



## Professional Utility Engineering Services Continuing Services Contracts for the City of North Port

RFP No. 2025-12 | April 4, 2025



# Professional Utility Engineering Services Continuing Services Contracts for the City of North Port

RFP No. 2025-12 | April 4, 2025



## **Hazen and Sawyer**

2256 First Street, Suite 131  
Fort Myers, FL 33901  
[www.hazenandsawyer.com](http://www.hazenandsawyer.com)

## **Primary Contact**

Glenn "Tad" Rogers III, PE, ENV SP, CCCA  
Office: (239) 788-9401  
Fax: None  
Cell: (804) 605-8525  
[grogers@hazenandsawyer.com](mailto:grogers@hazenandsawyer.com)



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Tab 1

# Transmittal Letter



April 4, 2025

City of North Port  
Donald “Keith” Raney, CPPB, Senior Contract Administrator  
Finance Department-Purchasing Division  
4970 City Hall Boulevard, Suite 337  
North Port, FL 34286

**Subject: RFP No. 2025-12 — Professional Utility Engineering Services, Continuing Services Contracts**

Dear Selection Committee Members:

Hazen and Sawyer (Hazen) is pleased to present our qualifications to provide utility engineering services on a continuing basis for the City of North Port (City). The Hazen team has relevant experience and technical expertise, as well as a proven record of successfully completing work under similar utilities continuing contracts in Southwest Florida and throughout the state. We are excited for the opportunity to serve the City as one of its trusted engineers under this contract and with an established office in nearby Fort Myers, will be readily available and responsive to your needs.

North Port’s connection with water extends from its natural resources, such as Warm Mineral Springs and Myakkahatchee Creek Environmental Park, to the below-grade infrastructure that protects the health of its residents and the environment. As both a destination and a place for business, the City will leverage capacity under this contract to design and construct capital improvement projects to keep pace with growth and upgrade aging infrastructure. Hazen understands that the City requires a team that is invested, and has assembled an experienced team of local engineers and support staff, augmented by key experts, to provide a broad spectrum of expertise in any area of water, wastewater, and reclaimed water engineering.

Assignments under this contract may include water, wastewater, and/or reclaimed water treatment and storage systems, conveyance systems and planning assistance. Due to Hazen’s sole focus on water engineering and the variety of water-related projects performed by our proposed team, we are a “One-Stop Shop” for these types of contracts and can provide engineering services for any project that the City will require. Our team offers the City the following key differentiators:



## Technical Expertise

Hazen’s singular focus is on all things water®: water, wastewater, reclaimed water, and stormwater. Our key team members work and live in Southwest/West Florida and are focused on solving local water resource issues. We have the local expertise to cost-effectively complete design of critical infrastructure projects, with regional and national support to assist in solving any issues and challenges that may lie ahead for the City.

Our key team members have worked together on similar local water, wastewater, and reuse water projects over the past 20+ years—**maximizing our efficiency in delivering the highest-quality work products.**



### Collaborative Partnership

Our approach to this contract is underscored by our responsiveness and desire to collaborate with the City in both overall project management as well as the design of projects. We will serve as an extension of the City and leverage our experience and staff to meet the City's objectives. Collaboration will be facilitated from our Fort Myers office by our local **Project Manager, Glenn "Tad" Rogers III, PE, ENV SP, CCCA who will oversee all tasks issued under this contract**, ensuring a consistent approach and successful results for the City. Our commitment to responsiveness goes far beyond just a local office—our entire team is committed to meeting and exceeding the City's expectations for communication, collaboration, and project delivery.



### Proven Record

Hazen has extensive experience and a proven record on continuing services contracts delivering high-quality deliverables on time and within budget. We understand what it takes to perform multiple assignments in parallel and the coordination required to keep a contract like this moving forward, as demonstrated on our over 60 successful continuing services contracts in Florida. **Our Project Manager has led 90+ distinct task orders across six continuing services contracts in the past 10 years for Hazen municipal clients.** He understands the nature of such contracts and where multiple assignments must be simultaneously advanced, without sacrificing quality. With each work assignment, he will be supported by an Assistant Project Manager or Project Engineer, selected based on the technical requirements of the assignment, and by a deep bench of expert technical resources who themselves are involved in similar work.



### Commitment to Quality

Hazen takes our commitment to quality to heart. Our corporate culture is rooted in our Quality Assurance Policy Manual, which defines consistent requirements across each and every project undertaken by the firm. **Mr. Rogers served as one of Hazen's Regional Quality Coordinators and has assisted in periodic updates to the Policy Manual, giving him intimate familiarity with the requirements and best practices that drive quality for our clients.** Our clients can best attest to our performance and quality of our work, and we encourage you to contact the client references included in this proposal.

We are confident that selection of Hazen as a member of your Professional Utility Engineering Services continuing contract will result in successful, professional, and timely project delivery for the City, and we look forward to working together for years to come. Please do not hesitate to contact us directly if you have any questions or would like to discuss our qualifications further.

Very truly yours,  
**Hazen and Sawyer**

Holly Kremers, PE, ENV SP\*  
Associate Vice President, Project Director  
hkremers@hazenandsawyer.com  
(813) 682-1226

Glenn "Tad" Rogers III, PE, ENV SP, CCCA\*  
Associate Vice President, Project Manager  
grogers@hazenandsawyer.com  
(239) 788-9401

\*Authorized to Bind the Firm. The signatories above are principals of the Project Team. The proposal was made without collusion with any other person or entity submitting a proposal pursuant to this RFP.

Tab 2

# Qualifications of the Consultant Firm



**Tab 2**

# Qualifications of the Consultant Firm

*The Hazen team has been providing consulting engineering services under Continuing Services Contracts in Florida for over **50 years**. Our team is structured to address all aspects of the work anticipated under this contract and will provide innovative and practical solutions for your toughest challenges.*

## Local Expertise

Hazen has provided complete in-house engineering services in Florida since 1968. Our Florida staff has been involved in the implementation of more than \$8 billion in water-related projects in Florida over the past 10 years alone. These Florida projects include planning, design, value engineering, facility optimization, permitting, construction management, and operational evaluations of water, wastewater, stormwater, and reclaimed systems.

Most of our team members are long-time Florida residents and offer extensive knowledge of Florida’s current and historic issues with water use permitting, water demand, water supply, and the natural environment. The firm is owned entirely by its employees, many of whom have been with the firm for over 20 years.

## History

Hazen’s roots go back over 100 years to the accomplishments of Allen Hazen, one of the pioneers of modern water engineering and co-developer of the Hazen-Williams formula for fluid flow in pipes in 1903. Hazen and Sawyer was established by Hazen’s son Richard and Alfred W. Sawyer in 1951. **Together they created a company culture focused on the profession—not just the business—of engineering.** Their legacy is a firm with a reputation for high-quality work and customer service.

### Hazen and Sawyer

2256 First Street, Suite 131,  
Fort Myers, FL 33901  
Phone: (239) 788-9401  
Fax: None  
www.hazenandsawyer.com

### Primary Contact

Glenn “Tad” Rogers III, PE,  
ENV SP, CCCA  
grogers@hazenandsawyer.com  
(804) 605-8525 (cell)

### Business Structure

Hazen is an employee-owned corporation and is registered as a legal entity in the State of Florida. Hazen is not a minority-owned business.

### Relative Size of Firm

Hazen has nearly 2,100 employees firmwide, with over 200 in Florida.

<b>100</b> PERCENT	of work devoted to <b>THE WATER ENVIRONMENT</b>	<b>MORE THAN 1</b> BILLION GPD	<b>OF PLANT UPGRADES</b> designed over the last 10 years in Florida	Has served as <b>GENERAL CONSULTANT</b>	<b>FOR 60+</b> CLIENTS in Florida
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We bring **the right experience.**



<b>\$8</b> BILLION	<b>IN FLORIDA PUBLIC WORKS INFRASTRUCTURE</b> over the past 10 years	<b>9</b> OFFICES	in Florida and more than <b>75 OFFICES</b> IN U.S. AND ABROAD	<b>NEARLY 2,100</b>	<b>STAFF FIRMWIDE,</b> with 200 staff in Florida
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1021-682

The following table presents Hazen qualifications for each category of professional engineering services outlined in the City of North Port RFP No. 2025-12, as well as how this provides value to the City.

