydraulic models for the SUA. All models were completed using Innovyze InfoWater hydraulic modeling software. The potable water model includes both large and small diameter water mains, as well as hydrants, and incorporates water billing data, SCADA data, and record drawing information. The reclaimed water model was updated and provided SUA with alternative solutions to supply higher pressures at the system extremities. The force main model includes every force main and lift station that pumps to the PGA WWTP. Specific Role: QA/QC Manager	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Larry Lardieri, PE		13. ROLE IN THIS CONTRACT Senior Engineer & QA/QC		14. YEARS EXPERIENCE	
				a. TOTAL 46	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida					
16. EDUCATION <i>(Degree and Specialization)</i> BS Civil Engineering and Construction Technology - Temple University			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida, Civil Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> <i>“Reuse the Resource”, from Proceedings of the American Water Works Association, 2004 Water Sources Conference, Austin, Texas, January 11-14, 2004. (Paper dealing with reclaimed water project)</i>					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Miami-Dade County Consent Decree Program (Miami-Dade Water and Sewer Department, Miami-Dade County, FL)	2020	Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [] Check if project performed with current firm a. Larry served as chief engineer for the Consent Decree (CD) Program Manager/Construction Manager (PMCM) for MDWASD. The major purpose of this program is to implement (design, permit, and construct) plans for continued improvement to the Miami-Dade Water and Sewer Department Wastewater Collection and Transmission System (WCTS) and Wastewater Treatment Plants (WWTP) as mandated by the United States Environmental Protection Agency (EPA). There are eighty-one (81) original Consent Decree projects and one hundred and seventy-two (172) independent projects in the CD Program; total program cost is \$1.965B. Mr. Lardieri, as the PMCM Chief Engineer, provided technical input / support coordination; reviews and comments on project Technical Memorandums, BODRs, wastewater collection and transmission system modeling reports, design consultant project design submittals/deliverables, permitting documents and agency RFIs, etc.; assists by providing technical input for technical issues/RFIs that arise during project construction. Project included FMs from 8" to 72" in size; pump stations ranging from 0.3 MGD to more than 20.0 MGD in size. Specific Role: Chief Engineer from 2015-2020		
MCU Western Force Main and Water Main Extension Project (Martin County, FL)	2021	Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm b. HCE is providing design, modeling, and permitting services for the addition of approximately 29,800 linear feet of water and 36,000 linear feet of wastewater mains necessary to include new customers, currently served by individual septic tanks, in the service area located along State Road 714 between Florida's Turnpike and Interstate 95. The project will connect these Western Utility Extension users to the MCU wastewater transmission system upstream of existing Lift Station No. 540. HCE has designed upgrades to existing Lift Station No. 540 to repump wastewater flow from the Western Corridor Extension to the Martin Downs In-line Booster Pump Station. Specific Role: QA/QC		
Boca iSIP Projects Neighborhood WM FM Replacements (Boca Raton, FL)	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm c. HCE was selected by the City of Boca Raton to complete the utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. HCE has completed the design and permitting of one of the Country Club Village and SW 18th St neighborhoods, which included a 16-inch water main under Interstate-95. This neighborhood is now under construction, and HCE is at the 60% design phase of the second neighborhood. Engineering Fees to Date: \$521,713.29 Specific Role: QA/QC		
City of Stuart Reverse Osmosis WTP (Stuart, FL)	2021	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm d. Project Engineer responsible for the design of the stormwater management, site work, and yard piping for this 1.0 MGD upgrade to the City of Stuart Water Treatment Facility. The project also included a design of an approximate one-mile 12" RO concentrate force main from the water treatment plant to a deep well injection at the wastewater plant. The site work consisted of new driveways, fencing, stormwater management including two rain gardens, and yard piping to connect the new and existing facilities. The existing site has been in operation since the 1960's and extensive field work and research was required to determine conflicts for the proposed yard piping. Permitting was required through FDEP for the stormwater management and the City of Stuart for the site plan and associated work. Specific Role: QA/QC		
SUA Emergency Lift Station No. 88 Force Main Replacement (Palm Beach Gardens, FL)	2021	2021
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm e. Survey, design, permitting, and construction of approximately 1,500 LF of 8" force main along Hood Road and the rehabilitation of Lift Station No. 88 including cleaning and recoating of the wet well, replacing the base plates, base elbows, riser piping, and all above-grade valves and piping. Also included is the disassembly and removal of the temporary force main and all restoration. Specific Role: Project Engineer		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen R. Fowler, PE	13. ROLE IN THIS CONTRACT Senior Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 18	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> BS Environmental Engineering, 2003 University of Florida		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida, Civil Engineering Certified General Contractor, Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Design-Build Institute of America - Member			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Hood Road Floridan Raw Water Main Installation (Palm Beach Gardens, FL)	2018	2018
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm Project included the design, permitting, bidding, and construction of a new 36-inch raw water main along Hood Road from the Hood Road WTP, west to the Westwood Lakes development for the proposed Upper Floridian Wellfield in the Alton development. Raw water main is to be installed via both open-cut methods and horizontal directional drilling methods. Additionally, 4,200 feet of 2-inch HDPE fiber-optic conduit with pull boxes will be installed parallel to the proposed raw water main. Specific Role: Project Engineer		
RBUSD Aerial Force Main Replacement Program Riviera Beach, FL	Ongoing	Ongoing
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm This project included the replacement of the existing M-Canal and C-17 force main aerial crossings, which were at the end of their useful life. HCE is responsible for the design, permitting, and bidding of a new 42-inch subaqueous HDPE force main under the M-Canal and the installation of a new 12-inch subaqueous HDPE force main under the C-17 Canal. Both mains will be installed via horizontal directional drill method and connect to the existing force main on either side of the canal. Specific Role: Project Manager		
SUA PGA National Force Main Slip Lining Palm Beach Gardens, FL	2017	2017
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm This project included surveying and engineering services for the design, bidding, and construction of approximately 4,300 linear feet of new 8-inch DIP force main within an existing 12-inch DIP force main within PGA National via slip-lining methods from Lift Station No.76, along Avenue of the Masters, Avenue of the Champions, and Tournament Boulevard to Lift Station No. 68. Engineering Fee: \$49,722 Specific Role: Project Manager		
Palm Beach County Lift Station Rehabilitation Program Palm Beach County, FL	Ongoing	TBD
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE is responsible for the rehabilitation of 60 of Palm Beach County's wastewater pump stations. This effort has consisted of assessment and prioritization of the County's lift stations based on condition and risk of failure, followed by a variety of rehabilitation and upgrades to the sewage pumping system. As part of this effort, civil, mechanical, and electrical items have been assessed and identified for replacement in order to meet PBC minimum design standards where possible. HCE has provided survey, design, and bidding assistance in two phased bid packages, as well as assistance with shop drawing review and building department permitting during the construction phase. Specific Role: Project Manager		
PBCWUD System-wide Wellfield Improvements Phase 1 Palm Beach County, FL	Ongoing	Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm This project includes the design and permitting of two (2) new surficial aquifer water production wells, the rehabilitation of seven (7) existing surficial aquifer production wells, and the abandonment of one (1) existing surficial well for the Palm Beach County Water Utilities Department Water Treatment Plant Systems 3 and 9. HCE also provided bidding services and is currently providing construction management and inspection services during construction. HCE is responsible for the civil and mechanical engineering of the well head, buried piping system, and well site plan. Specific Role: Project Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Matthew Paymer, PE		Master Modeler/Project Engineer		a. TOTAL 6	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida					
16. EDUCATION <i>(Degree and Specialization)</i> BS Environmental Engineering, 2015 University of Florida			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer Florida, Civil Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> "The Maintenance of Change: Developing Electronic Tools for a Dynamic Sustainable Asset Management System" – Published in the Florida Water Resources Journal, May 2018 WaterGEMS Master Modeler and Innovzye Certified Modeler					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> Melaleuca Boulevard Force Main (Port St. Lucie, FL)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> 2021
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE is provided professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for approximately 6,600 linear feet of new force main. The new force main will convey wastewater from the City's Lift Station SP-40 along SE Melaleuca Boulevard to the west, where it will ultimately tie into an existing 16-inch force main beneath the southbound travel lanes of Lennard Road. As part of this project, HCE is performing a hydraulic evaluation of the existing force main system serving Lift Station Nos. SP-16, SP-40, and SP-42 to determine the appropriate force main diameter. The new force main is being designed to be constructed of HDPE and be installed via the horizontal direction drill method. Specific Role: Master Modeler		
(1) TITLE AND LOCATION <i>(City and State)</i> Glades-Tradition Reuse Water Main Project (Port St. Lucie, FL)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> TBD
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves. Specific Role: Master Modeler		
(1) TITLE AND LOCATION <i>(City and State)</i> Naranja LPFM and FM – Phase 1 & 2 (Port St. Lucie, FL)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE developed a low-pressure wastewater force main transmission system hydraulic model for the City of Port St. Lucie in the River Park area contributing to Lift Station NP-01. The model was completed using Innovzye InfoWater hydraulic modeling software and utilized GIS data from the City to simulate the operation of STEP systems and grinder pump stations on the low-pressure force mains. The was experiencing wet weather backups as a result of the low-pressure force mains discharging to gravity sewers. The City wished to extend these low pressure force mains to connect directly to NP-01, removing flow from the existing gravity sewers. The model and summary report confirmed pipe sizes for the low-pressure force main extensions. Specific Role: Master Modeler		
(1) TITLE AND LOCATION <i>(City and State)</i> SUA Water, Reclaimed Water, and Force Main Modeling (Palm Beach Gardens, FL)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> N/A
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE developed a potable water distribution system, a reclaimed water, and wastewater force main transmission system hydraulic models for the SUA. All models were completed using Innovzye InfoWater hydraulic modeling software. The potable water model includes both large and small diameter water mains, as well as hydrants, and incorporates water billing data, SCADA data, and record drawing information. The reclaimed water model was updated and provided SUA with alternative solutions to supply higher pressures at the system extremities. The model includes every force main and lift station that pumps to the PGA WWTP. Specific Role: Master Modeler		
(1) TITLE AND LOCATION <i>(City and State)</i> MCU Western Force Main and Water Main Extension Project (Martin County, FL)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm HCE provided design, modeling, and permitting services for the addition of approximately 29,800 linear feet of water and 36,000 linear feet of wastewater mains necessary to include new customers, currently served by individual septic tanks, in the service area located along State Road 714 between Florida's Turnpike and Interstate 95. The project included modeling to determine the main sizing required to connect wastewater flow from the Western Utility Extension to the existing Martin County Utilities wastewater transmission system. HCE also determined the expected peak-hour wastewater flows and connection pressures of the Western Utility Extension entities. Additionally, the project determined the impacts to, and associated improvements required for, the Martin County Utilities wastewater force main transmission system resulting from the addition of peak-hour wastewater flow from the Western Utility Extension. Specific Role: Master Modeler		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Harrison Barron, PE	13. ROLE IN THIS CONTRACT Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> BS Environmental Engineering, 2015 University of Florida		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer, Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> NASSCO Certified Pipeline and Manhole Inspector			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> LRD Loxahatchee River Road IQ Main and Force Main (Jupiter, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> 2019
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE assisted the Loxahatchee River District with the installation of a new force main and reclaimed water main along Loxahatchee River Road. The project consisted of approximately 3,200 linear feet of new 4-inch PVC force main and 150 linear feet of 2-inch PVC low-pressure force main installed via open-cut methods. The portion of the mains that crossed underneath a tributary within the Northwest Fork of the Loxahatchee River were installed via horizontal directional drilling (HDD) methods. This included approximately 400 linear feet of 4-inch and 2-inch HDPE force main and 400 linear feet of 16-inch HDPE reclaimed water main that was constructed concurrently. The new force main provided a backup and alternative routing of wastewater flows in the sewage conveyance system. The proposed reclaimed water main replaced the existing aerial crossing pipe at the end of its useful life. HCE provided surveying, engineering design, permitting, bidding assistance, and services during construction related to the force main extension and reclaimed water project. Construction Cost: \$458,486 Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> Boca iSIP Projects Neighborhood WM FM Replacements (Boca Raton, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE was selected by the City of Boca Raton to complete the utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. HCE has completed the design and permitting of one of the Country Club Village and SW 18th St neighborhoods, which included a 16-inch water main under Interstate-95. This neighborhood is now under construction and HCE is in the 60% design phase of the second neighborhood. Engineering Fees to Date: \$521,713.29 Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> LRD Jupiter Plantation Force Main Replacement (Jupiter, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2016
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project included the utility locating, surveying, geotechnical investigation, design, permitting, bidding and services during construction for the replacement of 1,100 linear feet of 4-inch cast iron force main from Lift Station #13 to the discharge connection at the manhole on Center Street west of Plantation Way. Installation of the new force main was both via open-cut and horizontal direction drill methods. This project included work with the Palm Beach County Right-of-Way. The design and construction of this project is complete. Total Engineering Fee: \$28,882.00 Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> SUA PGA National Force Main Slip Lining (Palm Beach Gardens, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i> 2017
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project included surveying and engineering services for the design, bidding, and construction of approximately 4,300 of new 8-inch DIP force main within an existing 12-inch DIP force main within PGA National via slip-lining methods from Lift Station No.76, along Avenue of the Masters, Avenue of the Champions, and Tournament Boulevard to Lift Station No. 68. Construction Cost: \$49,722 Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> SUA Surficial Aquifer Production Well Replacement & Rehabilitation (Palm Beach Gardens, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Utility Authority with a phased, multi-year program of replacing aged surficial aquifer production wells. HCE has assisted with the replacement of 33 wells in multiple phases. Each phase included separate design documents, permits from the Palm Beach County Health Department and the South Florida Water Management District, and bidding and construction assistance services. The wells are being constructed by multiple contractors. The replacement wells are generally located in the same easements or on the same sites as the original wells. These projects included hydraulic modeling of the raw water system, screened and open-hole wells, new well heads and raw water mains, and associated electrical and instrumentation. Specific Role: Project Engineer		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Taylor Lenney, EI	13. ROLE IN THIS CONTRACT Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 3	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> BS Chemical Engineering, 2017 MS Environmental Engineering, 2018 Clarkson University		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Engineer Intern Florida, Civil Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. WPB 26th St. & Flagler Dr. Stormwater Improvements - Phase 1 (West Palm Beach, FL)	Ongoing	TBD
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is responsible for the surveying, closed-circuit television pipe evaluation, design, permitting, and construction administration of the replacement of approximately 800 linear feet of water and approximately 1,040 linear feet of force main along the 26th St corridor between Poinsettia Ave and Currie Park. Additionally, this project will include the slip-lining of approximately 730 linear feet of 48-inch gravity sewer that flows to LS #23, which then pumps directly to the ECRWRF. Roadway layout and stormwater improvements will also be completed as part of this project. Specific Role: Project Engineer Project Cost: \$135,684.00		
b. Port St. Lucie Blvd. Utility Relocations (City of Port St. Lucie, FL)	2020	TBD
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer for the design of water and sewer utility relocations over a stretch of 1.8 miles of Port St. Lucie Blvd. in the City of Port St. Lucie, FL. The relocation of utilities was required in coordination for the proposed widening of the roadway and associated drainage improvements along the same route from Parr Drive to Darwin Blvd. The force main and water mains to be relocated varied in size from 2-in to 16-in diameter. Specific Role: Project Engineer Project Cost: \$30,000.00 (Design)		
c. LRD Island Country Estates Low Pressure Force Main System (Jupiter, FL)	2020	2020
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE provided engineering services for the design, permitting, bidding, and construction administration of a septic-to-sewer conversion project in the Island Country Estates neighborhood of Jupiter, FL. This project involves connecting thirty-eight existing residences currently on septic systems to LRD's sewer system. The neighborhood will be served by a low-pressure system, including approximately 5,200 linear feet of 2 inch PVC/HDPE low-pressure force main and individual services to each home. This project includes connection of the new mains to an existing live 2.5 inch low pressure force main on the west side of Loxahatchee River Road. Specific Role: Project Engineer Project Cost: \$ 442,177.00		
d. MCU Wastewater Treatment Plants Conditions and Observation and Report (Stuart, FL)	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE provides professional engineering services for Martin County Utilities (MCU) related to conducting site conditions observations and report preparation documenting the findings at the Tropical Farms and North Wastewater Treatment Plants, the Martin Downs and Dixie Park Master Inline Booster Pump Stations, and the Vista Salerno Reclaimed Water Pump Station. The assessments are made solely on extensive visual observations at the plants and the report provides a list of identified deficiencies that could be improved upon to enhance the operation and safety of MCU facilities. This is a recurring project that HCE completes each year. Specific Role: Project Engineer Project Cost: \$10,670.00 (Engineering)		
e. SUA PGA WWTP Operations and Maintenance Manual (Palm Beach Gardens, FL)	Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project involves engineering services to develop a comprehensive Operations and Maintenance (O&M) Manual for the PGA WWTP. The O&M Manual will provide a current overview of plant facilities and design criteria, operation and maintenance activities and requirements, and permit monitoring and reporting requirements. The O&M Manual will be provided in the form of a multi-volume report. In addition, a Microsoft Excel database of existing facility assets and their corresponding maintenance schedules will be developed based on equipment manufacturer O&M information. The project is currently ongoing. Specific Role: Project Engineer Project Cost: \$138,750.00 (Engineering)		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Cameron Kenyon, EI	13. ROLE IN THIS CONTRACT Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 2	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Jupiter, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> BS Civil Engineering, 2019 University of Florida		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Engineer Intern Florida, Civil Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> City of Stuart WWTP Operating Permit Renewal (Stuart, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE provided engineering services to assist the City of Stuart with the renewal of its operating permit for the Wastewater Treatment Plant. HCE prepared the permit renewal application and supporting documents. These included the Florida Department of Environmental Protection (FDEP) forms 62-620.910 1 and 2A, an updated Capacity Analysis Report, an updated Operations and Maintenance Performance Report, an updated abbreviated Engineering Reuse Report, and associated figures and sketches. All documentation was prepared in conformance with FDEP guidelines. Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> City of Port St. Lucie – Commercial Project Plan Reviews (City of Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE provided commercial plan review for The City of Port St. Lucie Utility Systems Department to ensure compliance with the City's regulations. Plans were reviewed in accordance with the City's utility standard's manual, applicable standard details, and City qualified products lists. Marked up plans and comment letters were provided to the City for distribution to the developer through the City's site plan approval process. The project is currently ongoing. Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> MCU Western Force Main and Water Main Extension Project (Martin County, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE is providing design and permitting services for the addition of approximately 29,800 linear feet of water and 36,000 linear feet of wastewater mains necessary to include new customers, currently served by individual septic tanks, in the service area located along State Road 714 between Florida's Turnpike and Interstate 95. The project will connect these Western Utility Extension users to the MCU wastewater transmission system upstream of existing Lift Station No. 540. HCE has designed upgrades to existing Lift Station No. 540 to repump wastewater flow from the Western Corridor Extension to the Martin Downs In-line Booster Pump Station, also design by HCE. Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> City of PSL Port St. Lucie Blvd. Utility Relocations (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE provided engineering services to assist American Consulting Professionals with preparation of water and sewer utility adjustment engineering plan sheets for three different projects along Port St. Lucie Blvd. Utility adjustments were designed in accordance with the Florida Department of Transportation and City of Port St. Lucie standards. Adjustments for both the water and sewer system included adjustments in place, relocations of several portions of water main and force main systems within the project corridor, and upon direction provided by the City of Port St. Lucie the inclusion of additional fittings and/or extension of mains to provide connections for future development. HCE also provided permitting services and will assist with the bidding process. Specific Role: Project Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> Hazard Mitigation Grant Assistance (West Palm Beach, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm HCE prepared five (5) Hazard Mitigation Grant Program applications for the City of West Palm Beach Fire and Police Departments to harden critical public safety facilities and mitigate the effects of hurricane force winds on those facilities. Total funding requested from FEMA is approximately \$8.4 million in funding for the City of West Palm Beach. Cameron assisted with the preparation of grant applications and coordination of information requests.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Linwood Lee	13. ROLE IN THIS CONTRACT Construction Manager	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> Holtz Consulting Engineers, Inc. Stuart, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> Construction Management Washington State University, Washington High School, Morgan City, Louisiana		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> OSHA 30-Hour Hazard Recognition for the Construction Industry	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Westport WWTF Phase 1 – Process Improvements (City of Port St. Lucie, FL)	2020	2020
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm		
Mr. Lee served as the resident project representative for the completion of the process improvements at the City of Port St. Lucie Westport WWTF. HCE was brought in during construction to ensure the project was completed in accordance with the contract documents. The project included improvements to the existing aeration basins, improvements to the clarifier sludge piping, the addition of two (2) plant drain pump stations, improvements to the plant drain gravity and force main systems, improvements to the reclaimed water chlorine contact chamber overflow system, improvements to the plant reuse water system, and electrical modifications. Construction Cost: \$2,162,010 Specific Role: Resident Project Representative		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
b. Hood Road Floridan Raw Water Main Installation (Palm Beach Gardens, FL)	2018	2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm		
Mr. Lee served as the construction manager for the construction of a new 36-inch raw water main along Hood Road from the Hood Road WTP, west to the Westwood Lakes development for the proposed Upper Floridian Wellfield in the Alton development. The raw water main was installed via both open-cut methods and horizontal directional drilling methods. Additionally, 4,200 feet of 2-inch HDPE fiber-optic conduit with pull boxes was installed parallel to the proposed raw water main. Construction Cost: \$1,153,400 Specific Role: Construction Manager		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
c. SMRU Greenland Palms Force Main Extension (Hobe Sound, FL)	2018	2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm		
Mr. Lee served as HCE's construction manager, providing construction administrative services for the installation of a new 8-inch force main in the right-of-way of US-1 in Hobe Sound. Approximately 7,200 linear feet of 8-inch force main were installed via a combination of open-cut and horizontal directional drill methods. HCE coordinated with the Florida Department of Environmental Protection and the Florida Department of Transportation for all necessary permitting. The project was completed on schedule. Construction Cost: \$401,100.00 Specific Role: Construction Manager		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
d. Martin County Utilities Wastewater Treatment Plant Reclaimed Water Storage Tank and Pumps – (Stuart, FL)	2018	2017
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm		
Mr. Lee served as HCE's construction manager, providing construction administrative services for a two-phase reclaimed water storage and pumping improvements project at the Tropical Farms Wastewater Treatment Plant. Phase I consisted of a new one-million-gallon prestressed concrete reclaimed water storage tank including vibroflotation compaction beneath the tank, bypass piping, and piping relocations. Phase II included a new reclaimed water distribution pump station including 18-inch through 36-inch suction and discharge piping and three vertical turbine pumps. An effluent transfer pump station with three new vertical turbine pumps located at the chlorine contact basin was also included. Phase II also consisted of replacing two existing Return Activated Sludge (RAS) pumps with new dry-pit mounted chopper-style pumps. Both phases were completed on schedule. Construction Cost: \$137,620.00 Specific Role: Construction Manager		
(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
e. SUA PGA National Force Main Slip Lining (Palm Beach Gardens, FL)	2017	2017
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [✓] Check if project performed with current firm		
Mr. Lee served as HCE's construction manager for the installation of approximately 4,300 linear feet of new 8-inch DIP force main within an existing 12-inch DIP force main within PGA National via slip-lining methods from Lift Station No.76, along Avenue of the Masters, Avenue of the Champions, and Tournament Boulevard to Lift Station No. 68. Construction Cost: \$49,722 Specific Role: Construction Manager		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Elizabeth A. Lindsay	13. ROLE IN THIS CONTRACT Professional Land Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 22

15. FIRM NAME AND LOCATION *(City and State)*
Betsy Lindsay, Inc. Stuart, Florida

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> A.A., Civil Engineering, Miami Dade Community College, Miami, Florida, 1983 Certified 40 Hour Hazmat/Health & Safety Training	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Land Surveyor, State of Florida – License # 4724
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)* Ms. Lindsay has 39 years of experience in land surveying related responsibilities. During that time, her responsibilities have included computations and coordination for survey related projects such as land subdividing, platting, submerged land lease exhibits, environmental field surveys, bathymetric, road right-of-way and construction, boundary surveys, client liaison, and the supervision of various projects.