City of North Port Needs	Hazen Approach	Value to the City
<b>CATEGORY 1: Water, Wastewater, &amp; Reclaimed Water Treatment and Storage Systems</b>		
<p>Assistance with study, permitting, design, construction/engineering/inspection (CEI), and operations and maintenance (O&amp;M) activities associated with water and wastewater treatment plants, facilities and process improvements including facility expansions and improvements. This category shall also include indirect and direct potable reuse.</p>	<p>Hazen has exceptional experience in all aspects of both treatment technologies and plant design, and will leverage the expertise of regional and national staff to supplement design production for the local team. Our regional lead for Drinking Water resides in our Tampa office along with our Wastewater/Reclaimed Water task leader.</p>	<p>Hazen’s ability to accommodate all aspects of treatment system design provides for efficient design and sole source accountability to the City for any treatment needs. Additionally, we have former Facility Operators on staff for both Water and Wastewater to assist with O&amp;M SOPs and operability QC reviews, providing additional perspective for operator-focused design.</p>
<b>CATEGORY 2: Water, Wastewater, &amp; Reclaimed Water Conveyance Systems</b>		
<p>Assistance with the study, permitting, design, CEI, and O&amp;M activities associated water/wastewater/reclaimed water distribution, collection and transmission systems as well as utility relocations within the City of North Port and Florida Department of Transportation (FDOT) rights of way.</p>	<p>Hazen’s Project Manager has a background in conveyance, with a focus on linear design and lift station rehabilitation, and will lead related task orders. The team also has extensive experience in all aspects of sewer evaluations and rehabilitation, as well as extensive experience with regulatory agencies in the state.</p>	<p>Local leadership for conveyance related projects, including construction phase services, will allow for efficient development, providing value to the City from a cost and schedule standpoint. The team can accommodate any type of conveyance related project in house.</p>
<b>CATEGORY 3: Water, Wastewater, &amp; Reclaimed Water Planning</b>		
<p>Assistance with the evaluation of the OWNER’s service area needs for growth planning. Work efforts may include evaluating growth and new service impacts to the utility, surface and ground water resource management, consumptive use permitting, system engineering reports, flow monitoring data analysis, master planning efforts and updates, Geographical Information System (GIS) analytics, as well as hydraulic modeling.</p>	<p>Planning phase activities form the foundation for project development. Our planning projects typically involve detailed workshops to drive the decision making process, with deliverables at the end of the project to document the path forward. Hazen has in-house expertise for hydraulic modeling, GIS analysis and has developed numerous master plans for both specific facilities as well as municipalities.</p>	<p>Hazen’s depth of experience with planning-level evaluations means we have numerous prior examples to share and discuss with the City to best define the desired scope for any specific project. Our approach to workshop-based decisions expedites schedule and reduces interim submittals requiring City review and comment.</p>

1021-682

# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Professional Utility Engineering Services Continuing Service Contracts, City of North Port, FL

2. PUBLIC NOTICE DATE

January 31, 2025

3. SOLICITATION OR PROJECT NUMBER

RFP 2025-12

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Glenn "Tad" Rogers III, PE, ENV SP, CCCA, Associate Vice President

5. NAME OF FIRM

Hazen and Sawyer

6. TELEPHONE NUMBER

(239) 788-9401

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

grogers@hazenandsawyer.com

### C. PROPOSED TEAM

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

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2256 First Street, Suite 131 Fort Myers, FL 33901	<b>Prime Consultant</b>
b.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1000 N. Ashley Drive, Suite 1000 Tampa, FL 33602	<b>Prime Consultant</b>
c.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7334 Delainey Court Sarasota, FL 34240	<b>Prime Consultant</b>
d.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4000 Hollywood Boulevard Suite 750N Hollywood, FL 33021	<b>Prime Consultant</b>
e.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	999 Ponce de Leon Blvd, Suite 1150 Coral Gables, FL 33134	<b>Prime Consultant</b>
f.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2420 S. Lakemont Avenue, Suite 325 Orlando, FL 32814	<b>Prime Consultant</b>
g.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input type="checkbox"/> CHECK IF BRANCH OFFICE	498 Seventh Avenue, 11th Floor New York, NY 10018	<b>Prime Consultant</b>
h.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input type="checkbox"/> CHECK IF BRANCH OFFICE	4011 West Chase Boulevard Suite 500 Raleigh, NC 27607	<b>Prime Consultant</b>
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1555 Roseneath Road Richmond, VA 23230	<b>Prime Consultant</b>
j.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Hazen and Sawyer</b> <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7870 East Kemper Road, Suite 300 Cincinnati, OH 45249	<b>Prime Consultant</b>

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

*(Attached in Tab 3)*

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 2256 First Street, Suite 131			5. OWNERSHIP	
2c. CITY Fort Myers	2d. STATE FL	2e. ZIP CODE 33901	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Glenn F. "Tad" Rogers III, PE, CCCA, ENV SP, Associate Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (239) 788-9401	6c. E-MAIL ADDRESS grogers@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203		C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176		D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335	2	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	1	E08	Engineering Economics	5
16	Construction Manager	99		E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133		P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	2	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45		P07	Plumbing and Piping Design	3
29	GIS Specialist	25		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77		T02	Testing & Inspection Services	5
58	Technician/Analyst	39		W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131		W02	Water Supply; Trmt and Distribution	10
<b>Total</b>		<b>2,096</b>	<b>5</b>			

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		
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE Andre Dieffenthaler, PE, Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 1000 N. Ashley Drive, Suite 1000			5. OWNERSHIP	
2c. CITY Tampa	2d. STATE FL	2e. ZIP CODE 33602	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Holly Kremers, PE, Associate Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (813) 630-4498	6c. E-MAIL ADDRESS hkremers@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203	3	C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	6	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41	3	D04	Design-Build	8
12	Civil Engineer	335	7	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	1	E08	Engineering Economics	5
16	Construction Manager	99		E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6	1	I03	Industrial Waste Treatment	5
21	Electrical Engineer	133	5	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	18	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45	2	P07	Plumbing and Piping Design	3
29	GIS Specialist	25	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35	1	S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76	1	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77	1	T02	Testing & Inspection Services	5
58	Technician/Analyst	39	1	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	7	W02	Water Supply; Trmt and Distribution	10
<b>Total</b>		<b>2,096</b>	<b>58</b>			

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 February 4, 2025
c. NAME AND TITLE Holly Kremers, PE, Associate Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 7334 Delainey Court			5. OWNERSHIP	
2c. CITY Sarasota	2d. STATE FL	2e. ZIP CODE 34240	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Holly Kremers, PE, Associate Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (941) 378-2862	6c. E-MAIL ADDRESS hkremers@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203		C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176		D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335		E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	1	E08	Engineering Economics	5
16	Construction Manager	99		E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133		P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	1	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45		P07	Plumbing and Piping Design	3
29	GIS Specialist	25		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77		T02	Testing & Inspection Services	5
58	Technician/Analyst	39		W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131		W02	Water Supply; Trmt and Distribution	10
Total		2,096	2			

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		
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE Holly Kremers, PE, Associate Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 4000 Hollywood Boulevard, Suite 750 North			5. OWNERSHIP	
2c. CITY Hollywood	2d. STATE FL	2e. ZIP CODE 33021	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Patricia Carney, PE, BCEE, DBIA, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (954) 987-0066	6c. E-MAIL ADDRESS pcarney@hazensawsywer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203	11	C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	5	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335	14	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	6	E08	Engineering Economics	5
16	Construction Manager	99	4	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6	1	I03	Industrial Waste Treatment	5
21	Electrical Engineer	133	2	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	20	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	25	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35	3	S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77	3	T02	Testing & Inspection Services	5
58	Technician/Analyst	39	1	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	5	W02	Water Supply; Trmt and Distribution	10
<b>Total</b>		<b>2,096</b>	<b>77</b>			

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
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE Patricia Carney, PE, BCEE, DBIA, Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 999 Ponce de Leon Boulevard, Suite 1150			5. OWNERSHIP	
2c. CITY Coral Gables	2d. STATE FL	2e. ZIP CODE 33143	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Jayson Page, PE, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (305) 443-4001	6c. E-MAIL ADDRESS jpage@hazendandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203	1	C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176		D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41	1	D04	Design-Build	8
12	Civil Engineer	335	10	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	1	E08	Engineering Economics	5
16	Construction Manager	99	1	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133	3	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	4	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	25		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76	1	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77	1	T02	Testing & Inspection Services	5
58	Technician/Analyst	39	2	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	1	W02	Water Supply; Trmt and Distribution	10
Total		2,096	27			

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		
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE Jayson Page, PE, Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 2420 S. Lakemont Avenue, Suite 325			5. OWNERSHIP	
2c. CITY Orlando	2d. STATE FL	2e. ZIP CODE 32814	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE Frederick Holmes, PE, Associate Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (407) 367-2626	6c. E-MAIL ADDRESS fholmes@hazendandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203	3	C15	Construction Management	10
06	Architect	24	1	C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	4	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335	4	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	2	E08	Engineering Economics	5
16	Construction Manager	99		E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133		P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	18	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45	1	P07	Plumbing and Piping Design	3
29	GIS Specialist	25		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76	1	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77		T02	Testing & Inspection Services	5
58	Technician/Analyst	39	1	W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	2	W02	Water Supply; Trmt and Distribution	10
Total		2,096	37			

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		
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE Frederick Holmes, PE, Associate Vice President	

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>Hazen and Sawyer (NYC Branch Office)</b>			3. YEAR ESTABLISHED <b>1951 (firm and NYC office)</b>	4. UNIQUE ENTITY IDENTIFIER <b>FFSSK2D6MD53</b>
2b. STREET <b>498 Seventh Avenue, 11<sup>th</sup> Floor</b>			5. OWNERSHIP	
2c. CITY <b>New York</b>	2d. STATE <b>NY</b>	2e. ZIP CODE <b>10018</b>	a. TYPE <b>Employee Owned</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Kathryn Fitzgibbons Hoek, PE, Assoc. DBIA / Associate Vice President</b>			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER <b>212.539.7000</b>	6c. E-MAIL ADDRESS <a href="mailto:khoek@hazendandsawyer.com">khoek@hazendandsawyer.com</a>		7. NAME OF FIRM (If block 2a is a branch office) <b>Hazen and Sawyer (Same)</b>	
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 (NYC)			
02	Administrative	203	33	C15	Construction Management	10
06	Architect	24	5	C18	Cost Estimating	3
08	CADD Technician	176	4	D02	Dams (Earth, Rock)	6
10	Chemical Engineer	41	4	D03	Desalination (Process & Facilities)	2
12	Civil Engineer	335	19	D04	Design-Build	8
15	Construction Inspector	86	12	E03	Electrical Studies & Design	2
16	Construction Manager	99	17	E07	Energy Conservation	4
18	Cost Engineer/Estimator	7	4	E08	Engineering Economics	5
20	Economist	6		E09	Environmental Impact Studies	6
21	Electrical Engineer	133	8	H04	HVAC	2
23	Environmental Engineer	537	51	I03	Industrial Waste Treatment	5
24	Environmental Scientist	45	10	P05	Planning (Comm., Reg., Area, State)	7
29	GIS Specialist	25		P06	Planning (Site, Install. and Project)	4
30	Geologist	9		P07	Plumbing and Piping Design	3
32	Hydraulic Engineer	35	1	S04	Sewage Collect, Trmt and Disposal	10
39	Landscape Architect	2	2	S07	Solid Wastes	1
41	Mechanical Engineer	76	10	S10	Surveying; Platting; Mapping	3
57	Structural Engineer	77	1	S11	Sustainable Design	6
58	Technician/Analyst	39	1	S13	Stormwater Handling & Facilities	9
62	Water Resources Engineer	131	8	T02	Testing & Inspection Services	5
<b>Total</b>		<b>2,096</b>	<b>190</b>	W02	Water Resources; Hydrology; Ground Water	9
				W03	Water Supply; Trmt and Distribution	10

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

a. Federal Work	6
b. Non-Federal Work	10
<b>c. Total Work</b>	<b>10</b>

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Less than \$100,000</li> <li>2. \$100,000 to less than \$250,000</li> <li>3. \$250,000 to less than \$500,000</li> <li>4. \$500,000 to less than \$1 million</li> <li>5. \$1 million to less than \$2 million</li> </ol> | <ol style="list-style-type: none"> <li>6. \$2 million to less than \$5 million</li> <li>7. \$5 million to less than \$10 million</li> <li>8. \$10 million to less than \$25 million</li> <li>9. \$25 million to less than \$50 million</li> <li>10. \$50 million or greater</li> </ol> |
|--|--|

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE



b. DATE

March 17, 2025

c. NAME AND TITLE

**Kathryn Fitzgibbons Hoek, PE, Assoc. DBIA / Associate Vice President**

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>Hazen and Sawyer (Raleigh Branch Office)</b>			3. YEAR ESTABLISHED <b>1951 (Firm) 1973 (Raleigh)</b>	4. UNIQUE ENTITY IDENTIFIER <b>FFSSK2D6MD53</b>
2b. STREET <b>4011 WestChase Boulevard, Suite 500</b>			5. OWNERSHIP	
2c. CITY <b>Raleigh</b>	2d. STATE <b>NC</b>	2e. ZIP CODE <b>27607</b>	a. TYPE <b>Employee Owned</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Patricia Drummey Stiegel, PE, Vice President</b>			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER <b>(919) 833-7152</b>	6c. E-MAIL ADDRESS <b>pdrummey@hazenandsawyer.com</b>		7. NAME OF FIRM (If block 2a is a branch office) <b>Hazen and Sawyer (Same)</b>	
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 (Raleigh)			
02	Administrative	203	60	C15	Construction Management	10
06	Architect	24	7	C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	48	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335	32	E03	Electrical Studies & Design	2
14	Computer Programmer	9	2	E07	Energy Conservation	4
15	Construction Inspector	86	5	E08	Engineering Economics	5
16	Construction Manager	99	14	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6	2	I03	Industrial Waste Treatment	5
21	Electrical Engineer	133	22	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	57	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45	6	P07	Plumbing and Piping Design	3
29	GIS Specialist	25	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9	1	S07	Solid Wastes	1
32	Hydraulic Engineer	35	5	S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76	10	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77	20	T02	Testing & Inspection Services	5
58	Technician/Analyst	39	10	W02	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	11	W03	Water Supply; Trmt and Distribution	10
<b>Total</b>		<b>2,096</b>	<b>313</b>			

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

a. Federal Work	6
b. Non-Federal Work	10
<b>c. Total Work</b>	<b>10</b>

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Less than \$100,000</li> <li>2. \$100,00 to less than \$250,000</li> <li>3. \$250,000 to less than \$500,000</li> <li>4. \$500,000 to less than \$1 million</li> <li>5. \$1 million to less than \$2 million</li> </ol> | <ol style="list-style-type: none"> <li>6. \$2 million to less than \$5 million</li> <li>7. \$5 million to less than \$10 million</li> <li>8. \$10 million to less than \$25 million</li> <li>9. \$25 million to less than \$50 million</li> <li>10. \$50 million or greater</li> </ol> |
|---|--|