19. RELEVANT PROJECTS

a	(1) TITLE AND LOCATION <i>(City and State)</i> River Park Naranja Port St. Lucie, Florida	(3) MONTHS COMPLETED	
		PROFESSIONAL SERVICES Surveying	CONSTRUCTION (If Applicable) 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> Principle in Betsy was the PM on this Topographic survey to support design of River Park low pressure forcemain & forcemain rerouting. We establish control & Acquire topography along half of the right of way of the roadway for 1.28 miles and cross sections at 100' intervals. She supported the CADD tech to deliver the final survey to our client.	[x] Check if project performed with current firm	
b	(1) TITLE AND LOCATION <i>(City and State)</i> Southport Backbone 24" FM Project Port St. Lucie, Florida	() YEAR COMPLETED	
		PROFESSIONAL SERVICES Surveying	CONSTRUCTION (If Applicable) 2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> Principle in Mrs. Lindsay is the Surveyor in charge of this City of Port St. Lucie project. Route survey for the Southport backbone 24" force main project located in the City of Port St. Lucie, Florida. She supported the crews with the field data collections and helped support the CAD techs to create the final survey to deliver to the client.	[x] Check if project performed with current firm	
c	(1) TITLE AND LOCATION <i>(City and State)</i> Westminster Park City of West Palm Beach	(2) MONTHS COMPLETED	
		PROFESSIONAL SERVICES Surveying	CONSTRUCTION (If Applicable) 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> Principle in Mrs. Lindsay was the PM in charge on this project for survey support for the prospect park neighbourhood for water main relocation. Acquire cross sections of the right of way at 100' intervals. Locate all trees within the R/W. Locate and elevate underground utility locates, soft digs and soil borings. We prepared a Topographic survey and delivered to the client..	[x] Check if project performed with current firm	
d	(1) TITLE AND LOCATION <i>(City and State)</i> Carlton Street Hobe Sound, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Surveying	CONSTRUCTION (If Applicable) 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> Principle in Survey support for construction staking and asbuilt surveying for .24 miles on SE Carlton Street for the water main improvements in Hobe Sound. We establish horizontal and vertical control. Stake water main at 50' intervals, fittings, fire hydrants & meters. Perform and prepare an As-built Survey when construction is completed.	[x] Check if project performed with current firm	
e	(1) TITLE AND LOCATION <i>(City and State)</i> Indian River Drive Martin County, Florida	(1) YEAR COMPLETED	
		PROFESSIONAL SERVICES Surveying	CONSTRUCTION (If Applicable) 2020- On Going
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> Principle in Construction staking to support for Indian River Drive forcemain and watermain extension project. We are establishing horizontal and vertical control. Stake the tees, bends, valves and fitting together with the alignment at 50-foot intervals of the water and sewer lines. 200-foot segments will be staked in the morning of each day along Indian River Drive. The 200-foot segments will be as-built in the afternoon of each day prior to backfill and compaction along Indian River Drive	[x] Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Frank Veldhuis	13. ROLE IN THIS CONTRACT Professional Surveyor and Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 19

15. FIRM NAME AND LOCATION *(City and State)*
NorthStar Geomatics, Inc. Stuart, Florida

16. EDUCATION <i>(Degree and Specialization)</i> Associate of Arts, 1994, Lake Sumter Community College Bachelor of Science in Geomatics, 1999, University of Florida	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida Professional Surveyor and Mapper #6582
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Florida Surveying and Mapping Society, National Society of Professional Surveyors. Pubs: Picking up the Pieces: The role of GIS in Post-Hurricane Disaster Response and Recovery. Using GIS to Deliver Local Government Solutions

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Boundary and Plat LTC Ranch	2020	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Boundary survey of LTC Ranch. Preparation of plat of the LTC Ranch in Port St. Lucie. Topographic surveys of drainage ditches for design of positive outfall from site. Multiple sketch and legal descriptions for easements around and through the sites. \$104,505		
b. Port St. Lucie Well F19	2020	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of Port St. Lucie Well F19 for Holtz Consulting Engineers. \$7,840		
c. South Martin Regional Utilities Well S15	2021	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of South Martin Regional Utilities Well S15. Topographic survey included well site and route for future raw water main, power, and fiber optic cable route. Project was located in Hobe Sound Florida. \$5,800		
d. City of Stuart Reverse Osmosis Concentrate Disposal Line	2020	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic route survey for design of a reverse osmosis concentrate disposal line. The route was approximately 6,100 feet in length. \$34,600		
e. City of Stuart Reverse Osmosis Plant	2019	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of the City of Stuart 10th Street water plant that was used to design a reverse osmosis plant on the existing site. Location of above ground features and below ground features City Staff located using ground penetrating radar. \$26,700		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gregory S. Fleming	13. ROLE IN THIS CONTRACT Professional Surveyor and Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 19

15. FIRM NAME AND LOCATION *(City and State)*
NorthStar Geomatics, Inc. Stuart, Florida

16. EDUCATION <i>(Degree and Specialization)</i> Bachelor of Land Surveying, 1986, University of Florida	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida Professional Surveyor and Mapper #4350
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Past President FSMS Indian River Chapter, Education Committee Chairman, FSMS, Indian River Chapter, Technical Session Presenter Florida Joint Mapping Conference

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Boundary and Plat LTC Ranch	2020	
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Boundary survey of LTC Ranch. Preparation of plat of the LTC Ranch in Port St. Lucie. Topographic surveys of drainage ditches for design of positive outfall from site. Multiple sketch and legal descriptions for easements around and through the sites. \$104,505		
Port St. Lucie Well F19	2020	
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of Port St. Lucie Well F19 for Holtz Consulting Engineers. \$7,840		
South Martin Regional Utilities Well S15	2021	
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of South Martin Regional Utilities Well S15. Topographic survey included well site and route for future raw water main, power, and fiber optic cable route. Project was located in Hobe Sound Florida. \$5,800		
City of Stuart Reverse Osmosis Concentrate Disposal Line	2020	
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic route survey for design of a reverse osmosis concentrate disposal line. The route was approximately 6,100 feet in length. \$34,600		
City of Stuart Reverse Osmosis Plant	2019	
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Topographic survey of the City of Stuart 10th Street water plant that was used to design a reverse osmosis plant on the existing site. Location of above ground features and below ground features City Staff located using ground penetrating radar. \$26,700		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David P. Andre, P.E.	13. ROLE IN THIS CONTRACT Project/Contract Manager	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 15+

15. FIRM NAME AND LOCATION (City and State)
Andersen Andre Consulting Engineers, Inc. (Port St. Lucie, Florida)

16. EDUCATION (Degree and Specialization) Bachelor of Science in Environmental Engineering, University of Florida (1993); Post Graduate Coursework in Geotechnical Engineering, University of Central Florida (1997-1998);	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer (Discipline of Civil Engineering) in the State of Florida (No. 53969)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
David is experienced providing geotechnical engineering and materials testing services for roadway and utility construction, infrastructure improvements, and site preparation as well as general environmental consulting relative to subsurface contamination.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) Continuing Service Contract, City of Port St. Lucie, (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007-2011 2016-Ongoing	CONSTRUCTION (if applicable) N/A

A. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm
David was the Contract Manager when AACE maintained a continuing service contract with the City of Port St. Lucie for geotechnical engineering and construction materials testing until 2011 (when the City discontinued all professional service contracts), and then again when the service contracts were reinstated in 2016. Services that AACE routinely provides for the CPSL include the performance of soil borings (SPT and auger borings), test pits, groundwater studies, roadway coring, embankment suitability studies, and all manner of materials, testing during construction (density & concrete testing). Projects have included City-wide culvert and headwall replacements, roadway explorations and testing, utility installations (including more than 50 miles of water main), STA construction, municipal building construction, etc. Project budgets have ranged from \$500 to \$500,000.

(1) TITLE AND LOCATION (City and State) PSLUSD City-Wide Water Main Replacement (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) 2013

B. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm
David was AACE's Project manager when AACE was requested to provide Geotechnical Consulting and Construction Materials Testing services relative to the expedited replacement of more than 50 miles of water main (ranging from 4-inch diameter to 12-inch diameter mains) throughout the central and eastern portions of Port St. Lucie. Thousands of density tests were conducted on pipe trench backfill. Due to potential impacts to residents and businesses, numerous operations were performed between the hours of 10pm and 6am, requiring a full-time presence by an AACE Senior Field Technician. AACE's budget was approximately \$185,000.

(1) TITLE AND LOCATION (City and State) PSLUSD McCarty Ranch Water Quality Restoration Project - Areas 1, 2 & 3 (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) Ongoing

C. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm
David served as Project Manager for construction materials testing during construction of Areas 1, 2 & 3 of the McCarty Ranch water impoundment project and will soon serve in the same role during construction of Area 4. Services which AACE performs include density testing of compacted earthen berms, ditch/canal demucking observations and backfill testing, laboratory gradation testing of sand diaphragm materials, and compressive strength of concrete testing. AACE's budget is approximately \$55,000 for each area (for a total budget of approximately \$165,000 for the 3 completed areas).

(1) TITLE AND LOCATION (City and State) Becker Road - Segments 1 and 2 (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable) 2010

D. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm
David served as Project Manager for this roadway soil survey consisting of soil borings to further characterize reported "unsuitable plastic soils", mast-arm signal pole recommendations, significant lake explorations relative to soil suitability. Construction materials testing consisting of full-time density testing, LBRs, paving and subgrade inspections and compressive strength of concrete testing. AACE's budget was approximately \$300,000.

(1) TITLE AND LOCATION (City and State) Village Parkway, Phases I & II (Port St. Lucie, FL)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable) 2011

E. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm
David served as Project Manager for this roadway soil survey consisting of more than 200 soil borings, recommendations relative to roadway construction through 2,000 l.f. of water-filled reservoir, mast-arm signal pole recommendations, surcharging compressible clays, lake explorations relative to soil suitability. Construction materials testing consisting of over 5,000 density tests, 200+ sets of concrete cylinders for compressive strength, 75+ LBRs and as many as four (4) field technicians providing Quality Control service. AACE's budget was approximately \$400,000.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Peter G. Andersen, P.E.	13. ROLE IN THIS CONTRACT Senior Geotechnical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 24	b. WITH CURRENT FIRM 15+

15. FIRM NAME AND LOCATION (City and State)
Andersen Andre Consulting Engineers, Inc. (Port St. Lucie, Florida)

16. EDUCATION (Degree and Specialization) Masters of Science in Geotechnical Engineering, University of Florida (1997); Bachelor of Science in Civil/Structural Engineering, Technical University of Denmark (1995)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer (Discipline of Civil Engineering) in the State of Florida (No. 57956)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Peter is experienced providing geotechnical engineering and materials testing for roadway and intersection improvements, utility installations, low- and high-rise structures (including deep-foundation alternatives), STAs, solid waste facilities and port/harbor facilities.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
A.	City of Port St. Lucie Rangeline Road Repump Station and 36" Water Main, Port St. Lucie, Florida	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Peter was AACE's Project Manager for the Geotechnical Engineering Evaluation of a proposed 4-mile route for a planned 36" water main along Rangeline Road in western Port St. Lucie. The project also entailed the construction of a directional bore beneath the C-23 Canal and a "booster" pump station at the C-23. Upon completion of the design phase, AACE was contracted to perform Construction Materials Testing for the pipeline as well as the pump station. AACE's budget was approx.. \$30,000.		
B.	Community Boulevard (Port St. Lucie, FL)	2009	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Peter served as <u>Senior Geotechnical Engineer</u> for this roadway soil survey consisting of more than 50 soil borings, mast-arm signal pole recommendations, lake explorations relative to soil suitability. Construction materials testing consisting of over 2,000 density tests, 50+ LBRs, paving and subgrade inspections and demucking observations. AACE's budget was approximately \$150,000.		
C.	Village Parkway, Phases I & II (Port St. Lucie, FL)	2007	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Peter served as <u>Senior Geotechnical Engineer</u> for this roadway soil survey consisting of more than 200 soil borings, recommendations relative to roadway construction through 2,000 l.f. of water-filled reservoir, mast-arm signal pole recommendations, surcharging compressible clays, lake explorations relative to soil suitability. Construction materials testing consisting of over 5,000 density tests, 200+ sets of concrete cylinders for compressive strength, 75+ LBRs and as many as four (4) field technicians providing Quality Control services. AACE's budget was approximately \$400,000.		
D.	Rosser Boulevard (Port St. Lucie, FL)	2007	2008
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Peter served as <u>Senior Geotechnical Engineer</u> for this roadway soil survey consisting of soil borings and roadway cores, mast-arm signal pole recommendations, lake explorations relative to soil suitability. Construction materials testing consisting of full-time density testing, LBRs, paving and subgrade inspections and compressive strength of concrete testing. AACE's budget was approximately \$45,000.		
E.	Tradition Medical Center 9-Story Hospital (Tradition, Port St. Lucie, FL)	2011	2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE AACE was retained by Martin Health System to prepare a subsurface soil exploration and Geotechnical Engineering Evaluation of the proposed Tradition Medical Center (TMC) facility in 2011. Peter Andersen, P.E. coordinated the performance of numerous SPT borings to evaluate the suitability of the site's soils to support the then-proposed 9-story hospital structure, 4-story parking garage and numerous ancillary site features. Due to the presence of very loose silty soils and the associated risk of excessive settlements, a recommendation of Vibro Replacement Technique (VRT, or "stone columns") was made. AACE was then selected by the Owner to perform construction materials testing for Phase I of the project, including earthwork observations, density testing, fill placement monitoring, concrete testing, etc. Subsequently, in 2014, AACE was retained by the Owner to provide supplemental Geotechnical Engineering services for Phase II of the project including two wing additions, increased parking and significant utility and drainage improvements. AACE Geotechnical Engineering and Materials Testing budget was approximately \$400,000.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David McNabb, P.G.	13. ROLE IN THIS CONTRACT Project Manager/Hydrogeologist	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 14

15. FIRM NAME AND LOCATION *(City and State)*
McNabb Hydrogeologic Consulting, Inc., 4600 Military Trail, Suite 116, Jupiter, Florida 33458

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Geology, Indiana University Master of Science, Geology, Univ. of Texas at Arlington	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Florida Registered Professional Geologist #1461
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Professional Geologist for FDEP Underground Injection Control Program, evaluation of Class I injection well design permit applications and MIT plans 1992-1995.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> FPL Okeechobee Clean Energy Center Injection Well System, Vero Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES August 2018	CONSTRUCTION <i>(If applicable)</i> April 2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided design, construction permitting, and construction oversight services for a Class I Industrial deep injection well system at the FPL Okeechobee Clean Energy Center in Okeechobee County. The deep injection well system consists of 2 24-inch diameter deep injection wells with a maximum depth of 3,210 feet and dual-zone monitor well DZMW-1. The injection wells were designed to Class I Industrial deep injection well standards (tubing and packer design) to allow disposal of industrial wastewater from the electrical power generation process. Each of the wells were constructed on a 24-hours a day, 7 days a week schedule to ensure the injection well system was ready for operation during construction and commissioning of the OCEC power plant. Each injection well has an injection capacity of 9.6 MGD. Project manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Port St. Lucie Westport WWTF Injection Well IW-2 Construction Permit, Port St. Lucie Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Currently providing injection well IW-2 construction permitting services for the City's Westport WWTF. FDEP has issued a Draft Construction Permit and receipt of the Notice of Intent to issue permit is anticipated very soon. Project manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Okeechobee Utility Authority WWTP Injection Well System, Okeechobee, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> 2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided construction oversight services for a Class I deep injection well system at the Okeechobee Utilities Authority Cemetery Road Wastewater Treatment Plant in Okeechobee County. The deep injection well system consists of one 24-inch diameter deep injection well with a total depth of 3,200 feet and dual-zone monitor well DZMW-1. Both the injection well and monitor well were constructed concurrently to allow the drilling contractor to complete the construction within a compressed contract time. Observation of construction of both wells required close coordination with the drilling contractor and client to ensure operation of 2 drilling rigs at the site did not interfere with plant operations. Total project construction cost was \$5.7 million. MHC has provided professional services for all subsequent permit renewals and mechanical integrity testing. Project manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Port St. Lucie Westport WWTF Injection Well IW-1 Mechanical Integrity Testing, Port St. Lucie Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES May 2018	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided professional services for Mechanical Integrity Testing (MIT) of the Westport WWTF existing injection well IW-1. The project included the preparation of an MIT plan for submittal and acceptance by FDEP, preparation of technical specifications, field observation services during testing, coordination with FDEP to witness well pressure testing and preparation of an MIT report summarizing and interpreting the testing procedures and results. The report included a summary of monitor well water quality. Project manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Douglas P. Dufresne, P.G.	13. ROLE IN THIS CONTRACT Senior Hydrogeologist	14. YEARS EXPERIENCE a. Total b. With Current Firm 32 22	
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15. FIRM NAME AND LOCATION <i>(City and State)</i> Ardaman & Associates, Inc., Orlando, Florida	
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16. EDUCATION <i>(Degree and Specialization)</i> MS Geology – University of Florida	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Geologist, Florida #1527, GA #2008, LA #699
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18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Water Works Association, National Ground Water Association, Florida Association of Professional Geologists, American Institute of Professional Geologists, American Association of Petroleum Geologists–Division of Environmental Geosciences	
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19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION <i>(City and State)</i> Richard McLaughlin Water Supply Well RM-3, Kissimmee, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Mr. Dufresne was the Project Director for the Toho Water Authority Floridan aquifer production well project with a design capacity of 3,500 gpm, 24-inch diameter casing set to 320 feet and a total depth of 600 feet. The project encompassed well design, construction management and observation, and testing of the well, which included step drawdown test, constant rate discharge testing, geophysical and video logging, water quality testing, plumbness and alignment testing, and preparation of a well completion report.		

b. (1) TITLE AND LOCATION <i>(City and State)</i> Well F8 Evaluation, Testing and Rehabilitation, Port St. Lucie, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Mr. Dufresne was Project Director for the project including the following hydrogeological services: review of existing water quality data, well and total wellfield pumping data, and original logging; well testing and remediation oversight; well testing including geophysical logging, flow logging, video logging, packer testing, aquifer performance testing, specific capacity testing, and water quality testing; and well remediation including back plugging, acidization, and development.		

c. (1) TITLE AND LOCATION <i>(City and State)</i> Wellfield Management Plan, Prineville and JEA Floridan Aquifer Wellfields, Port St. Lucie, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Mr. Dufresne was the Senior Project Manager for the project which was designed to help the City operate and maintain their wellfields and prioritize reduction of chloride concentrations in routinely pumped wells. The project addressed the City's objectives to maintain and increase production capacity of existing wells, to stabilize raw water quality, and to minimize drawdown through wellfield management.		

d. (1) TITLE AND LOCATION <i>(City and State)</i> Westport Reclaimed Water ASR Well Re-permitting, Port St. Lucie, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Mr. Dufresne was the principal in charge of the Westport Reclaimed Water Aquifer Storage and Recovery Well project, which included the design of an aquifer storage and recovery well and monitoring system; preparation of permit application, extensive area of review, and supporting documentation; and responding to requests for additional information. The system is designed to store a target storage volume of 420 million gallons. Ardaman re-permitted the ASR well in 2016.		

e. (1) TITLE AND LOCATION <i>(City and State)</i> Center Road Deep Injection Well Class I Operation Re-permitting Venice, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firms Mr. Dufresne was the Project Director for the Center Road Deep Injection Well Operation Re-permitting for Sarasota County. The compliance permit report included updating the well survey for the area of review; providing maps and cross-sections; analysis of twenty (20) years of operational and monitoring data including injection pressures, injection flow rates, injection pumping volume, annular pressure, groundwater level monitoring, groundwater quality monitoring for 20 different parameters, and specific injectivity; and updating the financial assurance requirements.		