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE  


c. NAME AND TITLE  
**Patricia Drummey Stiegel, PE, Vice President**

b. DATE  
February 5, 2025

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME <b>Hazen and Sawyer (Richmond Branch Office)</b>			3. YEAR ESTABLISHED <b>1951 (Firm) 2014 (Richmond)</b>	4. UNIQUE ENTITY IDENTIFIER <b>FFSSK2D6MD53</b>
2b. STREET <b>1555 Roseneath Road</b>			5. OWNERSHIP	
2c. CITY <b>Richmond</b>	2d. STATE <b>VA</b>	2e. ZIP CODE <b>23230</b>	a. TYPE <b>Employee Owned</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Evan Bowles, PE, ENV SP, Associate Vice President</b>			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER <b>(804) 266-1400</b>	6c. E-MAIL ADDRESS <b>ebowles@hazendandsawyer.com</b>		7. NAME OF FIRM (If block 2a is a branch office) <b>Hazen and Sawyer (Same)</b>	
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 (Richmond)			
02	Administrative	203	2	C15	Construction Management	10
06	Architect	24		C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	3	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41		D04	Design-Build	8
12	Civil Engineer	335	5	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86		E08	Engineering Economics	5
16	Construction Manager	99	4	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133		P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	9	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45		P07	Plumbing and Piping Design	3
29	GIS Specialist	25		S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76	2	S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77		T02	Testing & Inspection Services	5
58	Technician/Analyst	39		W02	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	7	W03	Water Supply; Trmt and Distribution	10
<b>Total</b>		<b>2,096</b>	<b>32</b>			

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

*(Insert revenue index number shown at right)*

a. Federal Work	6
b. Non-Federal Work	10
<b>c. Total Work</b>	<b>10</b>

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Less than \$100,000</li> <li>2. \$100,00 to less than \$250,000</li> <li>3. \$250,000 to less than \$500,000</li> <li>4. \$500,000 to less than \$1 million</li> <li>5. \$1 million to less than \$2 million</li> </ol> | <ol style="list-style-type: none"> <li>6. \$2 million to less than \$5 million</li> <li>7. \$5 million to less than \$10 million</li> <li>8. \$10 million to less than \$25 million</li> <li>9. \$25 million to less than \$50 million</li> <li>10. \$50 million or greater</li> </ol> |
|---|--|

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE  
February 5, 2025

c. NAME AND TITLE  
**Evan Bowles, PE, ENV SP, Associate Vice President**

# ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
RFP #2025-12

## 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 FFSSK2D6MD53
2b. STREET 7870 E. Kemper Rd., Suite 300			5. OWNERSHIP	
2c. CITY Cincinnati	2d. STATE OH	2e. ZIP CODE 45249	a. TYPE Corporation (Employee-Owned)	
6a. POINT OF CONTACT NAME AND TITLE W. James Gellner, Vice President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER (513) 469-5106	6c. E-MAIL ADDRESS jgellner@hazenandsawyer.com		7. NAME OF FIRM (If block 2a is a branch office) Hazen and Sawyer (Same)	
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	203	10	C15	Construction Management	10
06	Architect	24	1	C18	Cost Estimating	3
07	Biologist	1		D02	Dams (Earth, Rock)	6
08	CADD Technician	176	10	D03	Desalination (Process & Facilities)	2
10	Chemical Engineer	41	1	D04	Design-Build	8
12	Civil Engineer	335	1	E03	Electrical Studies & Design	2
14	Computer Programmer	9		E07	Energy Conservation	4
15	Construction Inspector	86	2	E08	Engineering Economics	5
16	Construction Manager	99	2	E09	Environmental Impact Studies	6
18	Cost Engineer/Estimator	7		H04	HVAC	2
20	Economist	6		I03	Industrial Waste Treatment	5
21	Electrical Engineer	133	3	P05	Planning (Comm., Reg., Area, State)	7
23	Environmental Engineer	537	5	P06	Planning (Site, Install. and Project)	4
24	Environmental Scientist	45		P07	Plumbing and Piping Design	3
29	GIS Specialist	25	1	S04	Sewage Collect, Trmt and Disposal	10
30	Geologist	9		S07	Solid Wastes	1
32	Hydraulic Engineer	35		S10	Surveying; Platting; Mapping	3
39	Landscape Architect	2		S11	Sustainable Design	6
41	Mechanical Engineer	76		S13	Stormwater Handling & Facilities	9
57	Structural Engineer	77	2	T02	Testing & Inspection Services	5
58	Technician/Analyst	39		W03	Water Resources; Hydrology; Ground Water	9
62	Water Resources Engineer	131	1	W02	Water Supply; Trmt and Distribution	10
Total		2,096	39			

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		
b. Non-Federal Work	10	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	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 February 4, 2025
c. NAME AND TITLE W. James Gellner, Vice President	

Tab 3

# Qualifications of the Project Team/Project Manager Experience



**Tab 3**

# Qualifications of the Project Team/ Project Manager Experience

*The Hazen team offers an unparalleled depth of technical expertise and experience across a broad range of disciplines, led by a local Project Manager with extensive experience with both continuing services contracts and Hazen technical resources, allowing us to address any tasks that might arise under this contract.*

## Local and Responsive Team

Through our long-standing presence in Florida, the Hazen team has established working relationships with the agencies, local governments, and key decision-makers that will be crucial to making each project successful. **Work under this contract will be led from our Fort Myers office with support primarily from our Sarasota and Tampa offices.** Our Florida team of over 200 employees across nine offices in the state ensures a strong local bench for the City, supported by a national network of nearly 2,100 employees. Our team has performed numerous projects of a similar nature, which allows us to efficiently manage multiple projects, address workload demands, and provide innovative, cost-effective, and sustainable engineering solutions tailored to the City’s needs.



Project Manager

**Glenn “Tad” Rogers III**  
PE, ENV SP, CCCA



**28 years of experience** in water, wastewater, and stormwater infrastructure improvements for municipal projects. Has led **90+ distinct task orders as Contract/Project Manager on multiple continuing services-type contracts** over the past 10 years, spanning all areas of service anticipated under this contract.

Project Director

**Holly Kremers**  
PE, ENV SP



**25 years of experience** in water and wastewater collection, transmission and treatment, stormwater, resiliency, and sea level rise mitigation. Served as Project Director on large multi-million-dollar projects and programs, earning a reputation for **delivering tight projects within budget and on schedule.**



**Miscellaneous Utility Engineering Services Contract Lee County, FL**

Project Manager for multiple engineering projects, including construction administration for the Fort Myers Beach WRF Belt Press Replacement and Fiesta Village WRF Upgrade.



**Professional Services Libraries City of Naples, FL**

Project Manager for multiple projects including consumptive use permitting and Lead and Copper Rule Revision Compliance Assistance.



**Miscellaneous Professional Engineering Services Hillsborough County, FL**

Project Director for several projects including the 2025 update of the County’s Risk and Resilience Assessment and Emergency Response Plan.



**General Consulting Services City of Plant City, FL**

Project Director for multiple assignments ranging from rehabilitating existing water and wastewater infrastructure to planning for the City’s future through master planning efforts.

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# Organizational Chart



★ Key Staff

Our proposed team members for this contract are listed on the above organizational chart. SF 330 resumes detailing relevant experience, education, and licensure for all of our team members are included at the end of this section. Brief bios are included on the next page for select key team members.

In the event specialty expertise is needed, we have established relationships with a broad range of consultants to provide services in areas including, but not limited, to survey and mapping and geotechnical services.

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**CATEGORY 1**

**Water, Wastewater, & Reclaimed Water Treatment and Storage Systems**



**PAUL BISCARDI, PhD, PE**  
Potable Water

**13 YEARS**

- Specializes in drinking water quality and treatment and serves as the Southeast Region’s Drinking Water Practice Leader.
- Experience includes design of water treatment facilities, planning-level process evaluation, pilot studies, operational assistance, and applied research.



**ANDREW COLEMAN, PE**  
Potable Water

**21 YEARS**

- Specializes in water and wastewater engineering, including work on treatment plants, and storage systems.
- Potable water experience includes hydraulic modeling, microfiltration, ultrafiltration, and reverse osmosis system design and troubleshooting.



**JACOB PORTER, PE, BCEE, DBIA**  
Wastewater/  
Reclaimed Water

**25 YEARS**

- Specializes in water and wastewater treatment, including evaluation, modeling, and design of treatment facilities, pump stations, and storage systems.
- Expertise includes planning, design, permitting, construction, and performance assessment.

**CATEGORY 2**

**Water, Wastewater, & Reclaimed Water Conveyance Systems**



**JOHN PACIFICI, PE**  
Pump Stations/  
Pipelines

**28 YEARS**

- Specializes in utility infrastructure planning, design, permitting, and construction with an emphasis on treatment plant and pump station design and rehabilitation.
- Areas of expertise include design of collection, conveyance, and treatment systems associated with water and wastewater facilities.



**JOHN SCHROEDER, PE, BCEE**  
Wastewater  
Collection/SSES

**32 YEARS**

- Expertise includes pipeline assessment, design, and rehabilitation, including planning, design, permitting, and construction management services, and condition assessments.
- Extensive experience in SSES and infiltration/inflow studies, CMOM programs, and asset management.



**GEORGE BROWN, PE**  
Pump Stations/  
Pipelines

**29 YEARS**

- Extensive experience in the study, design, permitting, and technical services during construction of pump stations, pipelines, and water supply projects.
- Designed 0.5 billion gallons per day of pumping facilities and 95,000 feet of pipelines.

**CATEGORY 3**

**Water, Wastewater, & Reclaimed Water Planning**



**ANDRE DIEFFENTHALER, PE, DBIA**  
Technical Advisor

**33 YEARS**

- Extensive experience in the planning, design, permitting, and construction management of water and wastewater treatment improvements, including master planning.
- Currently overseeing several general engineering services contracts in Southwest Florida.



**STEPHANIE ISHII, PhD, PE, ENV SP**  
Master Planning

**12 YEARS**

- Regional leader for Hazen’s Water Reuse Practice and Sustainability Services group.
- Focuses on effluent management, treatment selection, and integrated water management strategies that consider existing and potential future regulations, and overall environmental and economic impacts.



**CRYSTAL BROADBENT, PE**  
Hydraulic  
Modeling

**24 YEARS**

- Specializes in hydraulic design, water modeling, surge modeling, and sewer modeling.
- Experience includes model creation and calibration, diurnal demand pattern and geocoded demand calculations, demand projections, recommendations for improvements.

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# **Standard Form 330 – Section E Resumes**

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Glenn "Tad" Rogers III, PE, ENV SP, CCCA Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Project Manager/Client Manager</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>28</b>	b. WITH CURRENT FIRM <b>10</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Fort Myers, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil and Environmental Engineering BS, Industrial and Systems Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL, VA, DC – Civil Engineering Certified Construction Contract Administrator, Envision Sustainability Professional		