	(1) TITLE AND LOCATION (<i>City and State</i>) City of Lake Worth WTP Injection Well System, Lake Worth, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (<i>If applicable</i>) 2012
e.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Provided deep injection well design and permitting services for a Class I deep injection well system at the City of Lake Worth Reverse-Osmosis Water Treatment Plant. The construction permit for the deep injection well system was obtained six months after submittal of the permit application. The injection well system consist of one Class I Industrial deep injection well with a total depth of 3,300 feet and one dual-zone monitor well with a total depth of 1,942 feet. The construction of the well was completed in 2012. The injection well system is used for disposal of reverse-osmosis concentrate. The construction cost for the project was \$4,688,188. The project was completed on time and on budget with no change orders. MHC provided subsequent operating permit services. Project manager.		
	(1) TITLE AND LOCATION (<i>City and State</i>) FPL Turkey Point Injection Well System, Homestead, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES July 2018	CONSTRUCTION (<i>If applicable</i>) 2016
f.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Provided design, permitting services and services during construction for a 24-inch diameter, 3,230-foot deep injection well and associated dual-zone monitor well at the FPL Turkey Point Power Plant in Miami-Dade County. The project required close coordination with other consultants preparing a Site Certification Application and the Nuclear Regulatory Commission (NRC) applications for the construction of nuclear power generating units. The project also included expert testimony before the NRC. The client required 24-hour a day, seven days a week construction oversight during the construction of the wells. The injection well has a disposal capacity of 15.59 MGD.		
	(1) TITLE AND LOCATION (<i>City and State</i>) Martin County Utilities Tropical Farms W/WWTF Injection Well System, Stuart, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES March 2015	CONSTRUCTION (<i>If applicable</i>) 2006
g.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE MHC staff managed the design, permitting, bidding, and construction oversight of the Tropical Farms deep injection well system. The project consisted of the design and construction of two 26-inch diameter Class I, industrial deep injection wells and an associated dual-zone monitor well. The injection well system is used for disposal of reverse osmosis concentrate and treated wastewater. The bid price was successfully negotiated from \$14.87 million to \$8.94 million. During the construction process, Mr. McNabb successfully negotiated with FDEP to reduce the amount of laboratory analyses required to be performed on rock cores collected during construction. The reduced testing requirements reduced the final cost of the deep injection well system by \$50,000. Project manager.		
	(1) TITLE AND LOCATION (<i>City and State</i>) FPL West County Energy Center Injection Well System Loxahatchee, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES March 2018	CONSTRUCTION (<i>If applicable</i>) 2008
h.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Provided design, construction permitting, and construction oversight services for a Class I Industrial deep injection well system at the FPL West County Energy Center in Palm Beach County. The deep injection well system consists of 2 20-inch diameter deep injection wells with a maximum depth of 3,400 feet and dual-zone monitor well DZMW-1. The injection wells were designed to Class I Industrial deep injection well standards (tubing and packer design) to allow disposal of industrial wastewater from the electrical power generation process. Each of the wells were constructed on a 24-hours a day, 7 days a week schedule, and were completed on time and under budget without a single hour of contractor stand-by time. MHC has provided all subsequent professional services for mechanical integrity testing of the injection wells and renewal of operating permits for the system. Project manager for all the above described work.		
	(1) TITLE AND LOCATION (<i>City and State</i>) Martin County Utilities North W/WWTF Monitor Well Replacement, Jensen Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES September 2015	CONSTRUCTION (<i>If applicable</i>) September 2015
i.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE McNabb Hydrogeologic Consulting, Inc. (MHC) teamed with Holtz Consulting Engineers, Inc. (HCE) to provide professional services for the design, permitting, bidding, construction oversight, and reporting for the construction of a dual-zone monitor well at the Martin County Utilities North Water/Wastewater Treatment Facility. A replacement monitor well was successfully installed within 150 of the existing injection well. The new well design included a fiberglass reinforced pipe final casing to prevent material from building up inside the casing and causing the same problem the resulted in the old well needing to be replaced. Also provided professional services for the plugging and abandonment of the old dual-zone monitor well. The combined construction cost of the replacement dual-zone monitor well and the plug and abandonment of the old well was \$919,994. Project manager.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Guida, P.E.	13. ROLE IN THIS CONTRACT Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 28	b. WITH CURRENT FIRM 2 years
15. FIRM NAME AND LOCATION <i>(City and State)</i> C&W Engineering, Inc.			
16. EDUCATION <i>(Degree and Specialization)</i> Bachelor of Science Electrical Engineering (BSEE)		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida PE No. 60755	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. Palm Beach County Lift Station Rehabilitation Project B, Bid Pkg. 2 Palm Beach County, FL (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Electrical Engineering Design included new service wires, conduit, main service, control panel. Sizing for pumps, voltages. Coordination with FPL. This project included 29 lift stations. \$5M	2019	2020
b. City of West Palm Beach ECR Water Reclamation Facility West Palm Beach, FL (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GBT Bldg. HVAC evaluation and design, Electrical and HVAC load calculations, design. \$250,000.00	2019	
c. City of Pembroke Pines WWTP Rehabilitation, Phase 1 Pembroke Pines, FL (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Electrical Engineering Design build services include data evaluation and preliminary design, drawings and engineering, specifications, submit and review. \$3.5M	2019	
d. Town of Palm Beach E-3 and G-9 Sanitary Pump Station Improvements Palm Beach, FL (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Electrical Engineering and design of new control panels, conduits, service conductors, main breakers. New RTU system, as needed. New remote telemetry system. \$250,000.00	2018	
e. Town of Palm Beach A-7 Pump Station Upsizing of Pumps Palm Beach, FL (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Electrical Engineering Design services for the upsizing of pumps to 12HP, reuse the power service, reuse and modify control panel, wetwell level control system, RTU points. Provided drawings, DEP permit signing. \$100,000.00	2019	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jose Reyes	13. ROLE IN THIS CONTRACT Design and Engineering Services	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 23
15. FIRM NAME AND LOCATION <i>(City and State)</i> C&W Engineering, Inc. West Palm Beach, FL			
16. EDUCATION <i>(Degree and Specialization)</i> Bachelor of Science Electrical Engineering (BSEE)		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineering Design included new service wires, conduit, main service, control panel. Sizing for pumps, voltages. Coordination with FPL. This project included 30 lift stations. \$5M	2017	2019
	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Lift Station Rehab Project A, Bid Pkg. 2 Palm Beach County, FL	2018	2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineering Design included new service wires, conduit, main service, control panel. Sizing for pumps, voltages. Coordination with FPL. This project included 30 lift stations. \$4.5M		
	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Rehabilitation Project B, Bid Pkg. 1 Palm Beach County, FL	2017	2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineering Design included new service wires, conduit, main service, control panel. Sizing for pumps, voltages. Coordination with FPL. This project included 28 lift stations. \$3.5M		
	<input type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Lift Station Rehabilitation Project B, Bid Pkg. 2	2019	2020
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical Engineering Design included new service wires, conduit, main service, control panel. Sizing for pumps, voltages. Coordination with FPL. This project included 29 lift stations. \$5M		
	<input type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County WUD Seminole Reclaimed Meter Station Palm Beach County, FL	2015	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Flow Meter, RTU, Installation Design Cost: \$500,000.00		
	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Luther, PE	13. ROLE IN THIS CONTRACT Chief Electrical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 34	b. WITH CURRENT FIRM 24
15. FIRM NAME AND LOCATION <i>(City and State)</i> Hillers Electrical Engineering, Inc., Boca Raton, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSEE, Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Electrical Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mark Luther brings over 34 years of electrical, instrumentation, communication, and control system design experience to this contract. He has actively performed electrical, lighting, communication, fire alarm and instrumentation and control system design/SCADA, upgrade and project engineering for government, transportation, facility, and utility business sectors. Designed complete electrical distribution, secondary systems and instrumentation systems for large water and wastewater treatment facilities. Designed emergency stand by power systems for industrial, commercial facilities, completed startups, testing of electrical systems, cost estimates and master plan electrical studies. Skills include: value engineering, cost analysis, specification creation, energy analysis, on-site inspections, condition assessment, QA/QC reviews and electrical system fault and coordination studies. Proficiency with SKM Power Tools for Windows DAPPER, CAPTOR, TMS and ARC FLASH; AutoCAD, LitePRO.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Water Utilities – SRWRF Headworks and Effluent Transfer Pumping Improvements, Boynton Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> Under Construction
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Provided electrical, instrumentation and control engineering and design for upgrades to pretreatment process including new band screens, conveyors, grit classifier, odor control and upgrade to 4160-480V power distribution equipment in the Pretreatment Building. Designed new VFD; power distribution and control systems for additional effluent transfer pump to existing Reclaim System. Specific Role: Electrical, Instrumentation & Control Engineer of Record.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Sunrise Utilities – Springtree WWTP Headworks Upgrade, Sunrise, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(if applicable)</i> Under Construction
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Performed Electrical, Instrumentation and Control Design for Upgrade of existing plant influent pretreatment process including screens, grit removal and classification. Specific Role: Electrical, Instrumentation & Control Engineer of Record.		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County Water Utilities -SRWRF Secondary Clarifier and Effluent Filtration Improvements, Boynton Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(if applicable)</i> Under Construction
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Provided electrical, instrumentation and control engineering and design for upgrades to eight existing clarifiers and upgrades/additions to the existing effluent filtration system including new filters, pumps, instruments, and power distribution equipment. Specific Role: Electrical, Instrumentation & Control Engineer of Record.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Sunrise Utilities- Sawgrass Train A Replacement	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i> Under Construction
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Performed Electrical, Instrumentation and Control Design for Replacement of existing Blower Building No.1 and associated Aeration Basins. Project entails constructing new Blower Building No.1 while maintaining existing Blower Building No.1 in service until decommissioned. Project includes new redundant electrical power distribution system, new PLC based control system, new instrumentation, implementation of VFDS on new blowers, repowering existing plant process equipment not upgraded but powered from existing Blower Building No.1. Specific Role: Lead Electrical, Instrumentation and Controls Engineer		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Broward County Water and Wastewater Services – NRWTP Reclaim System Expansion, Pompano Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> Under Construction
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Designed Instrumentation and Control System for 22MGD reclaimed process upgrade. Project included new filters; new filter feed pumps, new chlorine contact chamber; reclaimed water storage and distribution and hypochlorite chemical system. Specific Role: Instrumentation and Control Engineer of Record		

10E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME Thein Win, P.E.	13. ROLE IN THIS CONTRACT Senior Project Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 20
15. FIRM NAME AND LOCATION <i>(City and State)</i> Hillers Electrical Engineering, Inc, Boca Raton, Florida			
16. EDUCATION <i>(Degree and Specialization)</i> BSEE/2001 Electrical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida Professional Engineer-65722	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Institute of Electrical and Electronic Engineers (IEEE), Instrument Society of America (ISA), LEED AP			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Pembroke Pines WTP Carbon Dioxide (CO2) Injection System	(2) YEAR COMPLETED:	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Engineer – Electrical and instrumentation & control systems design and construction inspection services for construction of Pembroke Pine WTP CO2 injection system. Project consists of new power feed to CO2 Storage Tank, Vaporizer, Heater, carrier water booster pumps, dilution system, etc. and new instruments and control implementation for Plant PLC and SCADA system related to the CO2 system.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Pembroke Pines Academic and Holly Lakes Booster Station Improvements	(2) YEAR COMPLETED:	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(if applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Engineer – Electrical and instrumentation & control systems design and construction inspection services for construction of Pembroke Pines Academic and Holly Lakes Booster Stations Improvements. Project consists of additional of altitude valves for ground storage tanks, PLC replacement, new hypochlorite storage tank with associated metering pump skids, new instruments, lighting, power outlets, grounding system related to the new hypochlorite structure.		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Daytona Beach – Westside WWTP Reclamation Facility Improvements	(2) YEAR COMPLETED:	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(if applicable)</i> Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Engineer – Electrical, instrumentation & control design and construction inspection services for new main-tie-main switchboards for the East E-house Electrical Building and the West E-house Electrical Building, new 18-pulse variable frequency drives (VFDs) for 200HP stage-3 aerators and 125HP blowers, new interior and exterior LED lighting, grounding, and lightning protection system. Instrumentation and control/SCADA services included new Controllogix PLC panels, HMI touchscreen, new flowmeters, new DO, and ORP instruments.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Palm Beach County WUD – WTP 8 Finished Water Improvements	(2) YEAR COMPLETED:	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(if applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Engineer – Electrical and instrumentation & control design, construction inspection services, and PLC programming service for construction of WTP 8 Finished Water Aeration system. Project consists of new power feed to new aeration system at 2 - 5.0MG Storage Tanks, new power panels, new variable frequency drives (VFD's) for aerators and mixers. Instrumentation and control/SCADA service includes control implementation for Plant PLC and SCADA system related to the aeration system.		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Orlando – Conserv II Biosolids Improvements	(2) YEAR COMPLETED:	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Engineer – Electrical, instrumentation & control design and construction inspection services for modification of RAS/WAS, Scum, and Biosolids at Conserv II. Project included a new main-tie-main smart switchgear and new intelligent MCCs at the new RAS/WAS Electrical Building, new main-tie-main intelligent MCCs at the Biosolids Building to replace the existing single feed MCC, new variable frequency drives (VFDs), new solid state reduced voltage starters (SSRVS), new interior and exterior LED lighting, grounding, and lightning protection system. Instrumentation and control/SCADA services included new Siemens PLC control panel, new RIO panels, interfacing with the existing Plant ProfiNet network, and new instruments.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Frank A. Brinson, P.E., BCEE	13. ROLE IN THIS CONTRACT Principal Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 14

15. FIRM NAME AND LOCATION (City and State)
McCafferty Brinson Consulting, LLC, Fort Lauderdale, Florida

16. EDUCATION (DEGREE AND SPECIALIZATION) B.S.E, Environmental Engineering, University of Florida, 1991	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida License No. 51313
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Brinson is an environmental engineer with twenty-nine years of experience. He is experienced in both management and execution of projects with expertise in engineering analysis, pilot studies, modeling, utility master planning, design, permitting, preparation of bidding and construction documents, construction contract administration, and construction management. Specialties include wastewater, water, reclaimed water treatment and facilities, evaluation studies, pumping and hydraulic systems, and utility infrastructure.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Glades Road Water Treatment Plant, 40 mgd Nanofiltration (NF) Membrane Element Replacement, City of Boca Raton	2014	2015
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project included pilot testing, development of Technical Specifications and bidding documents for the replacement membrane elements, as well as the membrane loading contract, permitting, engineering services during membrane loading, and engineering supervision of membrane performance testing. Mr. Brinson served as the Project Manager and Engineer of Record for the project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Membrane Element Replacement, City of Pompano Beach, Florida	2019	2020
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project included the replacement of the 1,820 nanofiltration (NF) membrane elements in the 10 million gallon per day capacity NF process at the City’s water treatment plant. Pilot testing of membrane element selection from membrane element manufactures for prequalification for bidding and to optimize the chemical pretreatment protocol and element selection. This project was completed six months ahead of schedule. Mr. Brinson served as the Project Manager and Engineer of Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
BCWWS Pump Station 3A Demonstration and Design of 4-Log Virus Treatment, Broward County, Florida	2016	2018
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE MBC was authorized to prepare the Demonstration of Four-Log Virus Treatment of Groundwater package for submittal to the Florida Department of Health – Broward County (FDHBC) and Florida Department of Environmental Protection (FDEP). Mr. Brinson served as Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Lime Softening Backwash and Disinfection Upgrades, City of Boca Raton, Florida.	2020	-
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Brinson served as the Project Manager and Engineer of Record for the addition of filter-to-waste piping and control valves to route the filter effluent to the washwater recovery basin, the installation of underground 48-inch diameter bypass piping that allows lime softening process clearwells to bypass the Building No. 5 transfer pump station and utilize the Building No. 7 transfer pumps, and modification of clearwell to provide optimized four-log virus disinfection.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Seminole Tribe of Florida Hollywood Raw Water Supply Improvements, Hollywood, Florida.	2018	2019
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Brinson served as the Project Manager and Engineer of Record for the installation of well pumps and approximately 1,050 linear feet of raw water main (8” to 16” diameter) from the new pumps to the existing main at the Hollywood Reservation Water Treatment Plant.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Joseph Franko, PE Senior Associate	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL 32	b. WITH CURRENT FIRM 31

15. FIRM NAME AND LOCATION <i>(City and State)</i> Hazen and Sawyer, Boca Raton, Florida	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE, 1989, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering (FL 48077)
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Franko has directed or participated in the planning, permitting, design and construction of several water, wastewater and stormwater projects for Hazen in Florida. **Professional Organizations:** American Society of Civil Engineers; American Water Works Association; Florida Engineering Society; National Society of Professional Engineers

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
East Central Regional Water Reclamation Facility (ECRWF) Operations Board Biosolids Improvements, West Palm Beach, FL	2015	2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Mr. Franko served as Lead Resident Engineer for this \$96.8 million Biosolids project. Responsibilities include general oversight of all construction activities, coordination and oversight of all on-site inspections by three subconsultants for their portion of the work; and direct responsibility for construction oversight of all the anaerobic digestion facilities. He was also responsible for chairing progress meetings, negotiating change orders, reviewing pay request, loop test of I&C system, startup and testing of the anaerobic digestion facilities, and project closeout. Major components of the project include conversion of an existing aerobic digester to a fine bubble BNR aeration basin, restoration of an existing gravity belt thickening facility, two thermophilic digesters, four mesophilic digesters, two new electrical buildings, sludge handling and pumping facilities, FOG and septage receiving facilities, and sludge dewatering facilities. Cost: \$96.8 million (construction) Specific Role: Lead Resident Engineer		
Bluefield and Scott Dispersed Water Management (DWM) Evans Properties, Vero Beach, FL	10/2021 (est.)	10/2021 (est.)
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Mr. Franko is the Resident Engineer for these two water treatment projects. The Bluefield Dispersed Water Management system will establish a surface water retention system that is being constructed to create a 6,107-acre water storage area. The operational intent of the project is to retain excess water from the C-23 Canal and not to release back to the C-23 Canal. Construction of this system consists of six (6) storage cells with a total of five (5) pump stations. The Scott Dispersed Water Management system will establish a surface water retention system that is being constructed to create a 7,444-acre water storage area. Mr. Franko is also responsible for reviewing all submittals, chairing progress meetings, negotiating change orders, reviewing pay request, startup and testing of the pump stations, and project closeout. Cost: \$399,100 (CMS fees) Specific Role: Resident Engineer		
Glades Booster Pump Station Force Main Port St. Lucie, FL	2008	2008
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Mr. Franko was the Engineer-of-Record for three In-line Booster pump stations and served as Project Engineer for the City of Port St. Lucie's Glades Booster Pump Station Force Main. The Glades Booster Pump Station Force Main project consists of 14,160 feet of 24-inch piping with eight separate 30-inch HDPE HDD installations required to avoid wetlands and canals. The HDPE HDD totaled 2,860 feet. The project included 325 feet of 42-inch jack and bore under the Florida East Coast Railroad and a 200-foot crossing of a FP&L high voltage transmission main along with coordination and permitting from several entities. Cost: \$4.95 million Specific Role: Engineer-of-Record and Project Engineer		
Secondary Clarifier Rehabilitation and RAS Pump Station Upgrade City of St. Augustine, FL	2015	2017
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Hazen worked with the City to confirm/develop a scope to provide engineering design, permitting, and bidding services for the subject project. Services included Preliminary Design (60 percent) based on a previous completed Preliminary Design Report, Final Design Services (90 and 100 percent), Permitting Services through the State of Florida Department of Environmental Protection and Bidding Services through Construction Contract Award. Improvements include mechanical, structural, electrical and instrumentation to two existing 100-foot-diameter clarifiers and an existing wet pit/dry pit Return Activated Sludge Pump Station. Cost: \$166,480 (Fee) Specific Role: Project Manager		
Sawgrass WWTP Effluent Injection Well Pumping System Expansion City of Sunrise, FL	2011	2011
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. The Sawgrass WWTP Effluent Injection Well Pumping System Expansion includes design, bidding, permitting, and construction administration services for expanding the effluent injection well pumping system at the City of Sunrise – Sawgrass Wastewater Treatment Plant to a capacity of 52.6 MGD. The project consisted of three phases: a system study, initial capacity expansion and a system expansion including a new pump station. Cost: \$3,659,961 (bid), \$119,691 (initial expansion fee), \$431,861 (system expansion fee), \$551,552 (total fees) Specific Role: Project Manager; Engineer of Record; Construction Administration		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jonathan H. Cole, P.E., President	13. ROLE IN THIS CONTRACT Principal-in-Charge	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 29

15. FIRM NAME AND LOCATION *(City and State)*
Giffels-Webster Engineers, Inc., Englewood, Florida

16. EDUCATION <i>(Degree and Specialization)</i> BS/1979/Civil Engineering – University of Connecticut 1985/Florida Professional Engineer	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> 1984/Connecticut Professional Engineer 1987/New Hampshire Professional Engineer 2018/Nebraska Professional Engineer 2019/Kansas Professional Engineer
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Co-authored "Defying Gravity", ASCE Civil Engineering, Feb. 1998; "Lemon Bay's Water Quality Will Benefit From Centralized Sewer System Project", Focus: Lemon Bay & Watershed, Charlotte Harbor National Estuary Program.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Area V9-C Vacuum Sewer Design, Englewood, Florida	2015	2016
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by the EWD to provide all the design and CEI services for the sewer expansion project that consisted of 260 connections involving approximately 25,000 feet of vacuum piping. Costs: \$4.5M, Role: Principal-in-Charge		
North River Shores Vacuum Sewer Design, Phase 2, Stuart, Florida	2019	2019
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design a vacuum collection system into a highly developed neighborhood including 5,000 feet of force main of which 300 feet was with FDOT limited access right-of-way for Martin County Utilities. Cost: \$6M, Role: Principal-in-Charge/EOR		
East/West Spring Lake Vacuum Sewer Station, Port Charlotte, Florida	2018	2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by Charlotte County Utilities to design and permit a new centralized vacuum sewer station which included water main upgrades in existing developed neighborhoods. There are approximately 2,200 sewer connections. Cost: \$1.5M, Role: Principal-in-Charge/EOR.		
Phillippi Creek Septic System Replacement Program – Area N-3, Sarasota, Florida	2017	2017
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design and permit for this area a small "hybrid" gravity sewer system using shallow gravity lines, two standard lift stations and two small mini lift stations. Area N-3 was initially designed as a low pressure sewer system. Cost: \$3M, Role: Principal-in-Charge/EOR		
Phillippi Creek Septic System Replacement Program - Area O & P, Sarasota, Florida	2017	2017
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project involved the planning and design of approx. 12.9 miles of vacuum pipe, and 570 valve pits serving approx. 1,247 ERC's for Sarasota County Public Works. Cost: 16.5M, Role: Engineer or Record/CEI		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Dennis J. Croyle, P.E.	13. ROLE IN THIS CONTRACT Engineer of Record	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 7

15. FIRM NAME AND LOCATION *(City and State)*
Giffels-Webster Engineers, Inc., Englewood, Florida

16. EDUCATION <i>(Degree and Specialization)</i> University of Florida - 2011, Bachelors of Science in Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> State of Florida - P.E. #82287
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Florida D.E.P. Stormwater Erosion & Sediment Inspector
Florida Advanced MOT Training

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Area V9-B Vacuum Sewer Design, Englewood, Florida	2014	2015
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by the EWD to provide all the design and CEI services for the sewer expansion project that consisted of 260 connections involving approximately 25,000 feet of vacuum piping. Costs: \$2.2 M, Role: Designer		
East/West Spring Lake Vacuum Sewer and Force Main, Port Charlotte, Florida	2014	2015
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by Charlotte County Utilities to design and permit a new centralized vacuum sewer system and water main upgrades in existing developed neighborhoods. There will be approximately 2,200 sewer connections when construction of the project is completed. Cost: \$15.8M, Role: Designer		
East/West Spring Lake Vacuum Sewer Station, Port Charlotte, Florida	2018	2018
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by Charlotte County Utilities to design and permit a new centralized vacuum sewer station which included water main upgrades in existing developed neighborhoods. There are approximately 2,200 sewer connections. Cost: \$1.5M Role: Principal-in-Charge/EOR		
Area V9-C Vacuum Sewer Design, Englewood, Florida	2015	2016
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained by the EWD to provide all the design and CEI services for the sewer expansion project that consisted of 260 connections involving approximately 25,000 feet of vacuum piping. Cost: \$4.5M Role: Utility Designer		
Phillippi Creek Septic System Replacement Program – Area N-3, Sarasota, Florida	2014	2017
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GWE was retained to design and permit for this area a small "hybrid" gravity sewer system using shallow gravity lines, two standard lift stations and two small mini lift stations. Area N-3 was initially designed as a low pressure sewer system. Cost: \$3M Role: Utility Designer		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME David S. Morris, PE	13. ROLE IN THIS CONTRACT Structural Engineering	14. YEARS EXPERIENCE	
		a. TOTAL 13	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION *(City and State)*

16. EDUCATION <i>(Degree and Specialization)</i> M.S. Civil Engineering, University of Central Florida, 2011 B.S. Civil Engineering, University of Central Florida, 2008	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida, Professional Engineer #74717
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
South Bermuda WRF Upgrades and Expansion Project - Kissimmee, FL	2019	Current
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Structural Engineer of Record for the design of the improvements which included the design of a new grit screening structure and miscellaneous pipe supports for odor control ducts.		
OIA - WS-110 South Terminal C, Phase 1 Lift Station #2 - Orlando, FL	2019	Current
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Structural Engineer of Record for the design on a Lift Station for the above referenced project. The triplex lift station has a cast-in-place concrete wet well that is 14 feet in diameter and approximately 31 feet below grade. The structure was designed as cast-in-place construction given it's size.		
Talleyrand Pump Station Gate Replacement - Jacksonville, FL	2018	2019
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Engineering of Record for the rehabilitation of the Talleyrand Influent Pump Station. The improvements entailed performing structural repairs and rehabilitation of concrete withing the Pump Station channels and Influent Splitter Box as well as the design of a new Bypassing Box located upstream from the Pump Station.		
Turnpike WRF Dewatering Facility Improvements - City of Leesburg, FL	2018	2019
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Structural Engineer of Record for the design of the improvements which included the design of a new dewatering building to accommodate a new belt filter press. The design also included containments areas, platforms, stairs, and miscellaneous pipe supports.		
MacDill AFB Headworks and Grit Improvements - Tampa, FL	2018	2019
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural Project Engineer for the design for the improvements of the Headworks/Grit Improvements. The improvements included the construction of new reinforced concrete influent Headworks Structure and independent grit chamber.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Justin Ryan	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL 10+	b. WITH CURRENT FIRM 3+
15. FIRM NAME AND LOCATION <i>(City and State)</i> Underdog Utility Detection LLC. 3524 Lone Pine Rd. Delray Beach FL. 33445			
16. EDUCATION (DEGREE AND SPECIALIZATION) Staking University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Florida Utility Locator	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> City of W.P.B SBE Certification, Sunshine 811 Associated Member			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Boca Raton Resort & Spa Boca Raton FL.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Utility locates	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Locate and mark the utilities on site in designated areas. Specific Role: Utility locator Project Cost: \$20,000		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> FPL Lighting Alarms at powerplants	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Utility locates	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Located areas as needed for the installation of lighting detectors at various plants throughout state. Specific Role: Utility locator Project Cost: \$10,000		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Stuart W.T.P	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Utility locates	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Located various utilities and performed pot hole verification for client. Specific Role: Utility locator Project Cost: \$5,000		
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		

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 <p style="text-align: center;">1</p>
21. TITLE AND LOCATION <i>(City and State)</i> Glades-Tradition Reuse Water Main Project City of Port St. Lucie, FL	22. YEAR COMPLETED PROFESSIONAL SERVICES: Ongoing CONSTRUCTION <i>(If applicable)</i> : TBD	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Port St. Lucie Utility Systems	b. POINT OF CONTACT NAME John Eason, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772-873-6487
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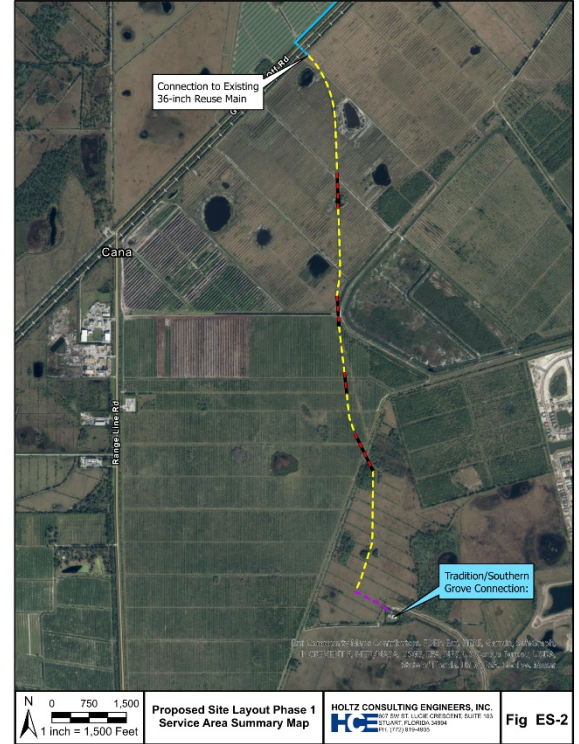
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for an approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves.

As part of this project, HCE estimated future reuse demand for approximately 20,000 acres of service area in the Southwest area of the City. HCE performed hydraulic modeling using the reuse demand estimates to determine the proposed water main extension sizing. The hydraulic modeling effort also extended to analyzing future expansion of the system as the SW area of the City is built-out. A preliminary design report was prepared summarizing the demand estimates, modeling results, and future improvements required as the system expands.

The reuse water main will be 24-inch diameter and be designed to be primarily installed by open cut.; however, horizontal directional drills will be required in three (3) areas to cross an existing wetland and existing canals along the route. HCE is also coordinating crossing three FPL easements with the new reuse main

Engineering: \$352,162



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Stuart, FL	Engineering Consultant
b.	Betsy Lindsay, Inc.	Stuart, FL	Survey
c.	Andersen Andre Consulting Engineers, Inc.	City of Port St. Lucie, FL	Geotechnical Consultant
d.	Underdog Utility Detection, LLC	Delray Beach, FL	Underground Utility Locator
e.			

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 <p style="text-align: center;">2</p>				
21. TITLE AND LOCATION (City and State) Upper Floridan Aquifer Supply Well F-19 City of Port St. Lucie, FL	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">TBD</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	TBD
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2021	TBD					

23. PROJECT OWNER'S INFORMATION

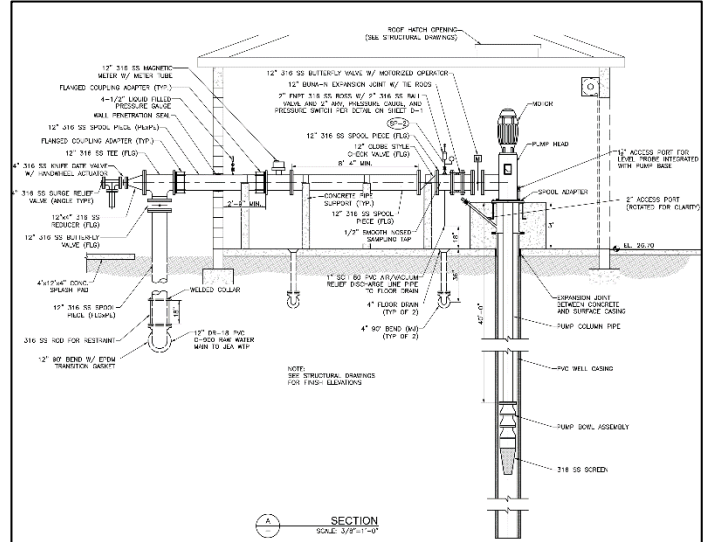
a. PROJECT OWNER City of Port St. Lucie Utility Systems	b. POINT OF CONTACT NAME David Garland, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772-807-4414
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant.

The project design includes the new well, a well head with an 1,840 gpm vertical turbine well pump, a 250 kW LP standby generator, a concrete block building, concrete driveway, fencing, and other site improvements. HCE's team includes a hydrogeologist for well design, an electrical engineer for the electrical and communications design, and a structural engineer for the building design.

As part of this project HCE will be connecting to a new raw water main and fiber optic cable being constructed by the City from the JEA Water Treatment Plant and across Interstate 95 to the site. Coordination is required between HCE and the City on the raw water main project due to limited site access for construction mobilization and time constraints to get the well into service. HCE is also providing permitting with the Florida Department of Environmental Protection and South Florida Water Management District for the new well.



Engineering: \$331,951

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Stuart, FL	Engineering Consultant
b.	NorthStar Geomatics	Stuart, FL	Survey
c.	Andersen Andre Consulting Engineers, Inc.	Port St. Lucie, FL	Geotechnical Consultant
d.	C&W Engineering	West Palm Beach, FL	Electrical Engineering
e.	Wekiva Engineering	Winter Park, FL	Structural Engineering
f.	Ardaman and Associates, Inc.	Orlando, FL	Hydrogeologist

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 <p style="text-align: center;">3</p>		
21. TITLE AND LOCATION <i>(City and State)</i> Sandhill Crossing Wastewater Collection Evaluation City of Port St. Lucie, FL		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2021</td> <td>CONSTRUCTION <i>(If applicable)</i> TBD</td> </tr> </table>	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD
PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> TBD			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Port St. Lucie Utility Systems	b. POINT OF CONTACT NAME John Eason, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772-873-6487
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The existing wastewater collection system serving the City of Port St. Lucie's Sandhill Crossing neighborhood was constructed over 40 years ago and is comprised of antiquated materials. This system is considered to be at the end of its useful life and in need of replacement. HCE provided professional engineering services related to reviewing the Sandhill Crossing Wastewater Collection Evaluation Draft Report prepared by the City of Port St. Lucie, focusing only on the vacuum and septic tank effluent pump (STEP) system alternatives. HCE provided an independent evaluation of the cost estimates and relative advantages and disadvantages of the vacuum and STEP system options included in the original report.

The cost analysis, a level four cost estimate as defined by the Association for the Advancement of Cost Engineering (AACE), included both capital costs and Operation and Maintenance (O&M) costs and a 40-year net present worth determination. For a deliverable, HCE prepared a brief technical memorandum including the cost estimates and advantages and disadvantages for the vacuum and STEP options. The capital cost for each system alternative ranged from \$82M to \$120M.

Engineering: \$5,435

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Holtz Consulting Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Stuart, FL	(3) ROLE Engineering Consultant
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <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 <p style="text-align: center;">4</p>
21. TITLE AND LOCATION <i>(City and State)</i> Naranja Low Pressure and Force Mains Improvements Project City of Port St. Lucie, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> TBD

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Port St. Lucie Utility Systems	b. POINT OF CONTACT NAME Pierre Vignier, CAPM	c. POINT OF CONTACT TELEPHONE NUMBER 772-871-5434
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE provided professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for approximately 7,050 linear feet of new low pressure and force main. The project was split into three phases with Phase 1 and 2 consisting of low-pressure main improvements in the neighborhood south of Prima Vista Blvd. between Floresta and Sandia Drives. Phase 3 consisted of 1,650 linear feet of force main replacement along Prima Vista Blvd.

The wastewater collection system for the project discharges to the City's Lift Station NP-01. The existing low-pressure mains and force mains discharge to gravity sewers upstream of the lift station. Wet weather events have caused backups in the system. The project involves the construction of 6" and 8" low-pressure main extensions that will tie directly to Lift Station NP-01, eliminating the discharge of these mains and reducing the loading on the gravity system. In addition, Phase 3, replaces and extends the existing 6" force main along Prima Vista Blvd. and provide a direct connection to the City's force main downstream of NP-01. Phase 3 eliminates the existing force main's discharge to the gravity system and Lift Station NP-01.

As part of this project, HCE performed hydraulic modeling and an evaluation of the existing and proposed low-pressure main systems to determine the appropriate force main diameter. The force main was designed to be constructed primarily of HDPE and be installed via the horizontal direction drill method throughout the project.

Phase 1 and Phase 2 of the project were fast-tracked so the low-pressure main could be constructed to sooner alleviate the effects of potential hurricanes or other severe weather events.

Design: \$109,489

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Holtz Consulting Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Stuart, FL	(3) ROLE Engineering Consultant
b.	(1) FIRM NAME Betsy Lindsay, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Stuart, FL	(3) ROLE Survey
c.	(1) FIRM NAME Andersen Andre Consulting Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Port St. Lucie, FL	(3) ROLE Geotechnical Consultant
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
5

21. TITLE AND LOCATION <i>(City and State)</i> Water Main Replacement Program and SRF Grant Administration Stuart, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if Applicable) 2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Stuart	b. POINT OF CONTACT NAME Mr. Timothy Voelker, PE	c. POINT OF CONTACT TELEPHONE NUMBER (772) 288-5332
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE performed design, permitting, State Revolving Fund (SRF) funding assistance, bidding, and engineering services during construction of approximately 59,000 linear feet of 6-inch through 12-inch water mains in existing residential neighborhoods and commercial developments. The new mains replaced inadequately sized mains, loop dead ends, replace old mains, and increase fire protection. The mains were constructed in City, County, and FDOT right-of-ways. HCE assisted the City of Stuart with the preparation of the Request for Inclusion and Water Facilities Plan and all supporting documentation for FDEP, State Clearinghouse, USDA, and Fish & Wildlife acceptance.

Construction Cost: \$5,040,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Stuart, FL	Engineering Consultant
b.	Betsy Lindsay	Stuart, FL	Survey
c.			
d.			
e.			
f.			

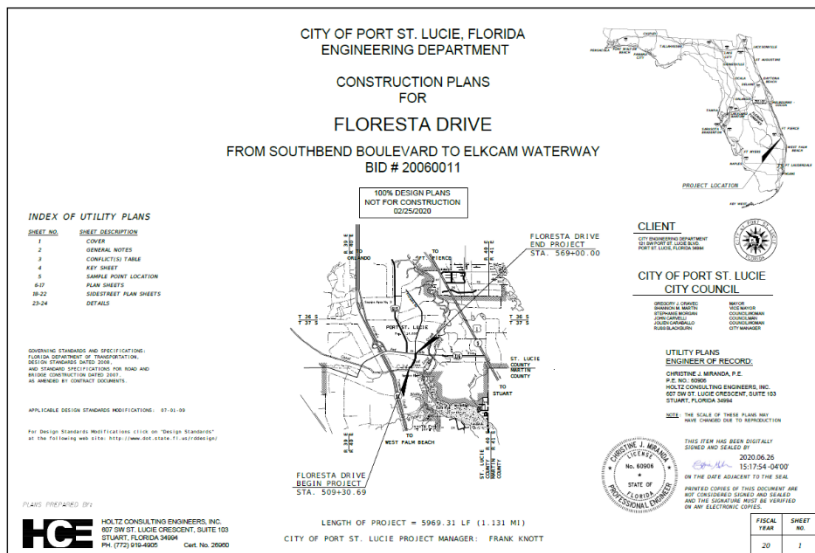
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">6</p>				
21. TITLE AND LOCATION (City and State) Floresta Drive Utility Adjustment Plans City of Port St. Lucie, Florida	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2020</td> <td style="text-align: center;">2021</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2020	2021
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2020	2021					

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER American Consulting Professionals, LLC	b. POINT OF CONTACT NAME Christopher O'Reilly, PE	c. POINT OF CONTACT TELEPHONE NUMBER 561-253-9563
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

HCE provided design engineering services for the relocation of water mains, low pressure force mains, and force mains within the City of Port St. Lucie along approximately three miles of Floresta Drive from Elkcam Waterway to Prima Vista Boulevard. As part of this project, HCE prepared drawings to depict the proposed utility relocations in accordance with FDOT and City of Port St. Lucie Standards. Utility relocations were performed as a response to proposed widening of the roadway, and new stormwater improvements.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Stuart, FL	Engineering Consultant
b.			
c.			
d.			
e.			