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Rogers specializes in water and wastewater infrastructure improvement projects, serving municipal and governmental clients in the design and construction administration of large and complex multi-disciplinary projects. He has led 90+ distinct task orders as Contract/Project Manager on multiple continuing services-type contracts over the past 10 years for clients such as City of Naples, Lee County, City of Fort Myers, and City of Cape Coral. He also currently serves as Operations Manager for the Hazen's Fort Myers office. **Professional Organizations:** American Water Works Association, Water Environment Federation, Florida Water Environment Association, American Public Works Association.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Miscellaneous Engineering Services Contract City of Naples, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Rogers serves as Contract/Project Manager and has led multiple projects on behalf of the City, including a permit modification and extension through the SFWMD to increase the withdrawal of groundwater from 3 to 5 mgd, as well as to receive a 10-year extension for the City's Consumptive Use Permit based on water conservation efforts. He is managing ongoing Lead, and Copper Rule Revision support and assisted the City in meeting the October 2024 EPA compliance deadline. <b>Cost:</b> \$301,000 (fee-to-date). <b>Specific Role:</b> Contract/Project Manager.		
b. (1) TITLE AND LOCATION (City and State) <b>General Engineering Continuing Services Contract Lee County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Rogers serves as Contract/Project Manager for work with the County including development of (completed) cost estimates on an expedited basis to support the County's request for FEMA reimbursement for damage to the existing Fort Myers Beach (FMB) WRF associated with Hurricane Ian, as well as updates to the Master Plan cost estimate for expansion of the facility to include upgrade elements and potential future resiliency improvements. Mr. Rogers also led construction phase services for the (completed) Fiesta Village WRF five-mile-long, 24-inch-diameter reuse transmission main and 14-mgd Deep Injection Well project as well as the (ongoing) FMB WRF Belt Press replacement project, which involves replacement of existing process equipment and complex yard piping improvements. <b>Cost:</b> \$1.15 million (estimated fee-to-date). <b>Specific Role:</b> Contract/Project Manager.		
c. (1) TITLE AND LOCATION (City and State) <b>S-8 Pump Station Rehabilitation, South Florida Water Management District, Broward County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Rogers serves as Project Manager for preliminary and detailed design for rehabilitation of an existing stormwater pump station to provide for 20 years of additional useful life. Complete multi-disciplinary overhaul of the facility, including site layout changes, replacement of major electrical and mechanical equipment and structural/architectural updates to comply with current standards and codes. The project was phased to streamline schedule for construction, with the exterior gantry crane scheduled for Phase 1 rehabilitation to provide a reliable means for the Contractor to perform Phase 2 rehabilitation. <b>Cost:</b> \$2.1 million. <b>Specific Role:</b> Project Manager.		
d. (1) TITLE AND LOCATION (City and State) <b>WRF Screening and Pumping Improvement Gasparilla Island Water Association (GIWA), Boca Grande, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Rogers served as Project Manager for developing a Preliminary Engineering Report (PER) for the Association's Water Reclamation Facility (WRF) to a MBR facility rated for 0.7 million gallons per day (mgd) annual average daily flow (AADF) with a design peaking factor of 3.0. The specifics of these improvements were developed closely with GIWA as part of the PER effort to define the basis of design, anticipated cost, schedule for construction and other considerations ahead of detailed design and include specific elements for the PER include screening and pumping improvements. <b>Cost:</b> \$94,600 (fee). <b>Specific Role:</b> Project Manager.		
e. (1) TITLE AND LOCATION (City and State) <b>Utilities Engineering Services Continuing Contract City of Fort Myers, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Rogers led aspects of the City's comprehensive multi-year Sanitary Sewer Evaluation Study (SSES), including inspections and evaluations of air release valves, review of codes related to the City's ability to enforce ordinances and development of the overall program. Additionally, he is managing ongoing water and sewer replacement work in the Campbell Acres neighborhood consisting of replacement of existing cast iron water main, lining of existing clay pipe sanitary sewers, manhole rehabilitation as well as point repairs to address issues with sanitary laterals. The project also involves analysis of the City's Lift Station 36 ahead of comprehensive civil, mechanical and electrical rehabilitation. <b>Cost:</b> \$668,000 (fee-to-date). <b>Specific Role:</b> Contract/Project Manager.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Holly Kremers, PE, ENV SP Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Project Director; Resilience/Sustainability</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>25</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering and Biological Sciences	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL, MI, NY – Civil/Water Resources
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Kremers is a client-focused professional civil engineer with experience in a broad range of water resources planning and design projects, including water and wastewater collection, transmission and treatment, stormwater, resilience, and sea-level rise mitigation. She has managed projects of varied size, complexity, and delivery methods, and has served as Project Director on multiple general consulting contracts in Florida. Ms. Kremers' primary focus is providing sustainable and resilient infrastructure solutions. Her sustainability experience includes Envision assessment and planning, sea level rise adaptation projects, coastal stormwater treatment best management practices (BMP) design, and flooding mitigation plans. **Professional Organizations:** American Water Works Association; Florida Water Environment Association; Tampa Bay Regional Resiliency Coalition.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Risk and Resilience Assessment (RRA) and Emergency Response Plan (ERP), Several Communities Throughout Florida</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. As part of America's Water Infrastructure Act of 2018, community water systems that serve a population greater than 3,300 are required to complete a Risk and Resilience Assessment. The assessments were conducted in compliance with EPA standards and included risks to the system from malevolent acts and natural hazards, resilience of physical assets, monitoring practices of the systems, handling of chemicals, and operation and maintenance of the system. Completion of the assessments were certified to EPA prior to the deadline for each size system to keep the utilities in compliance. <b>Cost:</b> \$42,000 <b>Specific Role:</b> Project Manager.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Lift Station 87 Wet Weather Transfer City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
(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. This project provided means for bi-directional flow transfer at the City's western water reclamation facilities as part of a consent order to prevent sanitary sewer overflows. The project includes nearly 12,000 linear feet of 16-inch force main and a pump station capable of pumping up to 3.5 mgd of wastewater in wet weather conditions. Ms. Kremers guided the team through sustainable design decisions and documentation for an Envision project certification. <b>Cost:</b> \$18 million <b>Specific Role:</b> Envision Sustainability Lead.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Regional Resiliency Action Plan Tampa Bay Regional Resiliency Coalition, Tampa Bay, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Ms. Kremers supported the Tampa Bay Regional Resiliency Coalition team with the development of the region's Resiliency Action Plan. The plan includes guidance to the 21-member municipalities in identifying climate hazards and predicting future impacts; recognizing community vulnerabilities; evaluating impacts on people in the community and focusing on well-being and equity; increasing resiliency of critical infrastructure; and enhancing the resilience of the regional economy. <b>Cost:</b> N/A <b>Specific Role:</b> Community Partner.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cosme Water Treatment Plant (WTP) Improvements City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2026 (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 d. Hazen is providing design and project management services for a progressive design-build improvements project at Cosme WTP. The project includes replacing aging high-service pumps and piping, improving the process and chemical feed, replacing the electrical and control system, and converting the controls building into an emergency operations center. Ms. Kremers is responsible for leading the process engineering team in supporting the design-builder and City through their largest progressive design-build project, including efforts to achieve Envision Gold sustainability certification. <b>Cost:</b> \$36 million (est.) <b>Specific Role:</b> Project Manager; Envision Liaison.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Southwest Water Reclamation Facility (SWWRF) Facility Plan City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Ms. Kremers serves as the Resilience and Sustainability Lead in support of the facility planning and implementation services for the SWWRF. The facility planning scope for the 20-mgd water reclamation facility includes asset and performance evaluation to develop capital project recommendations for a 10-year planning horizon related to potential future regulatory conditions, renewal and replacement needs, and resilience improvements. <b>Cost:</b> \$1.2 million (fee). <b>Specific Role:</b> Resilience and Sustainability Lead.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Paul Biscardi, PhD, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Potable Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>13</b>	b. WITH CURRENT FIRM <b>8</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Engineering; MS, Environmental Engineering BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Dr. Biscardi specializes in water treatment process evaluation, design, and optimization. He serves as Hazen’s Drinking Water Practice Leader for the South-east. His experience includes detailed design of water treatment facilities, planning-level process evaluation, pilot studies, operational assistance, and applied research. He has significant experience with membrane processes used for both water, reuse, and industrial applications including reverse osmosis, nanofiltration, ceramic membranes, and membrane filtration. Dr. Biscardi also has experience with the design, start-up, and operation of both membrane and ozone pilot studies. He has successfully conducted projects throughout the State of Florida. **Professional Organizations:** American Water Works Association; American Membrane Technology Association; Southeast Desalting Association.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>Advanced Water Treatment Demonstration Program Phase 1 &amp; 2 Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. The Hillsborough County Public Utilities Department is currently planning to construct a potable reuse demonstration facility. Long-term goals of this program are to provide a facility for education, research, testing and demonstration of advanced water treatment systems for producing potable water from reclaimed water. Dr. Biscardi assisted with Phase 1 of this project and is currently assisting with Phase 2. During Phase 1, Dr. Biscardi assisted with developing a conceptual-level process trains, design criteria, site-layouts, key monitoring parameters, and cost estimations. Dr. Biscardi also developed a process selection tool that leverages Hazard Analysis and Critical Control Point (HACCP) principles. The evaluation resulted in a recommendation of a UF-RO-AOP process for the demonstration facility. During Phase 2, Dr. Biscardi has been assisting with conceptual and detailed design, permitting and bidding assistance for the advanced water treatment facility. <b>Cost:</b> \$201,000 (fee). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Verna Water Treatment Plant City of Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. Hazen has been working with the City to identify and design treatment system improvements that would increase production, improve finished water quality, and provide a non-corrosive drinking water compliant with the Lead and Copper Rule and position the City for the future. This analysis led to the selection of a nanofiltration process which is currently undergoing pilot testing. Dr. Biscardi has been responsible for leading the drinking water process evaluation and is currently planning the pilot testing component of the project. This work has included detailed evaluation of nanofiltration membrane processes and aeration to provide treatment of sulfide, sulfate, hardness, strontium, and overall TDS. <b>Cost:</b> \$140,000 (fee). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Water Treatment Plant Refurbishment City of Dunedin, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. The City of Dunedin owns and operates a 9.5-mgd RO Water Treatment Plant originally constructed in 1992. To replace aging infrastructure, the City initiated a design-build project to include comprehensive pilot testing, design, and construction of new pre-treatment and RO treatment systems. Hazen was selected as a subconsultant to the general contractor on this design-build project. Dr. Biscardi is assisting with the bench-scale and pilot-scale testing component which includes evaluation of ozone, chlorine dioxide, potassium permanganate, sodium hypochlorite, polymeric membrane filters, ceramic membranes, RO membranes, dual-media filters, greensand filters, and pyrolusite filters. He will also assist with design of the selected full-scale pretreatment system. <b>Cost:</b> \$730,000 (fee). <b>Specific Role:</b> Project Engineer (Pilot Testing).	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Sunbridge Water Treatment Plant, Toho Water Authority Osceola County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. Mr. Biscardi is responsible for the design, permitting, and bidding for expansion of an existing 1-mgd ozone WTP to a 3.6-mgd (nanofiltration) NF facility. A pilot program evaluated multiple technologies and NF was selected for TOC removal because of the excellent removal of high levels of organics in the raw water. The expansion project adds a 3-mgd Upper Floridan supply well and well pump, a new NF system and building, ozone generation, side stream injection of ozone, an ozone dissipation/contact chamber, chemical storage and feed facilities, hydrofluorosilicic acid and corrosion inhibitor, a 1-MG ground storage tank, a high-service pumping station and an engine generator. The NF process will include a 3-stage hybrid membrane configuration operating at 90% recovery. <b>Cost:</b> \$113,000 (fee - wells); \$2.9 million (fee - design); \$46.6 million (est. construction). <b>Specific Role:</b> Lead Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Potable Reuse Pilot City of Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE e. Plant City, FL is conducting a pilot testing program to develop a 1.5-mgd indirect potable reuse system. Dr. Biscardi led the pilot test planning which included membrane filtration, reverse osmosis, UV-and AOP. This pilot study is a component of the McIntosh Park Integrated Water Management Plan which is collaborative project between Parks & Recreation and Utilities. This integrated effort aims to yield benefits beyond potable water supply, including restoration of hydrologically impacted wetlands, improved flooding conditions, and enhanced park recreational opportunities. Furthermore, these efforts enable optimization of previous public investments through the expansion of wetlands to increase the storage capacity and provide additional water quality improvements to downstream receiving systems. <b>Cost:</b> \$600,000 (fee). <b>Specific Role:</b> Lead Pilot Test Engineer.	<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 <b>Andrew Coleman, PE Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Potable Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>21</b>	b. WITH CURRENT FIRM <b>10</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Sarasota, FL**



16. EDUCATION (DEGREE AND SPECIALIZATION)  
BS, Environmental Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*  
PE / FL – Environmental Engineering