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 <p style="text-align: center;">7</p>
21. TITLE AND LOCATION <i>(City and State)</i> SUA Hydraulic Modeling – Potable Water Distribution, Reclaimed Water Transmission, and Wastewater Transmission Systems (Palm Beach Gardens, FL)	22. YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION <i>(If applicable)</i> N/A	

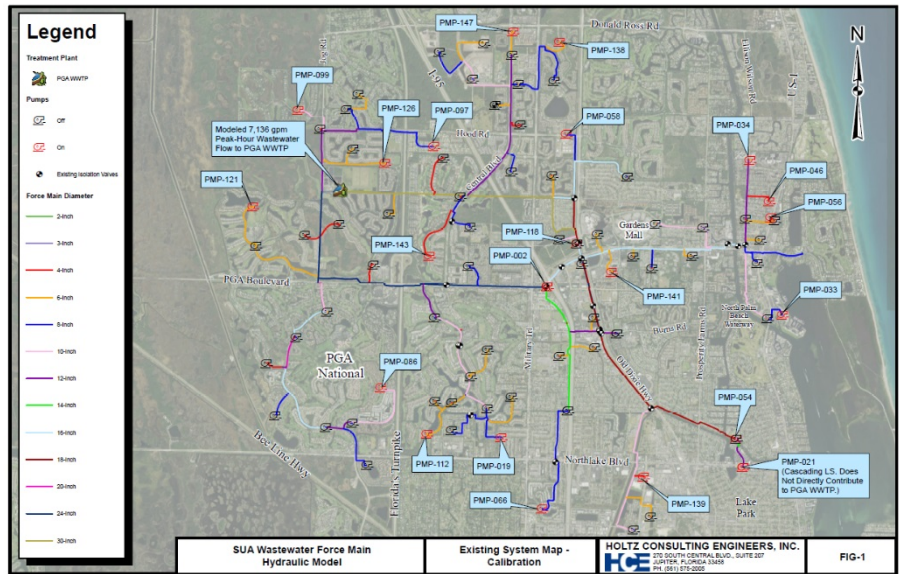
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Seacoast Utility Authority	b. POINT OF CONTACT NAME Brent Weidenhamer, PE	c. POINT OF CONTACT TELEPHONE NUMBER (561) 627-2900 ext. 1494
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Holtz Consulting Engineers, Inc. (HCE) assisted Seacoast Utility Authority (SUA) to develop calibrated hydraulic models of the SUA potable water distribution system, reclaimed water transmission system, and wastewater transmission system and, utilizing those calibrated models, performed several hydraulic modeling scenarios.

The hydraulic models were drawn in the ESRI Geographic Information System (GIS) environment as fully connected geometric networks and then imported and developed using Innovyze Infowater hydraulic modeling software. Pipes were assigned diameters and roughness coefficients based on size and material from available SUA record drawings or GIS, node elevations were assigned based on United States Geologic Survey (USGS) lidar topography, and model boundary conditions were assigned based on information from SUA staff. The models were calibrated to most closely match Supervisory Control and Data Acquisition (SCADA) records during peak flow conditions or various field tests if applicable (i.e. hydrant flow tests).



These hydraulic models were used to develop “what if” scenarios to provide SUA with a data driven approach to proactively address existing and future impacts to their water distribution, reclaimed transmission, and wastewater transmission systems. Examples of hydraulic modeling scenarios included but are not limited to: addressing the addition of a new 1,000,000 square-foot Florida Power and Light headquarters to the potable water distribution system, providing justification for SUA’s potable water distribution system to qualify for the Insurance Services Office’s (ISOs) Class 1 through 8 classification, and providing recommendations for replacing old and difficult to access asbestos cement wastewater pipe with new ductile iron pipe in a location more suitable for SUA operation and maintenance personnel.

FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Jupiter, FL	Engineering Consultant
b.			
c.			
d.			

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 <p style="text-align: center;">8</p>		
21. TITLE AND LOCATION <i>(City and State)</i> Martin County Utilities Dixie Park Inline Booster Pump Station Martin County, FL	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2020</td> <td>CONSTRUCTION <i>(If applicable)</i> 2021</td> </tr> </table>		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> 2021
PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> 2021			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Martin County Utilities	b. POINT OF CONTACT NAME Jeremy Covey, PE	c. POINT OF CONTACT TELEPHONE NUMBER 772-221-2353
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE provided preliminary and final design, hydraulic modeling and analysis, permitting, bidding, and construction administration services for Martin County Utilities to replace their existing Dixie Park Inline Booster Pump Station. In addition to the booster pump station replacement, the project included electrical building modifications and the demolition of tanks and other site facilities that are currently unused and at the end of their useful life. This project includes the installation of two new 250-HP Vaughan Chopper pumps, and two 50-HP jockey pumps to accommodate the higher flow rates that the area has been experiencing, and in anticipation of coming development. Three large steel treatment tanks are being demolished as part of this project, while one tank is to remain and is undergoing improvements and modifications to convert it into a functional emergency surge tank. The electrical building roof was hardened to meet current building codes. This project increased the pumping capacity of the booster pump station to accommodate development and septic-to-sewer conversions, increased the reliability of the pumping system, reduced operation and maintenance costs, and hardened existing structures against potential storm damage.



Engineering: \$281,950
 Construction: \$2,166,672

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Holtz Consulting Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Stuart, FL	(3) ROLE Engineering Consultant
b.	(1) FIRM NAME C&W Engineering	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Electrical Engineering
c.	(1) FIRM NAME Wekiva Engineering	(2) FIRM LOCATION <i>(City and State)</i> Winter Park, FL	(3) ROLE Structural Engineering
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <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 <p style="text-align: center;">9</p>
21. TITLE AND LOCATION <i>(City and State)</i> Seacoast Utility Authority Ground Storage Tanks No. 5, 6 and 7 at the Hood Road Water Treatment Plant Palm Beach Gardens, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Seacoast Utility Authority	b. POINT OF CONTACT NAME Brandon Selle	c. POINT OF CONTACT TELEPHONE NUMBER (561) 627-2900 x1350
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE provided professional services for the surveying and site investigation, design, permitting, bidding and construction administration of the addition of three new 2-MG prestressed-concrete ground storage tanks (GST) at the Hood Road Water Treatment Plant (WTP), including associated water main piping extensions, valves and fittings, electrical and instrumentation and site preparation. Work also included various yard piping improvements in the vicinity of the new GSTs.

Engineering: \$274,259
 Construction: \$3,834,721



FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	Holtz Consulting Engineers, Inc.	Jupiter, FL	Engineering Consultant
b.	C&W Engineering	West Palm Beach, FL	Electrical Engineering
c.			
d.			
e.			
f.			

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 <p style="text-align: center;">10</p>		
21. TITLE AND LOCATION <i>(City and State)</i> Seacoast Utility Authority PGA WWTP NRCY Pump Station, Blower Building, and Electrical Modifications Palm Beach Gardens, FL		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2018</td> <td>CONSTRUCTION <i>(If applicable)</i> 2020</td> </tr> </table>	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> 2020
PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> 2020			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Seacoast Utility Authority	b. POINT OF CONTACT NAME Brent Weidenhamer, PE	c. POINT OF CONTACT TELEPHONE NUMBER (561) 627-2900 x1494
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HCE provided survey, preliminary and final design, permitting, bidding, and construction administration services for Seacoast Utility Authority to demolish existing buildings at their wastewater treatment plant, construct a new blower building, including the installation of six new blowers (two turbo and four centrifugal), replace the existing nitrified recycle pump station, and improve various electrical components at the site including VFDs, motor control centers, and lighting. This project also includes the replacement of an internal recycle pump station consisting of three chopper-style pumps. This project serves to replace and upgrade existing plant infrastructure to increase operational flexibility, decrease electric power consumption, and maintain reliable production of reclaimed water.



Engineering: \$608,972
 Construction: \$5,245,490

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Holtz Consulting Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Jupiter, FL	(3) ROLE Engineering Consultant
b.	(1) FIRM NAME Hillers Electrical Engineers, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Boca Raton, FL	(3) ROLE Electrical Engineering
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Christine Miranda, PE	Client Service Manager	X	X			X	X				
Curtis Robinson, PE	Project Manager	X	X	X	X	X	X	X	X	X	X
Benjamin Fecko, PE	Senior Engineer	X	X		X		X				
David Holtz, PE	QA/QC	X	X			X		X	X	X	X
Lawrence Lardieri, PE	Senior Engineer & QA/QC		X	X	X						
Stephen Fowler, PE	Senior Engineer									X	X
Matthew Paymer, PE	Project Engineer	X			X	X	X	X			
Harrison Barron, PE	Project Engineer									X	X
Taylor Lenney, EI	Project Engineer		X	X			X				X
Cameron Kenyon, EI	Project Engineer				X		X				
Andrea Holtz, PE	Grants & Funding Assistance					X	X				
Linwood Lee	Construction Manager					X			X	X	X

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	Glades-Tradition Reuse Water Main	6	Floresta Drive Utility Adjustment Plans
2	PSL Upper Floridan Aquifer Well F-19	7	SUA Potable, Reclaimed, & Wastewater Modeling
3	Sandhill Crossing Wastewater Collection	8	MCU Dixie Park Inline Booster Pump Station
4	Naranja Low Pressure Force Main and FM	9	SUA Hood Road Ground Storage Tanks
5	City of Stuart Water Main Replacement Program	10	SUA PGA WWTP Blowers, NRCY PS, and Elec. Imp.

H. ADDITIONAL INFORMATION

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

All of us at HCE realize how fortunate we are to be part of the business and social communities that we provide services for, and take immense pride in taking roles in improving those communities. We are very proud of the decisions our employees make in participating in community events and taking active roles with different organizations. Your proposed Client Service Manager and Project Manager for this contract are both long-standing residents of the City of Port St. Lucie and have a vested interest in the success of everything the City does. Additionally, two of HCE's Construction Manager/Inspectors are also residents, which allows us to provide quick and responsive service on all of your projects. HCE through being members of the community and participating in local events, comprehends the key elements needed to make the City's projects successful.

HCE shows commitment to communities by doing more than making donations. We are actively involved with many charitable causes, constantly working to help those who need it most by planning, staffing and taking part of events.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

8/13/21

33. NAME AND TITLE

Andrea Holtz, PE - President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

20210093

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME NorthStar Geomatics, Inc			3. YEAR ESTABLISHED 2002		4. UNIQUE ENTITY IDENTIFIER 12-606-1790	
2b. STREET 617 NW Baker Rd			5. OWNERSHIP			
2c. CITY Stuart		2d. STATE FL	2e. ZIP CODE 34994		a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Frank Veldhuis, Vice President			b. SMALL BUSINESS STATUS Surveying Services (NAIC 541370)			
6b. TELEPHONE NUMBER 772-781-6400		6c. E-MAIL ADDRESS frankv@nsgeo.com		7. NAME OF FIRM <i>(If Block 2a is a Branch Office)</i> N/A		


8a. FORMER FIRM NAME(S) <i>(If any)</i> N/A			8b. YEAR ESTABLISHED N/A		8c. UNIQUE ENTITY IDENTIFIER N/A	
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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 <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
38	Land Surveyor	3		C16	Construction Surveying	
39	Geographic Information System	1		E10	Environmental and Natural Resources	
				G04	Geographic Information System S	
				H13	Hydrographic Surveying	
				L02	Land Surveying	
				S10	Surveying: Platting; Mapping; Floo	
				T04	Topographic Surveying and Mappi	
Other Employees						
Total		4				

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. Less than \$100,000		6. \$2 million to less than \$5 million	
b. Non-Federal Work		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		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 8-5-2021		
c. NAME AND TITLE Frank Veldhuis PSM, Vice President					

ARCHITECT – ENGINEER QUALIFICATIONS

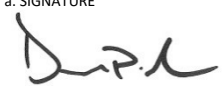
1. SOLICITATION NUMBER **RFP #20210093**

PART II – GENERAL QUALIFICATIONS

2a. FIRM (OR BRANCH OFFICE) NAME Andersen Andre Consulting Engineers, Inc.			3. YEAR ESTABLISHED 2005	4. DUNS NUMBER 36 104 27 52
2b. STREET 834 SW Swan Avenue			5. OWNERSHIP	
			a. TYPE Corporation	
2c. CITY Port St. Lucie	2d. STATE FL	2e. ZIP CODE 34983	b. SMALL BUSINESS STATUS No	
6a. POINT OF CONTACT NAME AND TITLE David P. Andre, P.E., President			7. NAME OF FIRM (if block 2a is a branch office)	
6b. TELEPHONE NUMBER (772) 807-9191		6c. E-MAIL ADDRESS dandre@aceinc.com		
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) Firm	(2) Branch			
12	Civil Engineer	1		B02	Bridges	1
23	Environmental Engineer	1		C10	Commercial Buildings (low rise), Shopping Centers	2
27	Foundation/Geotechnical Engineer	1		E02	Educational Facilities, Classrooms	1
58	Technician/Analyst	6		E09	Environmental Impact Studies, Assessments	2
				H07	Highways, Streets	2
				H11	Housing (Residential, Multi-family, Apartments)	1
				I06	Irrigation/Drainage	1
				L04	Libraries	1
				M06	Mining and Mineralogy	1
				O01	Office Buildings	2
				R04	Recreational Facilities	1
				R11	Rivers, Canals, Waterways	1
				S05	Soils & Geologic Studies, Foundations	4
				S13	Stormwater Handling Facilities	2
				T02	Testing and Inspection Services	4
				W01	Warehouses and Depots	1
				W02	Water Resources	1
				W03	Water Supply	1
				H09	Hospitals, Medical Facilities	2
TOTAL		9				


11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUE OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	5	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		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 July 29, 2021

c. NAME AND TITLE David P. Andre, P.E., President/Principal

ARCHITECT – ENGINEER QUALIFICATIONS			1. SOLICITATION NUMBER <i>(If any)</i> 20210093	
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>				
2a. FIRM (OR BRANCH OFFICE) NAME McNabb Hydrogeologic Consulting, Inc.		3. YEAR ESTABLISHED 2006	4. DUNS NUMBER 837954994	
2b. STREET 4600 Military Trail, Suite 116		5. OWNERSHIP		
2c. CITY Jupiter		2d. STATE Florida	2e. ZIP CODE 33458	
6a. POINT OF CONTACT NAME AND TITLE David McNabb, President		a. TYPE Corporation		
6b. TELEPHONE NUMBER 561-891-0763		6c. E-MAIL ADDRESS David@mcnabbhydroconsult.com		
8a. FORMER FIRM NAME(S) <i>(If any)</i> None		7. NAME OF FIRM <i>(If block 2a is a branch office)</i> See 2.a.		
		8b. YR. ESTABLISHED Not applicable	8c. DUNS NUMBER Not applicable	

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			
30	Geologist/Hydrogeologist	4		C15	Construction Management	3
				S04	Sewage Collection, Treatment, Disposal	2
				W02	Water Resources; Hydrology; Ground Water	2
	Other Employees	0	0			
Total		4	0			

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	4	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	4	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 August 4, 2021	
c. NAME AND TITLE David McNabb, President			

ARCHITECT- ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

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

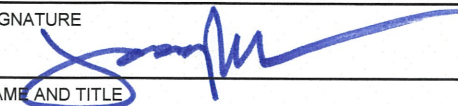
2a. FIRM (or Branch Office) NAME Ardaman & Associates, Inc. (Orlando Division / Corporate)			3. YEAR ESTABLISHED 1959	4. UNIQUE ENTITY IDENTIFIER 060253853
2b. STREET 8008 S. Orange Avenue			5. OWNERSHIP	
2c. CITY Orlando			2d. STATE FL	2e. ZIP CODE 32809
6a. POINT OF CONTACT NAME AND TITLE Jason M. Parker, P.E., Assistant Vice President			a. TYPE Corporation	
6b. TELEPHONE NUMBER (407) 855-3860		6c. E-MAIL ADDRESS jparker@ardaman.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
7. NAME OF FIRM (If Block 2a is a Branch Office) Ardaman & Associates, Inc. 8008 S. Orange Avenue Orlando, FL 32809				

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	ADMINISTRATIVE	56	30	D02	Dams (Earth; Rock); Dikes; Levees	5
08	CADD TECHNICIAN	17	15	E02	Educational Facilities; Classrooms	3
14	COMPUTER PROGRAMMER	2	2	E09	Environmental Impact Studies, Assessments or Statements	5
15	CONSTRUCTION INSPECTOR	54	20	F05	Forensic Engineering	1
23	ENVIRONMENTAL ENGINEER	4	1	H03	Hazardous, Toxic, Radioactive Waste Remediation	5
24	ENVIRONMENTAL SCIENTIST	5	2	H07	Highways; Streets; Airfield Paving; Parking Lots	7
27	FOUNDATION / GEOTECHNICAL ENGINEER	95	47	I03	Industrial Waste Treatment	7
29	GIS SPECIALIST	1	1	M06	Mining & Mineralogy	6
30	GEOLOGIST	10	9	S04	Sewage Collection, Treatment and Disposal	5
40	MATERIALS ENGINEER	3	1	S05	Soils & Geologic Studies; Foundations	7
58	TECHNICIAN / ANALYST	92	29	S07	Solid Wastes; Incineration; Landfill	6
62	WATER RESOURCES ENGINEER	1	1	T02	Testing & Inspection Services	7
	DRILLERS	40	11	W02	Water Resources; Hydrology; Ground Water	6
				A06	Airports; Terminals and Hangars; Freight Handling	5
				P12	Power Generation, Transmission, Distribution	6
					Instrumentation	3
					Port / Marina Projects	5
	Other Employees					
Total		380	169			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	4	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	9	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		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 July 1, 2021
c. NAME AND TITLE Jason M. Parker, P.E., Assistant Vice President	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
eRFP Number: 20210093


PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME C&W Engineering, Inc.			3. YEAR ESTABLISHED 2019	4. DUNS NUMBER
2b. STREET 6903 Vista Parkway N., Suite 10			5. OWNERSHIP	
2c. CITY West Palm Beach			2d. STATE FL	2e. ZIP CODE 33411
6a. POINT OF CONTACT NAME AND TITLE Michael Guida, P.E., President			7. NAME OF FIRM (If block 2a is a branch office)	
6b. TELEPHONE NUMBER (561) 642-5333		6c. E-MAIL ADDRESS mguida@cweng.us		
8a. FORMER FIRM NAME(S) (If any) Walker Enterprises, Inc. dba C&W Engineering			8b. YR ESTABLISHED 1992	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
9.03	Electrical Engineering - Industrial Facilities	3		E03	Electrical Engineering	4
8.05	Mechanical Engineering - Heating Systems			M05	Mechanical Engineering	4
8.06	Mechanical Engineering - Cooling Systems			M06	Mechanical Engineering	4
	Other Employees	2				
Total		5				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	None	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	4	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	4	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 August 11, 2021
c. NAME AND TITLE Michael Guida, P.E., President	

ARCHITECT-ENGINEER QUALIFICATIONS	1. SOLICITATION NUMBER <i>(if Any)</i>
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PART II – GENERAL QUALIFICATIONS
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Hillers Electrical Engineering, Inc.				3. YEAR ESTABLISHED 1994		4. DUNS NUMBER 876227059	
2b. STREET 23257 State Road 7, Suite 100				5. OWNERSHIP			
2c. CITY Boca Raton			2d. STATE Florida	2e. ZIP CODE 33428			a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Paul Hillers, President				b. SMALL BUSINESS STATUS Active			
6b. TELEPHONE NUMBER 561-451-9165			6c. E-MAIL ADDRESS phillers@hillersee.com				
8a. FORMER FIRM NAME(S) <i>(if any)</i> NA				8b. YR. ESTABLISHED NA		8c. DUNS NUMBER NA	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL 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			
21	Electrical & Instrumentation Design Engineers	6		A05	Airport NAVAIDS, ILS, Lighting, Aircraft Fueling	1
16	Electrical Construction Manager	6		A06	Airport Terminals and Hangars; Freight Handling	1
08	CADD Technician	3		E03	Electrical Studies and Design	3
02	Administrative	1		W03	Water Supply; Treatment and Distribution (Electrical and instrumentation design)	6
14	Computer Programmer	1		C15	Construction Management	5
	Other Employees					
Total		17				

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. Less than \$100,000		6. \$2 million to less than \$5 million	
b. Non-Federal Work		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		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 8/10/2021	
c. NAME AND TITLE Paul Hillers, President			

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

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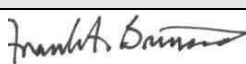
PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME McCafferty Brinson Consulting, LLC				3. YEAR ESTABLISHED 2006	4. DUNS NUMBER 785805883
2b. STREET 633 S. Andrews Avenue, Suite 402				5. OWNERSHIP	
2c. CITY Fort Lauderdale		2d. STATE Florida	2e. ZIP CODE 33301	a. TYPE LLC	
6a. POINT OF CONTACT NAME AND TITLE Frank A. Brinson, P.E. BCÉE, Vice-President/Principal Engineer				7. NAME OF FIRM (If block 2a is a branch office) N/A	
6b. TELEPHONE NUMBER 954 797-7100		6c. E-MAIL ADDRESS fbrinson@mccaffertybrinson.com			
8a. FORMER FIRM NAME(S) (If any) N/A				8b. YR ESTABLISHED N/A	8c. DUNS NUMBER N/A

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
23	Environmental Engineer	3	3	C15	Construction Management	3
24	Environmental Scientist	3	3	C18	Cost Estimating	2
				H12	Hydraulics and Pneumatics	1
				S13	Stormwater Handling and Facilities	1
				W02	Water Resources; Hydrology; Ground Water	1
				W03	Water Supply: Treatment and Distribution	3
				S03	Sewage Collection, Treatment and Disposal	1
	Other Employees					
Total		6	6			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
(Insert revenue index number shown at right)			
a. Federal Work	0	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	4	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	4	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 August 6, 2021
c. NAME AND TITLE Frank A. Brinson, P.E. BCÉE, Vice-President/Principal Engineer	

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

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


2a. FIRM (OR BRANCH OFFICE) NAME Hazen and Sawyer			3. YEAR ESTABLISHED 1951	4. UNIQUE ENTITY IDENTIFIER 13-2904652
2b. STREET 2101 NW Corporate Boulevard, Suite 301			5. OWNERSHIP	
2c. CITY Boca Raton	2d. STATE FL	2e. ZIP CODE 33431	a. TYPE Corporation (Employee Owned)	
6a. POINT OF CONTACT NAME AND TITLE Albert Muniz, PE, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (561) 997-8070	6c. E-MAIL ADDRESS amuniz@hazendandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer	
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	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. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	127	2	C15	Construction Management	9
06	Architect	12		C18	Cost Estimating	2
08	CADD Technician	97		D02	Dams (Earth, Rock)	6
10	Chemical Engineer	31		D03	Desalination (Process & Facilities)	2
12	Civil Engineer	191		D04	Design-Build	8
15	Construction Inspector	20		E03	Electrical Studies & Design	2
16	Construction Manager	80		E07	Energy Conservation	4
18	Cost Engineer/Estimator	7		E08	Engineering Economics	5
20	Economist	5		E09	Environmental Impact Studies	6
21	Electrical Engineer	66		H04	HVAC	2
23	Environmental Engineer	349	7	I03	Industrial Waste Treatment	1
24	Environmental Scientist	25		P05	Planning (Comm., Reg., Area, State)	6
30	Geologist	2		P06	Planning (Site, Install. and Project)	3
32	Hydraulic Engineer	29	1	P07	Plumbing and Piping Design	2
39	Landscape Architect	1		S04	Sewage Collect, Trmt and Disposal	10
41	Mechanical Engineer	43		S07	Solid Wastes	1
47	Planner; Urban/Regional	2		S10	Surveying; Platting; Mapping	2
53	Scheduler	1		S11	Sustainable Design	6
57	Structural Engineer	39	2	S13	Stormwater Handling & Facilities	9
62	Water Resources Engineer	57		T02	Testing & Inspection Services	5
	Other Employees	7	2	W02	Water Resources; Hydrology; Ground Water	8
	Total	1191	15	W03	Water Supply; Trmt and Distribution	9

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE January 1, 2021
c. NAME AND TITLE Albert Muniz, PE, Vice President	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

eRFP Number 20210093

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME Giffels-Webster Engineers, Inc.			3. YEAR ESTABLISHED 1983		4. UNIQUE ENTITY IDENTIFIER 170984389	
2b. STREET 900 Pine Street, Suite 225			5. OWNERSHIP			
2c. CITY Englewood			2d. STATE FL		2e. ZIP CODE 34223	
6a. POINT OF CONTACT NAME AND TITLE Jonathan H. Cole, P.E., President			a. TYPE Florida Corporation			
6b. TELEPHONE NUMBER 941-475-7981			6c. E-MAIL ADDRESS jcole@gwefl.com			
			b. SMALL BUSINESS STATUS N/A			
			7. NAME OF FIRM <i>(If Block 2a is a Branch Office)</i> N/A			
8a. FORMER FIRM NAME(S) <i>(If any)</i> N/A			8b. YEAR ESTABLISHED		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 <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
02	Administrative	3		C15	Construction Management	3
08	CADD Technician	4		H07	Highways, Streets, Airfield, Parking	2
12	Civil Engineer	3		S04	Sewage Collection	4
16	Construction Manager	1		S09	Structural Design	1
	Structural Design	1		W03	Water Supply & Distribution	3
	Other Employees					
Total		12				5

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	0	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work		2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work		3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million	10. \$50 million or greater	
		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 08/06/2021
c. NAME AND TITLE Jonathan H. Cole, P.E., President	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*

20-001-PROFSERVICES

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME Wekiva Engineering, LLC			3. YEAR ESTABLISHED 2016	4. UNIQUE ENTITY IDENTIFIER 009899161
2b. STREET 711 N Orange Ave, Suite A			5. OWNERSHIP	
2c. CITY Winter Park	2d. STATE FL	2e. ZIP CODE 32789	a. TYPE LLC	
6a. POINT OF CONTACT NAME AND TITLE David S. Morris, Member			b. SMALL BUSINESS STATUS None	
6b. TELEPHONE NUMBER 321.972.4989			7. NAME OF FIRM <i>(If Block 2a is a Branch Office)</i>	
6c. E-MAIL ADDRESS david@wekivaengineering.com				
8a. FORMER FIRM NAME(S) <i>(If any)</i>			8b. YEAR ESTABLISHED	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 <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
57	Structural Engineering	4		4	Sewage Collection Treatment	3
				3	Water Supply	3
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	4
c. Total Work	4

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

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

a. SIGNATURE 	b. DATE 8/6/2021
c. NAME AND TITLE David S. Morris, Member	

Request for Taxpayer Identification Number and Certification

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

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

Print or type. See Specific Instructions on page 3.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.</p>	
	<p>2 Business name/disregarded entity name, if different from above</p> <p>Holtz Consulting Engineers, Inc.</p>	
	<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</p> <p><input type="checkbox"/> C Corporation</p> <p><input checked="" type="checkbox"/> S Corporation</p> <p><input type="checkbox"/> Partnership</p> <p><input type="checkbox"/> Trust/estate</p> <p><input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____</p> <p>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.</p> <p><input type="checkbox"/> Other (see instructions) ▶ _____</p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from FATCA reporting code (if any) _____</p> <p><small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt. or suite no.) See instructions.</p> <p>270 South Central Boulevard, Suite 207</p>	<p>Requester's name and address (optional)</p>
	<p>6 City, state, and ZIP code</p> <p>Jupiter, FL 33458</p>	
	<p>7 List account number(s) here (optional)</p>	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is 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 *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
			-				-			
or										
Employer identification number										
0	1		-	0	8	6	0	9	8	3

Part II Certification

Under penalties of perjury, I certify that:

- 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.

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.

Sign Here	<p>Signature of U.S. person ▶ </p>	<p>Date ▶ 1-11-2021</p>
------------------	------------------------------------	--------------------------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

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.

Purpose of Form

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

- Form 1099-INT (interest earned or paid)
- Form 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)

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

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



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/17/2021

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

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

PRODUCER CAL Risk Management 23 Eganfuskee Street Suite 102 Jupiter, FL 33477	CONTACT NAME: Suzanne Nelson	
	PHONE (A/C, No, Ext): (561) 868-6291	FAX (A/C, No): (561) 427-6730
	E-MAIL ADDRESS: Snelson@callc.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Crum & Forster Specialty Ins	44520
INSURED Holtz Consulting Engineers, Inc. 270 S. Central Boulevard Suite 207 Jupiter, FL 33458	INSURER B : Travelers Casualty & Surety Company	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR General Aggregate ap GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	EPK135458	5/15/2021	5/15/2023	EACH OCCURRENCE \$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
							MED EXP (Any one person) \$ 10,000
							PERSONAL & ADV INJURY \$ 2,000,000
							GENERAL AGGREGATE \$ 4,000,000
							PRODUCTS - COMP/OP AGG \$ 4,000,000
							\$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	EPK135458	5/15/2021	5/15/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
							BODILY INJURY (Per person) \$
							BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (Per accident) \$
							\$
A	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$			EFX116265	5/15/2021	5/15/2023	EACH OCCURRENCE \$ 4,000,000
							AGGREGATE \$ 4,000,000
							\$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	X	UB9K5640712047G	5/15/2021	5/15/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER
							E.L. EACH ACCIDENT \$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liabili			EPK135458	5/15/2021	5/15/2023	Agg \$4M, Per Occur 2,000,000
A	Pollution Liability			EPK135458	5/15/2021	5/15/2023	Agg \$4M, Per Occur 2,000,000

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


Project: Glades-Tradition Reuse Water Main, Contract #20200081

The certificate holder is included as an additional insured for ongoing and completed operations for general liability per forms EN0111 & EN0320 when required by written contract. General Liability is primary and non-contributory when required by written contract. Waiver of subrogation applies to general liability, and workers compensation when required by written contract. Excess Liability extends over General Liability, Employers Liability and Prof/Pollution Liability. Cancellation per policy terms and conditions.

Certificate holder is expanded to read: City of Port Saint Lucie, a municipality of the State of Florida, its officers, employees and agents and shall include Contract #20200081 - Design Services for the Glades - Tradition Reuse Water Main Project

CERTIFICATE HOLDER

CANCELLATION

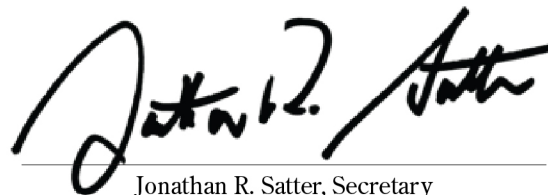
City of Port Saint Lucie 121 SW Port Saint Lucie Blvd. Port Saint Lucie, FL 34985	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

State of Florida

Woman & Minority Business Certification

Holtz Consulting Engineers, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
09/01/2020 to 09/01/2022



Jonathan R. Satter, Secretary
Florida Department of Management Services



Licensee

Name: **HOLTZ CONSULTING ENGINEERS. INC.** License Number: **26960**
 Rank: **Registry** License Expiration Date:
 Primary Status: **Current** Original License Date: **05/05/2006**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
45246	Current, Active	HOLTZ, ANDREA PADILLA	Registry	05/05/2006	Professional Engineer	02/28/2023



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MIRANDA, CHRISTINE J.

2914 SE BELLA ROAD
PORT SAINT LUCIE FL 34984

LICENSE NUMBER: PE60906

EXPIRATION DATE: FEBRUARY 28, 2023

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ROBINSON, CURTIS DUANE

270 SOUTH CENTRAL BOULEVARD
SUITE 207
JUPITER FL 33458

LICENSE NUMBER: PE65685

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FECKO, BENJAMIN JOSEPH

1718 NE 21ST TERRACE
JENSEN BEACH FL 34957

LICENSE NUMBER: PE70865

EXPIRATION DATE: FEBRUARY 28, 2023

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HOLTZ, ANDREA PADILLA

270 SOUTH CENTRAL BOULEVARD
SUITE 207
JUPITER FL 33458

LICENSE NUMBER: PE45246

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HOLTZ, DAVID FORREST

270 SOUTH CENTRAL BOULEVARD
SUITE 207
JUPITER FL 33458

LICENSE NUMBER: PE42595

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LARDIERI, LAWRENCE ANTHONY

4928 VINE CLIFF WAY EAST
PALM BEACH GARDENS FL 33418

LICENSE NUMBER: PE26948

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FOWLER, STEPHEN R. JR.

88 YACHT CLUB PLACE
TEQUESTA FL 33469

LICENSE NUMBER: PE69039

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PAYMER, MATTHEW S.

4910 BONSAI CRICLE
UNIT 208
PALM BEACH GARDENS FL 33418

LICENSE NUMBER: PE88732

EXPIRATION DATE: FEBRUARY 28, 2023

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BARRON, ROBERT H.

216 GLENEAGLES DR
ATLANTIS FL 33462

LICENSE NUMBER: PE91550

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Florida Department of Agriculture and Consumer Services
 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LB6852**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

BETSY LINDSAY INC
 7997 SW JACK JAMES DR
 STUART, FL 34997-7242

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

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



Florida Department of Agriculture and Consumer Services
 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS4724**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

ELIZABETH ANN LINDSAY
 7997 SW JACK JAMES DR
 STUART, FL 34997

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

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 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS3878**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

ERNESTO JOSE GARCIA
 1049 SE O'DONNELL LN
 PORT SAINT LUCIE, FL 34983-2658

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

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



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 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LB7217**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

NORTHSTAR GEOMATICS INC
 617 NW BAKER RD
 STUART, FL 34994-1032

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

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



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 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS4350**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

GREGORY STEVEN FLEMING
 2433 SE WOOD AVE
 PORT ST LUCIE, FL 34952-6565

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE

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 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS6582**
 Expiration Date February 28, 2023

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

FRANK CHARLES VELDHUIS
 5820 NW ZENITH DRIVE
 PORT ST LUCIE, FL 34986

Nicole Fried

NICOLE "NIKKI" FRIED
 COMMISSIONER OF AGRICULTURE



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ANDRE, DAVID P.

370 NE TOWN TERRACE
JENSEN BEACH FL 349570000

LICENSE NUMBER: PE53969

EXPIRATION DATE: FEBRUARY 28, 2023

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ANDERSEN, PETER GREGERS

11419 165TH ROAD NORTH
JUPITER FL 33478

LICENSE NUMBER: PE57956

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Halsey Beshears, Secretary



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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

DUFRESNE, DOUGLAS PAUL

4830 LONSDALE CIRCLE
ORLANDO FL 32817-3145

LICENSE NUMBER: PG1527

EXPIRATION DATE: JULY 31, 2022

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Halsey Beshears, Secretary



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DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

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PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

MCNABB, DAVID MICHAEL

MCNABB HYDROGEOLOGIC CONSULTING INC
4600 MILITARY TRAIL, SUITE 116
JUPITER FL 33458

LICENSE NUMBER: PG1461

EXPIRATION DATE: JULY 31, 2022

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GUIDA, MICHAEL A.

6903 VISTA PARKWAY N
STE 10
WEST PALM BEACH FL 33411

LICENSE NUMBER: PE60755

EXPIRATION DATE: FEBRUARY 28, 2023

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LUTHER, MARK E

8650 WATERCREST CIRCLE WEST
PARKLAND FL 33076

LICENSE NUMBER: PE48801

EXPIRATION DATE: FEBRUARY 28, 2023

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WIN, THEIR

7085 NW 70TH TER
PARKLAND FL 33067

LICENSE NUMBER: PE65722

EXPIRATION DATE: FEBRUARY 28, 2023

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CROYLE, DENNIS JAY

900 PINE ST
SUITE 225
ENGLEWOOD FL 34223

LICENSE NUMBER: PE82287

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COLE, JONATHAN H

900 PINE STREET
SUITE 225
ENGLEWOOD FL 34223

LICENSE NUMBER: PE36384

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FRANKO, JOSEPH JOHN

2101 N.W. CORPORATE BOULEVARD
BOCA CORPORATE CENTER
BOCA RATON FL 33431

LICENSE NUMBER: PE48077

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BRINSON, FRANK ALVAR

633 S. ANDREWS AVENUE
SUITE 402
FT. LAUDERDALE FL 33301

LICENSE NUMBER: PE51313

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MORRIS, DAVID S.

606 CLAYTON ST
ORLANDO FL 32804

LICENSE NUMBER: PE74717

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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.



**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.



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 8/13/21



**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.



HOLTZ CONSULTING ENGINEERS, INC.
607 S.W. St. Lucie Crescent, Suite 103, Stuart, FL 34994
Phone: (772) 919-4905 Fax: (772) 919-4909



August 16, 2021

City of Port St. Lucie
121 S.W. Port St. Lucie Boulevard
Port St. Lucie, FL 34984-5099

Subject: Sealed Electronic Proposal #20210093 Request for Proposals (eRFP)
Continuing Engineering Services for Utility Projects

Dear Selection Committee Members,

Holtz Consulting Engineers, Inc. (HCE) is pleased to submit our Proposal for providing continuing professional engineering services to the City of Port St. Lucie. HCE is a local engineering firm with offices in Stuart, Jupiter, Okeechobee, and Boca Raton. We focus on providing quality, cost-effective, and responsive engineering service to water and wastewater utilities in South Florida including to the City of Port St. Lucie Utility Services Department. A summary of our experience, capabilities, resources, and team is included on the following pages.

HCE specializes in water and wastewater engineering, including potable water supply, treatment, and distribution as well as wastewater collection, treatment, reuse, and disposal. A summary of our related project experience in the past several years is provided in our SF 330 form provided under File #3 as well as later in this document. HCE has immediate staff availability to provide timely and efficient service to the City of Port St. Lucie on your utility infrastructure projects and are fully committed to maintaining our long-term professional relationship that ensures your continued success. We take pride in completing our projects on time and within budget, with an emphasis on quality and helping you achieve your goals.

We appreciate the opportunity to submit our response and qualifications package. We believe that the City of Port St. Lucie will benefit from selecting HCE to provide engineering consulting services because of our staff's expertise, qualifications and relevant experience, and the efficient size, structure, and location of our firm and our subconsultants. All of us at HCE as well as our team of subconsultants are committed to providing the City of Port St. Lucie with responsive, quality, and cost-effective utility engineering service. We look forward to the opportunity to discuss the benefits to the City of Port St. Lucie of again selecting HCE as one of your general engineering consultants to help you provide outstanding service to your customers.

Sincerely,

A handwritten signature in blue ink, appearing to read 'A. Holtz', is written over the typed name and title.

Andrea Holtz, PE
President



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EXECUTIVE SUMMARY

Holtz Consulting Engineers, Inc. (HCE) is ready and eager to continue assisting the City of Port St. Lucie (City) with their upcoming continuing service utility projects. HCE and our team's extensive experience with data collection, modeling, water and wastewater design, permitting, and construction management will provide the most qualified team for the City.

HCE specializes in water and wastewater engineering, including potable water supply, treatment, and distribution as well as wastewater collection, treatment, reuse, and disposal. In addition, we have assembled an experienced and respected team to ensure we cover the full range of services listed in this RFQ. Our team members include:

- **Ardaman & Associates, Inc.** for raw water well evaluation, groundwater modeling, permitting, and design
- **McNabb Hydrogeologic Consulting, Inc.** for deep well evaluation, permitting, and design
- **Giffels-Webster Engineers Inc.** for Vacuum System evaluation and design
- **C&W Engineering** and **Hillers Engineering** for electrical and SCADA evaluation and design
- **McCafferty Brinson** and **Hazen and Sawyer** for additional utility engineering expertise
- **Wekiva Engineering** for Structural evaluation and design
- **Andersen Andre Consulting Engineering** for Geotechnical Engineering
- **Betsy Lindsay, Inc.** and **Northstar Geomatics** for Survey
- **Underdog Utility Locating** for Underground Utility Locating

As we have demonstrated during our current work with the City, HCE has the willingness and ability to meet the time and budget requirements of all engineering assignments entrusted to us by the City of Port St. Lucie. Our firm was founded on the philosophy that our Client's needs come first and we are dedicated to doing whatever it takes to meet the schedule and budget requirements on all projects. Our size, location and efficient structure allow us to provide very cost-effective engineering service, without requests for additional compensation for routine changes in project design and scope of work.



HCE's Professional Engineers aren't afraid to work hard to get the job done

Our staff has extensive prior successful experience providing timely and cost-effective engineering service to all our utility Clients and we have the staff availability and expertise to meet the time and budget requirements of all tasks for the City. Since we are committed to maintain our long-term professional relationship with the City, we will work hard to ensure that all tasks are completed to the full satisfaction of the City.

We understand the concept of designing a project with the Client’s budget in mind. We listen to our Clients to understand their needs and budget constraints and do not have a “one size fits all” approach to design. We will monitor and update accordingly construction cost estimates and communicate effectively with City staff to ensure that construction projects are completed within budget. Once a project is under construction, we will endeavor to work closely with contractors and the City to develop a win-win approach, and help them meet their schedule, while controlling costs, to the benefit of the City.

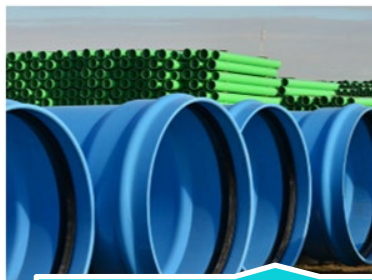
GENERAL SCOPE OF SERVICES

HCE was founded in 2006 to assist local municipalities such as the City of Port St. Lucie with high-quality, responsive, and efficient engineering services on utility infrastructure and facility improvement projects. HCE is a certified minority and small-business that specializes in water/wastewater engineering for local public utilities. The firm’s founders and owners, Andrea and David Holtz, each bring over 35 years of comprehensive engineering and management experience to our Clients and have guided the company from a start-up to a full-service firm with ten professional engineers, two outstanding project engineers, two civil/mechanical designer/drafters, and four construction managers/inspectors.

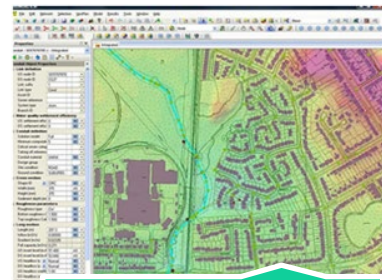
We specialize in providing responsive and efficient utility engineering services to Clients located primarily in St. Lucie, Martin, Okeechobee, and Palm Beach Counties. Our engineering and management expertise include the following areas:



Water, Wastewater and Reclaimed Water Treatment Facilities



Water, Wastewater and Reclaimed Water Collection and Distribution Systems



Utility Master Planning, Hydraulic Modeling, and GIS



Regulatory Compliance and Permitting for Water and Wastewater Facilities



Well Construction, Rehabilitation and Abandonment



Database and Information System Development and Asset Management

- Wastewater collection/transmission, treatment, reuse, and disposal.
- Water treatment, storage, and distribution.
- Water supply wells and raw water pumping and conveyance.
- Permitting of infrastructure and plant improvements.
- Reclaimed water production, storage, and distribution systems.
- Biosolids treatment and handling systems.
- Master planning, capital improvement planning, budgeting assistance, and asset management.
- Hydraulic modeling of water distribution, raw water conveyance, wastewater collection, and reclaimed water distribution systems.
- Construction management services including inspection and start-up services.
- Water resource management and alternative water supply.
- Program Management.
- Grant writing and administration.