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

Mr. Coleman has over 20 years of experience in water and wastewater engineering, including work on pumping and conveyance systems. His extensive pump system design experience includes over 300 mgd in capacity of pump station design work, and the design of a wide range of pumping technologies for various types of installations. Potable water project experience includes hydraulic modeling and alternative development, pipeline and flow control design, pump station design ozone system design and construction, microfiltration, ultrafiltration, and RO system design and troubleshooting, along with ozone, BAF, and nanofiltration pilot study efforts, Electrodialysis Reversal (EDR) phasing assessment and preliminary design, chemical treatment and storage design, and associated permitting and construction for design projects. His experience includes all phases of a project, from conceptual design, to permitting, through construction and assistance with start-up and training. **Professional Organizations:** American Water Works Association (Oxygen for Ozone Generation Committee); Water Environment Federation.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Tampa Bay Water Lithia Hydrogen Sulfide Removal Capacity Testing/Evaluation, Pinellas County, FL</b>	2022	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 a. Mr. Coleman served as the Project Manager for the testing, evaluation, and permit re-rate efforts of the existing Lithia Hydrogen Sulfide Removal Facility. The driver for this project was providing a short-term water supply increase in Southern Hillsborough County due to extensive growth. The project included a desktop capacity analysis of the existing process components, raw and treated water quality data evaluation and process performance evaluation and identification of potential increased plant flows. The project also included a collaborative field testing plan with Tampa Bay Water staff and performance of several days of field testing to verify desktop performance calculations. The project was successful in identifying the facility's ability to treat an additional 5.0 mgd and Hazen coordinated with FDEP and obtained approval of a PWS permit modification for the increased flow. <b>Cost:</b> \$125,000 (fee). <b>Specific Role:</b> Project Manager		
<b>Tampa Bay Water Cypress Creek WTP Chemical System Improvements, Pinellas County, FL</b>	2024	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 b. Mr. Coleman served as the Project Manager for the design of improvements to the Sodium Hypochlorite, Sodium Hydroxide, and Ammonium Hydroxide chemical storage and feed systems at the Cypress Creek WTP. The project included basis of design development of the proposed improvements, as well as operational evaluation of an alternative ammonia chemical and a 50% sodium hydroxide solution, as well as treatment performance impacts due to injector locations. Improvements include new storage tanks, metering pumps, interior and yard piping, as well as structural, electrical and I&C improvements. Hazen worked closely with Tampa Bay Water staff to develop an approach for maintenance of operations to limit impact to treatment. <b>Cost:</b> \$830,000 (fee), \$6 million (construction) <b>Specific Role:</b> Project Manager		
<b>WTP Water Quality Improvements (Feasibility Evaluation) Sarasota, FL</b>	2022	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 c. Mr. Coleman served as the Project Manager for this initial phase in a multi-phase project to evaluate, pilot, design, and construct treatment improvements for the City's Verna water supply. The Evaluation will assess current and future regulatory requirements, determine future water treatment needs, assess the existing treatment processes, review potential alternative treatment technologies, and identify treatment configurations for upgrading the Verna supply treatment approach, while also addressing potential modifications to the disinfection and corrosion control approach for the overall WTP. <b>Cost:</b> \$275,000 (fee). <b>Specific Role:</b> Project Manager		
<b>Waste to Energy (WTE) Reverse Osmosis (RO) WTP Process 90 Pump Modifications, Pinellas County, FL</b>	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Mr. Coleman served as Process/Mechanical Engineer for the design of pump station upgrades for the finished water pumping systems at the Pinellas County WTE RO WTP. The County was seeking to use more of the treated water from the RO WTP as service water at the WTE Facility. Mr. Coleman led the effort in assessing the existing pumping systems at the RO WTP and the County's desired water use. Mr. Coleman led the hydraulic assessment to allow treated water to gravity flow from the finished water storage tank to the adjacent WTE Facility for cooling tower supply. Mr. Coleman led the design of the pump improvements and hydraulic improvements for flow control at the Process 90 and Process 100 pump systems. <b>Cost:</b> \$150,000 (fee); \$600,000 (construction) <b>Specific Role:</b> Process/Mechanical Engineer		
<b>RO WTP Verna Sand Filter BODR and Pilot Study, City of Sarasota, FL</b>	2018	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 e. Mr. Coleman served as Project Manager for the basis of design for a new pressure sand filter system at the RO WTP that will treat water from the Verna wellfield supply. Project included a pilot study of the sand filter technology to assess treatment capability and operational criteria. Basis of design included assessment of three options for number and size of filters, treatment capacity analysis, hydraulic assessment for existing upstream pumps and control valves, site layout of the new filters, backwash storage and conveyance to sanitary sewer, structural improvements, and electrical and instrumentation improvements. <b>Cost:</b> \$145,000 (fee). <b>Specific Role:</b> Project Manager.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jacob Porter, PE, BCEE, DBIA Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Wastewater/Reclaimed Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>25</b>	b. WITH CURRENT FIRM <b>19</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering and Sciences BS, Biosystems Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Mr. Porter has 25 years of experience in environmental engineering with an emphasis on wastewater facility design. His responsibilities on engineering and environmental projects have included all aspects from conception and planning to design, permitting, construction, and performance assessment. He serves as the Southeast Regional Lead of Hazen's Preliminary Treatment Practice Group. **Professional Organizations:** Water Environment Federation; American Academy of Environmental Engineers; Design-Build Institute of America.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>General Consulting Services City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Since 2010, Mr. Porter has served as Contract Manager and single point of contact for the City. Under this contract, services have been provided to the City for their water, wastewater, and stormwater utility groups. Assignments include water main replacement, stormwater improvements, biosolids processing assessment, chemical feed system improvements, and gravity thickener and sludge pump replacements. <b>Cost:</b> \$1.1 million (est. fee to date). <b>Specific Role:</b> Contract Manager/Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>NWWRF Influent Pump Station and Screening Replacement City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Porter was responsible for the design, permitting, and construction services for influent pumping additions and modifications to the headworks at the 20-mgd WRF including demolition of two existing influent pumping structures, new coarse screening and dry pit influent pump station, sequence of construction and MOPO, new fine screening structure with center flow band screens, odor control, power distribution and controls, permitting, public outreach program, and Envision Gold certification. <b>Cost:</b> \$3.7 million (fee); \$30 million (construction). <b>Specific Role:</b> Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>General Engineering Services Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen has been providing general engineering services to Sarasota County for over 15 years. A representative sampling of projects include: construction management and resident project representation for the installation of two new liquid ammonium sulfate storage tanks, containment area, day tank and feed system at the 12-mgd Carlton WTP; detailed field assessment and audit of the Sarasota County water and wastewater facilities, including T. Mabry Carlton EDR WTP, Jacaranda RO WTP, and University Parkway RO WTP, Well Field and Pump Station; and engineering services for assessment and repairs for the stormwater infrastructure in several subdivisions. <b>Cost:</b> \$1.5 million (fee); \$3.4 million (construction). <b>Specific Role:</b> Quality Control Engineer; Lead Engineer for Stormwater Assessment, South Gate Master Pump Station Preliminary Design, and other projects.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren AWTP Dewatering Facility Replacement Design, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) 2025
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Porter was responsible for the design, permitting, bidding, and construction services to replace eight belt filter presses with new centrifuges and associated components for the wastewater treatment plant that produces 31 DT/day of solids. The scope of work included three 500 gpm centrifuges, three progressive cavity feed pumps, new dewatering building with provisions for a future fourth centrifuge system, emulsion polymer blending system, new conveyors, three truck loading stations and weigh scales, electrical and instrumentation improvements, and camera system. <b>Cost:</b> \$25 million (construction). <b>Specific Role:</b> Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Potable Water, Wastewater, and Reclaimed Water Projects City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE For 12+ years, Hazen provided engineering and design services for various projects over the course of this continuing services contract, including: Northeast Water Reclamation Facility (NEWRF) Clarifier #5 Rehabilitation; Cosme Water Treatment Plant Sludge Lagoon Improvements; Lift Station 85 and Force Main Improvements; Northwest Water Reclamation Facility (NWWRF) Return Activated Sludge (RAS) Pump Replacement; Northeast Water Reclamation Facility (NEWRF) Reject Water Storage; and Wastewater Collection System Analysis. <b>Cost:</b> \$1.3 million (fee); \$7.1 million (construction). <b>Specific Role:</b> Project/Client 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 <b>John Pacifici, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Pump Stations/Pipelines</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>28</b>	b. WITH CURRENT FIRM <b>5</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) MBA, Business Administration BS, Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Environmental Engineering	