HCE and our team members provide significant experience and capabilities in all phases of project implementation, including planning, hydraulic modeling, condition assessments, rehabilitation, preliminary engineering and final design, public relations and communication, grant writing and administration, permitting, procurement, construction services, and project start-up and close-out.

PROGRAM MANAGEMENT SERVICES

The HCE team has extensive experience working as Program Management professionals and have already provided many of the services listed in the RFQ to the City as part of our existing continuing services contact. A few of these examples include:

- Preparation of a Bond Feasibility Report for the City’s 2021 Series Utility System Revenue Bonds.
- Serving as liaison between the City and state and federal agencies for various grant programs that relate to the Utility System’s Department.
- Providing commercial plan reviews on behalf of the Utility System’s Department for as part of the City’s site plan approval process.



In addition, key staff have served as program management professionals in some high-profile projects. Notably, Larry Lardieri, PE, now with HCE, previously served five (5) plus years as chief engineer for the Consent Decree Program Manager/Construction Manager for Miami-Dade Water and Sewer Department. The \$1.965B consent decree included projects (over 250 total) such as force mains from 8" to 72" in size, pump stations ranging from 0.3 MGD to more than 20.0 MGD in size, and three wastewater treatment plans processing over 308 MGD. In this role, Mr. Lardieri provided technical input and support for design and construction projects including:

- Technical Memorandums, Basis of Design Reports (BODRs), wastewater collection and transmission system modeling reports, design consultant project design submittals/deliverables, permitting documents and agency RFIs, etc.;
- Technical issues/RFIs that arose during project construction.

HCE is a general engineering consultant to the East Central Regional Water Reclamation Facility (ECRWRF) Board, which manages the 70-mgd ECRWRF. David Holtz, PE has served in this capacity since the Board's inception in 1992. He has successfully assisted in the management and operation of the ECRWRF and implementation of numerous improvements to and expansion of the facility. His responsibilities include implementation of capital improvements projects, regulatory support, planning and budgeting assistance and assisting with operations and maintenance.

HCE has also provided temporary in-house staff as requested to various clients. Currently, we have on-going agreements with Florida Power & Light and Okeechobee Utility Authority to provide part-time and full-time in-house assistance serving as an extension of the client's staff. HCE has also provided staff to in management positions at South Martin Regional Utility and East Coast Regional Water Reclamation Facility.

The HCE team is prepared to assist the City in their needs as related to program management. On our team, we have Hazen and Sawyer, a large national firm with an established Program Management group that has managed large municipal programs comprised of projects with a common goal, spanning multiple sites, involving dozens of subconsultants, and contracts. As a team we are prepared to provide the full range of any requested program management services that may be required by the City, including but not limited to:

- Planning and prioritization for future City projects
- Project standards development
- Preparation of scopes, contracts, designs, bid documents
- Quality control and review of scopes, contracts, design, and bid documents prepared by others
- File management for the City
- Scheduling and critical path analysis
- Value engineering
- Specialized expertise on engineering topics
- Integrated support as an extension of the City's staff

- Contractor and subcontractor management
- Community outreach and public meetings
- Permitting support with local, state, and federal agencies
- Reporting to regulatory and grant agencies

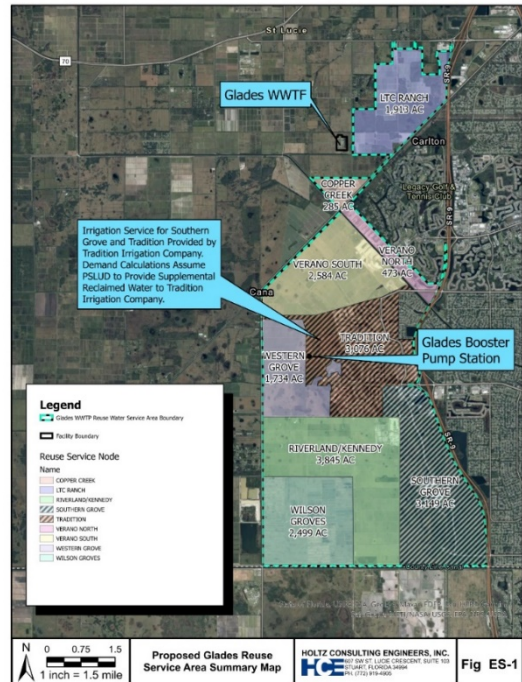
PLANNING SUPPORT

HCE has extensive experience with planning, including hydraulic modeling and associated engineering evaluation of water and wastewater systems. HCE staff includes two (2) certified master modelers who have experience in hydraulic modeling utilizing both Innovyze software from InfoWorks and Bentley’s WaterGEMS software to analyze water distribution and force main transmission systems. HCE staff has developed, verified, and calibrated multiple hydraulic models utilizing field-collected pressure data, flow test data, and plant data for several utilities. If requested, HCE will work closely with City staff to field calibrate the hydraulic model of Port St. Lucie’s water distribution and wastewater collection system. Once the models accurately reflect the existing systems, they will be utilized for master planning and capital improvement planning and design purposes. The hydraulic models can also be used for feasibility analyses, to determine the effects of growth, pump selection, fire flow, and water age and quality analysis. HCE understands that a hydraulic model is a valuable tool for planning purposes and should be regularly updated and calibrated to ensure accuracy in evaluating current system performance and the effects of planned changes to the system.

HCE understands the need to accurately model the City of Port St Lucie’s existing water distribution and wastewater collection system to aid staff in determining where new mains may need to be constructed to provide system redundancy and reliability. The modeling can also be used to determine impacts to existing pump stations when discharging to alternate routes.

In support of previous projects, HCE staff has created models for the City of Port St. Lucie including:

- Glades to Tradition Reuse Main – existing, proposed, and future reuse system from Glades WWTF to each of the developments in the City west of I-95
- Naranja Low-Pressure Main – existing grinder pump and STEP system in the River Park area and future main extensions




HCE’s modeling efforts for the Glades to Tradition project has helped the City plan for the future reclaimed water needs of the system

HCE staff has also assisted in the development of hydraulic models for the following entities:

- Seacoast Utility Authority
- Martin County Utilities
- South Martin Regional Utility
- City of Lake Worth Beach
- Loxahatchee River District

HCE's extensive modeling experience will enable HCE to help the City effectively evaluate the hydraulic performance and constraints of your existing water and wastewater systems, and plan for optimal improvements to provide capacity for future needs and secondary routes for conveyance to provide redundancy and enhance overall system reliability.



HCE HAS RECENTLY PROVIDED SUCCESSFUL PLANNING SUPPORT TO THE CITY IN THE COMPLETION OF THE ENGINEERING REPORT IN SUPPORT OF THEIR CURRENT BOND ISSUANCE AND THE DEVELOPMENT OF A PRIORITIZATION AND COST TOOL FOR THE REHABILITATION AND UPGRADE OF THEIR LIFT STATIONS

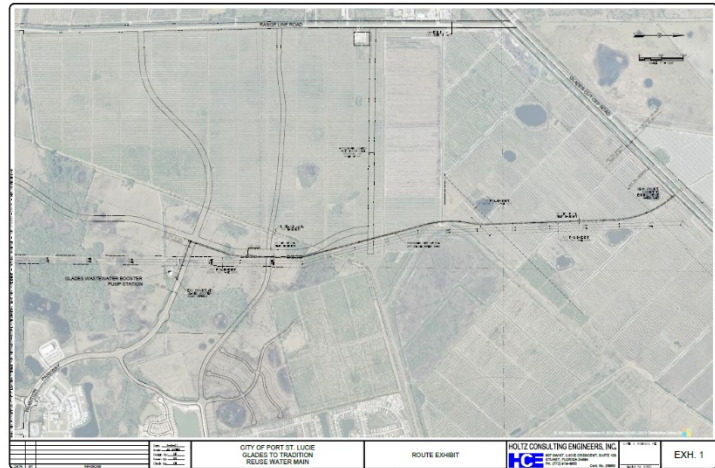
In addition to hydraulic modeling and master planning, HCE can assist City staff in the preparation of other technical reports and studies, including feasibility reports, preliminary engineering reports, operation and maintenance manuals and asset management. We have prepared feasibility studies and O&M Manual updates for several utilities recently. Andrea Holtz, Christine Miranda, and Matthew Paymer in particular have extensive asset management experience, and recently served as Asset Management Team Members for both the City of West Palm Beach, Palm Beach County Water Utilities, and Seacoast Utility Authority as they implemented utility-wide Asset Management Programs. We have also assisted local utilities with prioritization of capital improvements and renewal/replacement projects based on cost, risk, criticality, and benefits achieved to optimize our clients return on investment.

DESIGN SUPPORT

A brief summary of HCE's experience with similar types of successful past projects is included on the following pages. Our team has a wealth of experience providing quality and responsive general engineering consulting services to local utilities and have successfully implemented many similar projects to the types of projects the City of Port St. Lucie has planned for the upcoming future. We specialize in water distribution and wastewater collection, water and wastewater treatment, reuse and disposal, stormwater, permitting and construction, with a focus on providing timely and efficient service. Please refer to File #3 and the projects contained in our 330 resume for some additional project experience provided by HCE.

City of Port St. Lucie Glades-Tradition Reuse Water Main Project

HCE is providing professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for an approximately 11,850 linear foot extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension will start from the reuse water main's existing termination near Glades Cut-off Road and extend to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way. The reuse water main extension will allow the City to provide reuse water sales to the Tradition Irrigation Company and provide the transmission for future expansion of the reuse system to developments including Verano, Western Grove, Riverland-Kennedy, and Wilson Groves.



As part of this project, HCE estimated future reuse demand for approximately 20,000 acres of service area in the southwest area of the City. HCE performed hydraulic modeling using the reuse demand estimates to determine the proposed water main extension sizing. The hydraulic modeling effort also extended to analyzing future expansion of the system as the SW area of the City is built-out. A preliminary design report was prepared summarizing the demand estimates, modeling results, and future improvements required as the system expands.

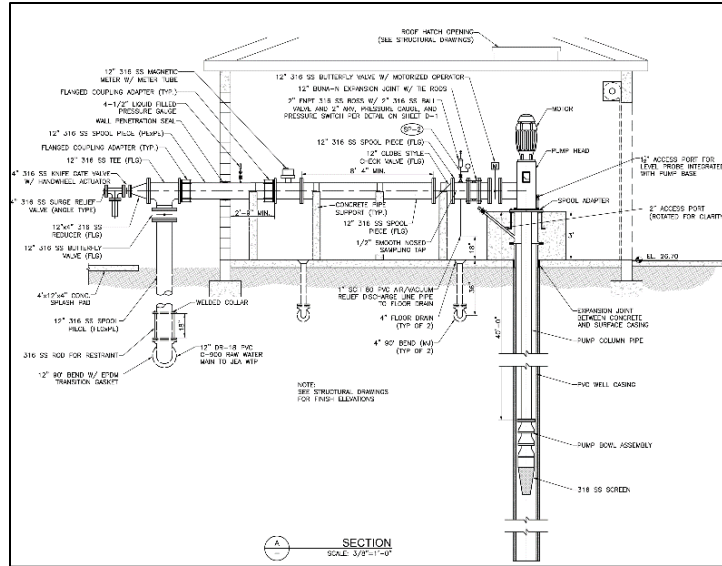
The reuse water main will be 24-inch diameter and be designed to be primarily installed by open cut.; however, horizontal directional drills will be required in three (3) areas to cross an existing wetland and existing canals along the route. HCE is also coordinating crossing three FPL easements with the new reuse main.

City of Port St. Lucie Upper Floridan Aquifer Supply Well F-19

HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant.

The project design includes the new well, a well head with an 1,840-gpm vertical turbine well pump, a 250 kW LP standby generator, a concrete block building, concrete driveway, fencing, and other site improvements. HCE's team includes a hydrogeologist for well design, an electrical engineer for the electrical and communications design, and a structural engineer for the building design.

As part of this project HCE will be connecting to a new raw water main and fiber optic cable being constructed by the City from the JEA Water Treatment Plant and across Interstate 95 to the site. Coordination is required between HCE and the City on the raw water main project due to limited site access for construction mobilization and time constraints to get the well into service. HCE is also providing permitting with the Florida Department of Environmental Protection and South Florida Water Management District for the new well.



City of Port St. Lucie Naranja Low Pressure and Force Mains Improvement Project

HCE provided professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for approximately 7,050 linear feet of new low pressure main and force main. The project was split into three phases with Phase 1 and 2 consisting of low-pressure main improvements in the neighborhood south of Prima Vista Blvd. between Floresta and Sandia Drives. Phase 3 consisted of 1,650 linear feet of force main replacement along Prima Vista Blvd.

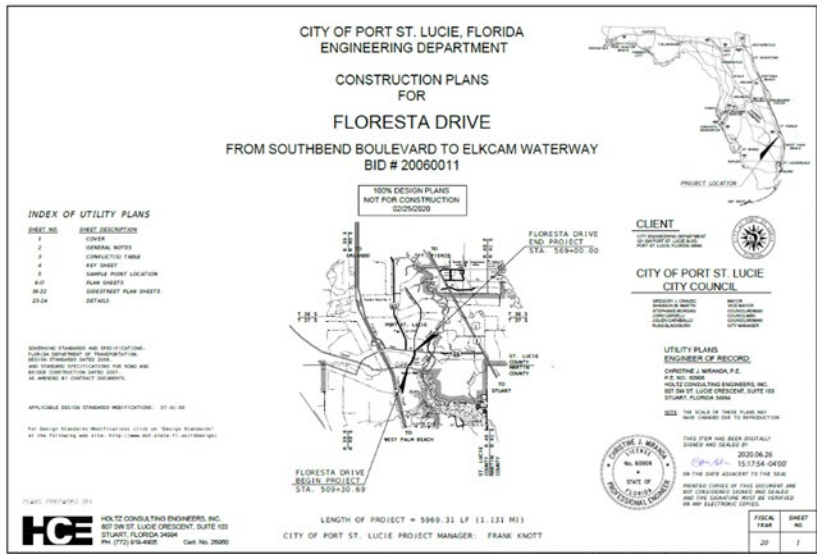
The wastewater collection system for the project discharges to the City’s Lift Station NP-01. The existing low-pressure mains and force mains discharge to gravity sewers upstream of the lift station. Wet weather events have caused backups in the system. The project involves the construction of 6” and 8” low-pressure main extensions that will tie directly to Lift Station NP-01, eliminating the discharge of these mains and reducing the loading on the gravity system. In addition, Phase 3, replaces and extends the existing 6” force main along Prima Vista Blvd. and provide a direct connection to the City’s force main downstream of NP-01. Phase 3 eliminates the existing force main’s discharge to the gravity system and Lift Station NP-01.

As part of this project, HCE performed hydraulic modeling and an evaluation of the existing and proposed low-pressure main systems to determine the appropriate force main diameter. The force main was designed to be constructed primarily of HDPE and be installed via the horizontal direction drill method throughout the project.

Phase 1 and Phase 2 of the project were fast-tracked so the low-pressure main could be constructed to sooner alleviate the effects of potential hurricanes or other severe weather events.

City of Port St. Lucie Floresta Drive Utility Adjustment Plans

HCE provided design engineering services for the relocation of water mains, low pressure force mains, and force mains within the City of Port St. Lucie along approximately three miles of Floresta Drive from Elkcama Waterway to Prima Vista Boulevard. As part of this project, HCE prepared drawings to depict the proposed utility relocations in accordance with FDOT and City of Port St. Lucie Standards. Utility relocations were performed as a response to proposed widening of the roadway, and new stormwater improvements.



City of Boca Raton ISIP Projects Neighborhood Water Main and Force Main Replacements Project



HCE was selected by the City of Boca Raton to perform utility locating/geotechnical investigation, survey, design, permitting, bidding, and engineering construction services for comprehensive infrastructure improvements in three (3) existing neighborhoods and two (2) community corridors within the City of Boca Raton utility network. Infrastructure improvements have included water main

replacement, force main replacement, gravity sewer improvements, roadway construction, sidewalk improvements, landscaping, as well as other right-of-way improvements. Water main and force main improvement installation means and methods have included open-cut and horizontal directional drilling techniques, including a 16" Fusible PVC water main crossing under I-95. HCE has completed design and permitting for the Country Club Village neighborhood as well as the SW 18th Avenue and SW 12th Avenue corridors. These three project areas have been successfully bid, with construction having begun in the Country Club Village project area in July of 2020, the SW 12th Avenue corridor in February 2021, and SW 18th Avenue corridor in March 2021. Design for the second neighborhood, the Boca Square area, is nearing completion and design of the final community, the Old Floresta, Lake Floresta Park, and Tunison Palms area, commenced in January 2021. These projects have required permitting through the Palm Beach County Health Department, Florida Department of Transportation, Palm Beach County Engineering, and Lake Worth Drainage District.

Village of Tequesta Asbestos Cement Water Main Replacement Project



The project includes engineering services for the surveying, utility locating, geotechnical engineering, design, permitting, bidding, and construction of approximately 11,000 feet of potable water main to replace the existing AC pipe along various areas within the Village’s service area. Included in the design will be the replacement of water services from the new water mains to the existing water meters, new fire hydrants, and the grouting/abandonment of the existing AC pipe after the new water mains are placed into service.

Palm Beach County Water Utilities Department Lift Station Rehabilitation Program

HCE is responsible for the rehabilitation of 60 of Palm Beach County’s wastewater pump stations. This effort has consisted of assessment and prioritization of the County’s lift stations based on condition and risk of failure, followed by a variety of rehabilitation and upgrades to the sewage pumping system. As part of this effort, civil, mechanical, and electrical items have been assessed and identified for replacement in order to meet PBC minimum design standards where possible. HCE has provided survey, design, and bidding assistance for the rehabilitation of these 60 stations in two phased bid packages. HCE has provided assistance with shop drawing review and building department permitting during the construction phase of this project.



Seacoast Utility Authority Ground Storage Tank Nos. 5, 6 and 7 at the Hood Road Water Treatment Plant

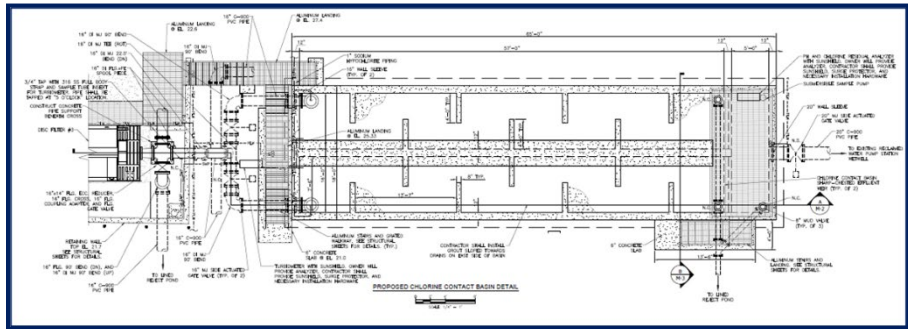


HCE provided professional services for the surveying and site investigation, design, permitting, bidding, and construction administration of the addition of three new 2-MG prestressed-concrete ground storage tanks (GST) at the Hood Road Water Treatment Plant (WTP), including associated water main piping extensions, valves and fittings, electrical and instrumentation and site preparation. Work also included various

yard piping improvements in the vicinity of the new GSTs.

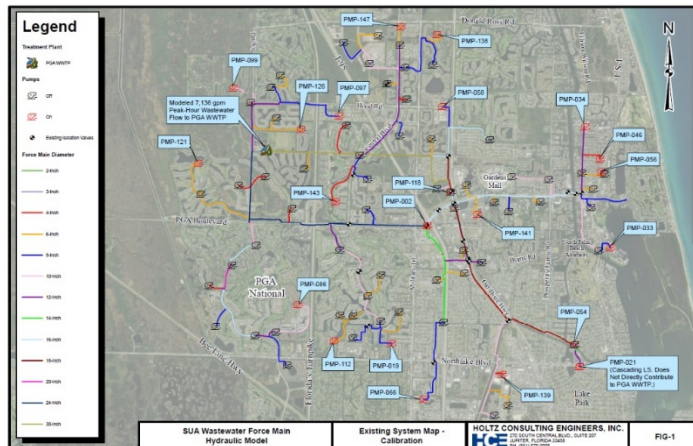
South Martin Regional Utility Wastewater Treatment Plant Chlorine Contact Basin and Filters

HCE is providing design, bidding, and permitting services for a new chlorine contact basin and new disc filter at the South Martin Regional Utility (SMRU) wastewater treatment plant in Hobe Sound, Florida. The new



chlorine contact basin (CCB) is being designed with two chambers operating in parallel and is sized such that one basin can continue to treat 50% of the total design flow with one chamber out of service, providing the plant with Class I reliability. The new CCB will replace the plant’s existing series of chlorine contact chambers and provide the plant with greater disinfection capacity in anticipation of greater future flows. The new chlorine contact basin has been designed to include pH, chlorine residual, and turbidity monitoring instrumentation. Additionally, this project includes the installation of a third disc filter and associated piping to expand the plant’s filtration capacity. This project includes significant re-routing of existing plant piping, demolition of existing structures, and construction of new facilities. In addition to providing engineering design, HCE assisted the utility in obtaining a minor permit modification for the project through the Florida Department of Environmental Protection. HCE assisted with the public advertising and contractor selection process. HCE provided shop drawing review, on-site construction observation, responded to contractor’s requests for information, and coordinated shutdown and tie-in activities with SMRU. The project is currently in the start-up and testing phase.

Seacoast Utility Authority Hydraulic Modeling – Potable Water Distribution, Reclaimed Water Transmission, and Wastewater Transmission Systems



HCE assisted Seacoast Utility Authority (SUA) with developing calibrated hydraulic models of SUA’s potable water distribution, reclaimed water transmission, and wastewater collection and transmission systems. HCE utilized these calibrated models to analyze several hydraulic modeling scenarios.

The hydraulic models were drawn in the ESRI Geographic Information System (GIS) environment as fully connected geometric networks and then imported

and developed using Innovyze Infowater hydraulic modeling software. Pipes were assigned diameters and roughness coefficients based on size and material from available SUA record drawings and GIS data, node elevations were assigned based on United States Geologic Survey (USGS) lidar topography, and model boundary conditions were assigned based on information

from SUA staff. The models were calibrated to most closely match Supervisory Control and Data Acquisition (SCADA) records during peak flow conditions or various field tests if applicable (i.e. hydrant flow tests and lift station drawdown tests).

These hydraulic models were used to develop “what if” scenarios to provide SUA with a data driven approach to proactively address existing and future impacts to their water distribution, reclaimed transmission, and wastewater transmission systems. Examples of hydraulic modeling scenarios included but are not limited to: addressing the addition of a new 1,000,000 square-foot Florida Power and Light headquarters to the potable water distribution system, providing justification for SUA’s potable water distribution system to qualify for the Insurance Services Office’s (ISOs) Class 1 through 8 classification, providing recommendations for replacing old and difficult to access asbestos cement wastewater pipe with new ductile iron pipe in a location more suitable for SUA operation and maintenance personnel, and determining the ideal location and size of an in-line reclaimed water booster pump station.

CONSTRUCTION ENGINEERING AND INSPECTION SERVICES



HCE will ensure that utility improvement projects are completed on time and within budget

During construction, HCE will administer the construction contract to ensure compliance with the design intent, the permits, and the contract documents. HCE will review all submittals, including the project schedule, schedule of values, shop drawings, maintenance-of-traffic plans, horizontal directional drill pilot bore logs, trench safety, and other submittals defined in the documents. HCE will make periodic site visits or have full time representation if requested by the City, to ensure that construction is conducted in conformance with the contract documents and to monitor the status of construction. HCE will respond to all requests for information from the contractor and will help resolve any conflicts or issues during construction. We will hold periodic progress meetings with the City and the contractor and will review monthly pay requests and schedule updates. We will make recommendation of payment of the amount earned to date less retainage. Any changes to the contract documents that affect contract time or price will be made via change order negotiated with the contractor and approved by the City.

If full time representation is not requested by the City, HCE will provide construction inspection services to the extent necessary to certify proper completion of the project to FDEP and any other permitting or granting agencies. Site visits will be made at key stages of construction by HCE staff to observe construction activities and confirm compliance with the contract documents. HCE will require and review testing during construction, including compaction density and pressure tests. We will review construction as-built drawings and mark-ups prepared by the contractor to ensure that they are up to date and accurately depict any changes made in the field.

After construction is substantially complete, HCE will conduct a comprehensive inspection and punch list of remaining work to be completed. HCE will perform follow-up inspections to ensure that all punch list items are completed to the satisfaction of the City and property owners and will coordinate the completion of all project close-out documents. HCE will certify completion of construction and submittal of signed-and-sealed record drawings to FDEP.

During the construction and start-up phase, HCE will communicate regularly with all stakeholders, including the City, contractors, regulatory and grant/loan agencies, and property owners. We will attend meetings as required to ensure that all affected parties are aware of project status and their concerns are addressed. One year after construction is completed; HCE will conduct a warranty inspection and will coordinate the resolution of any warranty issues with the contractor and manufacturers of equipment.

GRANT & LOAN FUNDING SUPPORT

HCE is currently under contract to provide grant consulting services to the City of Port St. Lucie, City of West Palm Beach, City of Lake Worth Beach, City of Delray Beach, City of Stuart, Riviera Beach, Okeechobee Utility Authority, and the Village of Golf. ***HCE is currently assisting the City of Port St. Lucie with a Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HGMP) grant for the replacement of approximately 1,000 low-pressure grinder electrical panels with generator receptacles.*** Our staff has extensive grant writing and administration experience and has **helped obtain and manage over 145 individual grants totaling over \$82 million in funding for local utilities, municipalities, and non-profit agencies.** HCE staff also has extensive experience with the State Revolving Fund (SRF) loan program and has recently assisted the City of Stuart obtain a \$5,900,000 low-interest SRF loan to fund critical water distribution system improvements in the City of Stuart and is currently assisting the City of Pompano Beach and Okeechobee Utility Authority obtain SRF funding for both water distribution improvements and stormwater improvement projects. As part of the project development process, HCE can provide the following funding development support if requested by Port St. Lucie:

- Research and review current and proposed grant opportunities utilizing online grant databases, and compare opportunities to the City's proposed infrastructure improvements program;
- Provide analysis identifying all grant requirements and restrictions including matching provisions, reporting requirements, and impact on existing grants or potential grant opportunities;
- Prepare and recommend application opportunities to the City for their approval prior to application development and coordinate, prepare and submit grant applications for review by the City prior to submittal to granting agencies;
- Following notice of award, coordinate and develop project scopes of work for grant contract development and execution by the City;
- Coordinate, prepare and submit as requested, all required grant compliance and

- project status reports;
- Coordinate, prepare and submit required documentation for invoicing of grants, including any required engineering certifications;
- Provide technical assistance to the City on the administration of new grants;
- Coordinate and serve as the City liaison with Federal, State, District, Local Government, and private foundation funding agencies;
- Conduct public information meetings, surveys and environmental assessments as needed by granting agencies;
- Develop legal advertisements for grant opportunities as required by granting agencies;
- Perform grant compliance oversight and grant close-out documentation;
- Assist with audit reports or annual inspections as necessary.

HCE has the staff expertise, tenacity, and willingness to tackle complex grant applications. We are eager to assist you fund your critical infrastructure projects.

MISCELLANEOUS

HCE is a fully integrated design-build firm, able to provide turnkey solutions to infrastructure challenges. The water/wastewater sector has unique features that are central to the consideration of best practices in the procurement, contracting and execution of any design-build project, and HCE is familiar in these areas. We are both licensed engineers and contractors experienced in traditional fixed price design-build as well as progressive design-build. Small projects can be well-suited for the design-build project delivery method, however HCE is also capable of larger design-build projects with our team of specialty subcontractors. Our understanding of construction methods, permitting, scheduling, and budgeting allows us to design projects, while reducing cost and schedules.



*HCE is a proud member of
the Design-Build Institute of
America*

HCE also offers a variety of consulting services related to utility sustainability. Renewing and replacing infrastructure is an ongoing task nationwide. Asset management can help the City of Port St. Lucie maximize the value of its capital as well as its operations and maintenance dollars. HCE can assist the City with obtaining critical information on capital assets and timing of investments. Some key elements we can assist the City with are the following:

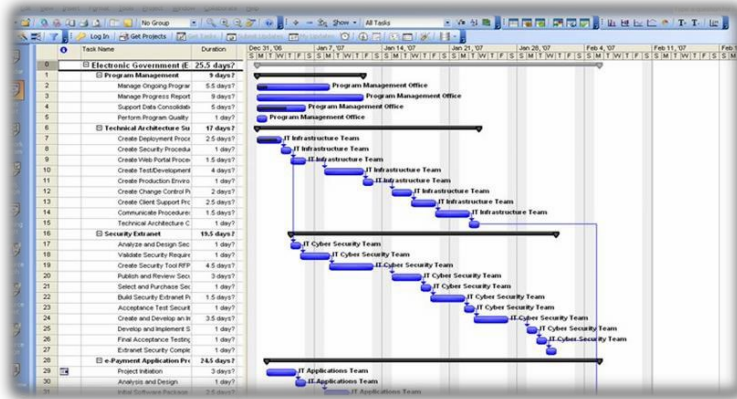
- **Field Collection of Data:** HCE engineers understand that data collection is a daunting task for most utilities. Our staff have the training and experience to help collect the data necessary to implement or improve your utility's asset management plan.
- **Plan Development:** HCE can help your utility develop Key Performance Indicators,

Capital Improvement Plans, and Asset Management plans in order to improve utility sustainability and set objectives for the future.

- **Workshops:** HCE believes that hosting workshops is a key part of plan development. We will work with you to hold a series of workshops including staff from various parts of your utility. By working as a team to define priorities, goals, and performance criteria, we can create a comprehensive plan that can be used for years to come.
- **Tool Development:** HCE has previously created tools in Microsoft Access and Microsoft Excel to help utilities capture and manage asset data quickly and easily. If your utility has a need for these types of tools, we would be happy to develop one that meets your specific needs. HCE is currently working on an innovative method to tie cost estimating to our lift station prioritization model to streamline the preparation of customized estimates for capital improvement program forecasting, budgeting, and planning.

ABILITY TO MEET SCHEDULE AND BUDGET

HCE has the willingness and ability to meet the time and budget requirements of all engineering assignments entrusted to us by the City of Port St. Lucie. Our firm was founded on the philosophy that our Client’s needs come first and we are dedicated to doing whatever it takes to meet the schedule and budget requirements on all projects. Our size, location and efficient structure allow us to provide very cost-effective engineering service, without requests for additional compensation for routine changes in project design and scope of work.



HCE uses several tools to ensure that we can commit the adequate resources to successfully complete our projects on time

Our staff has extensive prior successful experience providing timely and cost-effective engineering service to all our utility Clients and we have the staff availability and expertise to meet the time and budget requirements of all tasks for the City. Our lack of time-consuming internal and marketing activities allows us to focus on our Client’s needs. We do not answer to an out-of-town corporate bureaucracy and do not request additional compensation for minor changes in scope of work and ensure all our projects are successfully completed to our client’s satisfaction. Since we are committed to a long-term professional relationship with the City, we will work hard to ensure that all tasks are completed to the full satisfaction of the City.

We understand the concept of designing a project with the Client’s budget in mind. We listen to our Clients to understand their needs and budget constraints and do not have a “one size fits all”

approach to design. We will monitor and update accordingly construction cost estimates and communicate effectively with City staff to ensure that construction projects are completed within budget. Once a project is under construction, we will endeavor to work closely with contractors and the City to develop a win-win approach, and help them meet their schedule, while controlling costs, to the benefit of the City.

Communication and Schedule Monitoring

In order to monitor project status and schedule, HCE suggests holding bi-weekly or monthly project meetings during construction. Progress reports prepared by the contractor will be evaluated at each meeting including detailed information on the construction status, permit status, project schedule, potential contractor change orders, and other pertinent aspects of the work. HCE will prepare and distribute minutes of these meeting to memorialize any decisions made and direction given. This frequent communication ensures that the City is fully aware of the status of the work and that the schedule and budget are being monitored and adhered to. HCE will monitor construction progress by comparing progress of construction activities on a weekly basis to the contractor's original schedule. Should the project schedule slip, HCE will ensure that the issue is quickly addressed and rectified by requesting the Contractor to add crews and/or work extended hours. Closely monitoring the contractor's progress with their original schedule on a weekly basis will guarantee that the project will stay on schedule.

HCE is committed to providing the City with the highest quality engineering services possible. We believe we have proven our commitment and dedication on past and current projects the City. Our approach to satisfying our clients is to perform our work to the highest quality, on time and without any change orders or amendments for minor changes in the scope.

Cost-Effective Design Approach

HCE understands the importance of providing the City with a cost-effective design for all your projects. We are committed to ensuring that each aspect of the project is thoroughly evaluated, and the design recommendations provide the most efficient and reliable system possible with minimal impacts to the residents and neighborhoods during construction.



HCE's project approach, location, size, and familiarity with local conditions and permitting authorities will result in timely and a cost-effective project delivery

During design HCE will conduct internal constructability reviews and value engineering analysis to ensure minimal construction change orders and that the most cost-effective design approach is being implemented. Where necessary, HCE will consult with experienced contractors to ensure that the design approach is reasonable and constructable.



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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.

Holtz Consulting Engineers, Inc.

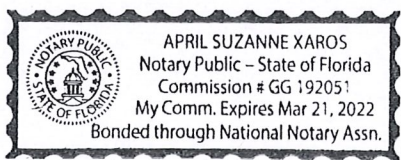
Name of Firm
Andrea Holtz, PE

President or Designee (Printed)
[Signature]

President or Designee (Signed)

The foregoing instrument was acknowledged before me by Andrea Holtz who is personally known to me. WITNESS my hand and official seal in the _____, _____ last aforesaid this 13 day of August, 2021.

(SEAL)



Signature
[Signature]

Notary Name (typed or printed)
April Suzanne Xaros

Notary Name (signed)



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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 1652660

Date of Authorization 3/9/21

Name of Contractor Holtz Consulting Engineers, Inc.

Name of Project Continuing Engineering Services for Utility Projects

Solicitation Number (If Applicable) eRFP #20210093

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

Executed on August, 13, 2021 in Jupiter (city), FL (state).



Signature of Authorized Officer

Andrea Holtz, PE, President

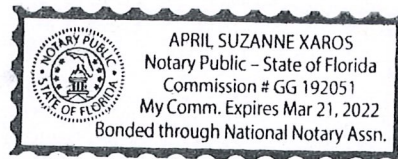
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 13 DAY OF August, 2021.

NOTARY PUBLIC April Xaros

My Commission Expires: 3-21-22



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

Holtz Consulting Engineers, Inc. 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.


Bidder's Signature

8/13/21

Date:



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: Holtz Consulting Engineers, Inc.	
Current Local Address: 607 SW St. Lucie Crescent, Suite 103, Stuart, FL 34994	Phone: (772) 919-4905
Length of time at this address: 8 years	Fax: (772) 919-4909
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. N/A Length of time at this address:	
Home Office Address:	Phone: (561) 575-2005
Length of time at this address: 5 years	Fax: (561) 575-2009

(Signed) [Signature]
(Title) Andrea Holtz, PE, President

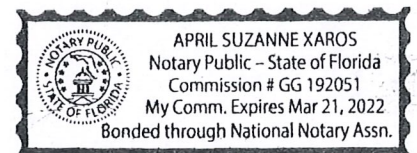
STATE OF FLORIDA }
COUNTY OF ST. LUCIE} SS:

The foregoing instrument was acknowledged before me this (Date) 8-13-21

by: Andrea Holtz who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

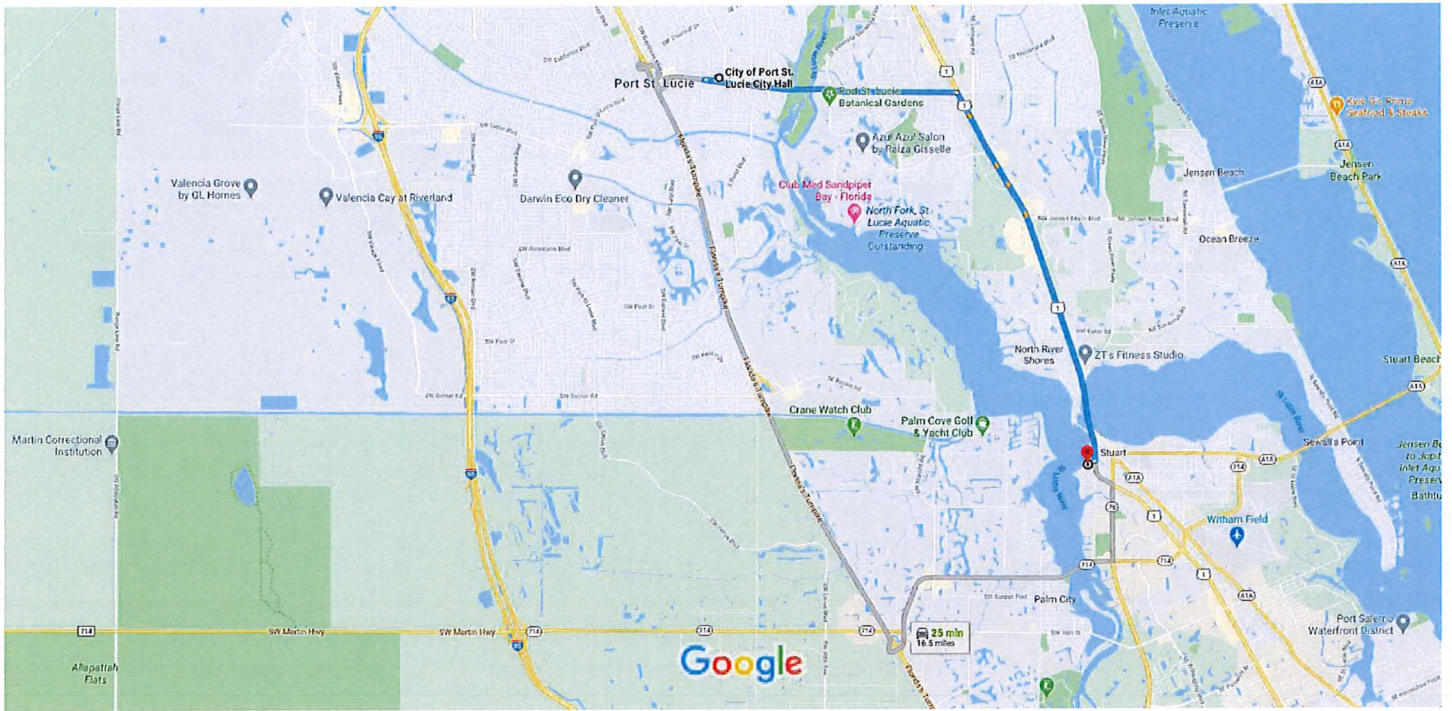
April Xaros
Notary (print & sign name) April Xaros

Commission No. GG192051



City of Port St. Lucie City Hall to 607 SW St Lucie Crescent, Stuart, FL

Drive 9.6 miles, 19 min



Map data ©2021 1 mi



via SW Port St Lucie Blvd and US-1 S 19 min
 Fastest route, the usual traffic 9.6 miles



via Florida's Turnpike 25 min
 16.5 miles

Explore 607 SW St Lucie Crescent



Restaurants



Hotels



Gas stations



Parking Lots



More

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: Andrea Holtz, PE _____

Signed:  _____

Company and Job Title: Holtz Consulting Engineers, Inc., President _____

Date: 8/13/21 _____



"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 Holtz Consulting Engineers, Inc.

Signature 

Printed Name and Title Andrea Holtz, PE, President

Date 8/13/21

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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NON-COLLUSION AFFIDAVIT
Solicitation # 20210093
Continuing Engineering Services for Utility Projects

State of Florida

County of Martin }

Andrea Holtz, PE, being first duly sworn, disposes and says that:

(Name/s)

1. They are President of Holtz Consulting Engineers, Inc. the Proposer that

(Title)

(Name of Company)

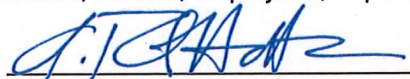
has submitted the attached PROPOSAL;

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) 

(Title) Andrea Holtz, PE, President



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

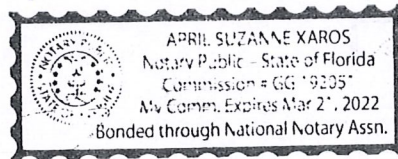
The foregoing instrument was acknowledged before me this (Date) 8-13-21

by: Andrea Holtz who is personally known to me or who has produced
_____ as identification and who did (did not) take an oath.

Commission No. GG 192051

Notary Print: April Xaros

Notary Signature: April Xaros





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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: Holtz Consulting Engineers, Inc.

PHYSICAL ADDRESS: 607 SW St. Lucie Crescent, Suite 103, Stuart, FL 34994

MAILING ADDRESS: 607 SW St. Lucie Crescent, Suite 103, Stuart, FL 34994

TELEPHONE NUMBER: (772) 919-4905

FAX NO. (772) 919-4909

CONTACT PERSON Andrea Holtz, PE, President

E-MAIL : Andrea.Holtz@holtzconsulting.com

Is the firm incorporated? ~~Yes~~→No If yes, in what state? Provide a list of officers for this entity.

Florida. Officers- Andrea Holtz, President, David Holtz- Vice President, David Holtz - Treasurer, Andrea Holtz- Secretary

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.

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.

CERTIFICATION:

This RFP is submitted by: Name (print) Andrea Holtz, 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 RFP:

J. T. Holtz Signature President 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:

Christine Miranda

Print name

Christine Miranda

David Holtz

Print name

David Holtz

If Individual:

Signature

Print Name

If Partnership:

Print Name of Firm

By: _____
(General Partner)

If Corporation:

Holtz Consulting Engineers, Inc.

Print Name of Corporation

By: J. T. Holtz (President)

Attest: J. T. Holtz (Secretary)