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Pacifici has 28 years of experience in utility infrastructure planning, design, permitting, and construction with an emphasis on treatment plant and pump station design and rehabilitation. His areas of expertise include the design of collection, conveyance, and treatment systems associated with water and wastewater facilities; piping and mechanical systems; contract document preparation; and project management.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Wastewater Collection System Program Management Consultant City of Clearwater, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 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 a. Mr. Pacifici serves as Project Manager for The City of Clearwater's Wastewater Collection System Program. The City has implemented a system-wide wastewater collection system program for the overall assessment, coordination, and replacement of critical system infrastructure. The City's wastewater collection system consists of 8,300 manholes, 370 miles of gravity sewer, 73 lift stations, and 38 miles of force main. The Hazen team serves as the City's Program Manager, operating as an extension of the City's own staff, providing engineering design as well as management and coordination of the City's four on-call contractors. Hazen also assists the City with evaluation and prioritization of rehabilitation activities identified in the City's Master Plan. <b>Cost:</b> \$110 million (construction); \$18 million (fee) <b>Specific Role:</b> Project Manager		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Main Assessment for Central County Solid Waste Disposal Complex, Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Mr. Pacifici served as Project Manager for the development of a feasibility study for a potential 12,200-foot potable water transmission line from the Peace River/Sarasota County interconnect to the Central County Solid Waste Disposal Complex (CCSWDC) located off of Knights Trail Road. The evaluation included a route assessment for the proposed main as well as hydraulic modeling for multiple demand scenarios, environmental and permitting evaluation, and construction cost estimate. <b>Cost:</b> \$47,000 (fee); <b>Specific Role:</b> Project Manager		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Miscellaneous Pump Station Improvements, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Mr. Pacifici served as Project Manager for the evaluation and rehabilitation of three lift stations in its wastewater collection system: Ivy Street, Mariner Street, and the Greco Softball Complex. The project included hydraulic analysis, technical design memorandum, cost estimating, contract drawings and specifications, permitting, bid assistance, and construction phase assistance. <b>Cost:</b> \$550,000 (construction); \$100,000 (fee) <b>Specific Role:</b> Project Manager		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Northwest Water Reclamation Facility Influent Pumping and Screening, City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 07/2025 (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 d. Mr. Pacifici served as Design Engineer for design and construction services to improve the influent pumping and screening systems for the facility. The Northwest Water Reclamation Facility (NWWRF) serves the northwest wastewater collection system service area of the City of St. Petersburg. The facility was originally constructed in 1955 and was expanded in 1983 to the current 20-mgd annual average daily flow (AADF) capacity. The plant is a Type I, complete mix activated sludge domestic WWTP. Hazen was retained to provide professional engineering design and construction services to improve the influent pumping and screening systems for the facility. The project is being constructed through a Construction Manager at Risk (CMAR) delivery method. <b>Cost:</b> \$3.69 million (fee); \$30 million (construction) <b>Specific Role:</b> Design Engineer		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren AWTP (HFC AWTP) Master Plan Improvements – Phase 1, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 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 e. Mr. Pacifici served as Design Leader for development of the secondary treatment components of planned improvements for the rehabilitation and upgrade of the 96-mgd HFC AWTP. Specific work for the secondary treatment systems included evaluation and development of upgrades to the aeration and mechanical equipment for the High-Purity Oxygen (HPO) reactors and the Diffused Air Reactors (DAR), and collaboration and coordination with subconsultant support teams for structural, electrical, instrumentation and controls, HVAC, and fire protection disciplines. Final deliverables for the HPO and DARs consisted of a design technical memorandum and a basis of design report, respectively, for use in the next design phase. <b>Cost:</b> \$5 million (fee), \$254 million (construction) <b>Specific Role:</b> Design Leader		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>John Schroeder, PE, BCEE</b> <b>Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>WW Collection/SSES</b>	14. YEARS EXPERIENCE a. TOTAL <b>32</b> b. WITH CURRENT FIRM <b>6</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Tampa, Florida</b>		
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil and Environmental Engineering, 1992		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / OH, FL, NY – Civil/Environmental Engineering
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Schroeder specializes in pipeline assessment, pipeline design, and pipeline rehabilitation. In addition, he has extensive experience in asset management, pump station design, SSES/infiltration/inflow (I/I) studies, construction inspection, and cost estimating. Mr. Schroeder is a trainer in the NASSCO pipeline, manhole, and lateral assessment and certification programs (PACP, MACP, LACP). For the City of Tampa, Mr. Schroeder served as Pipeline Design Engineering Manager for the Comprehensive Infrastructure for the City's Neighborhoods Design-Build project. <b>Professional Organizations:</b> North American Society of Trenchless Technologies; National Association of Sewer Service Companies; Water Environment Federation/FWEA.		

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	<b>Comprehensive Infrastructure for Tampa's Neighborhoods, City of Tampa, FL</b>	PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i> 2023
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 Mr. Schroeder served as Pipeline Design Engineering Manager for the Comprehensive Infrastructure for Tampa's Neighborhoods Design-Build project, which consisted of the assessment, design, and construction of over 60 miles water, wastewater, stormwater infrastructure improvements, performed simultaneously in four neighborhoods. This progressive design-build project was able to efficiently assess, design, rehabilitate, and replace these pipelines. The construction methodology maximized the use of trenchless technologies including cured-in-place pipe (CIPP) for mainline sewers and laterals and pipe bursting of water mains, which minimized disruption in these established four neighborhoods. As many of these neighborhoods had significant historical drainage problems, the basins were modeled and stormwater improvements were implemented including numerous new inlets, new storm sewers, and upsizing of storm sewers. <b>Cost:</b> \$60 million (progressive design-build) <b>Specific Role:</b> Assistant Project Manager; Pipeline Design Manager		
	<b>Capacity, Management, Operations &amp; Maintenance (CMOM) Program Development and Implementation, Sarasota County, FL</b>	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 Mr. Schroeder serves as a primary technical specialist and task manager for the Sarasota County CMOM program. This 5-year program involves evaluation and improvements of all aspects of the County's sewer collection system assets including gravity sewers, force mains, air release valves and lift stations. The County has over 12 different departments that are involved in managing, operating, and maintaining over 770 miles of gravity sewers, 730 lift stations, 530 miles of pressurized force mains and 1000 air release valves (force main). As an additional benefit to this program, Mr. Schroeder has led two phases of Air Release Valve inspection and replacements. Hazen is helping the County become a "Best in Class" utility through an exemplary CMOM program. This program excels in resource allocation, safeguarding public health and the environment while promoting financial stewardship and sustainable growth. <b>Cost:</b> \$60 million (progressive design-build) <b>Specific Role:</b> Technical Specialist and Task Manager		
	<b>Wastewater Collection System Program Consulting Services City of Clearwater, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing
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 For the City of Clearwater, Mr. Schroeder has been assisting with assessing, rehabilitation and replacement of their sanitary sewers, manholes and service laterals. He has been leading a team to develop work orders to perform collection system assessments and turn-key construction. The team oversees contractors to perform smoke testing, manhole inspections, sewer CCTV videos, and force main air release valve inspections. The constant flow of data from the field specialists is then review by a team of engineers led by Mr. Schroeder to develop turn-key construction work orders for sewer and lateral rehabilitation, manhole rehabilitation, sewer and lateral point repairs, sewer replacement, and ARV replacement. This complex program is enhanced with sophisticated GIS Tools and dashboards to track all work performed, money spent with the overarching goal of upgrading their wastewater collection system, prevent SSOs, and reduce inflow and infiltration. <b>Cost:</b> \$60 million (program) <b>Specific Role:</b> Technical Specialist		
	<b>Phase 2 Sewer Replacement and Rehabilitation City of Arcadia, FL</b>	PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i> 2023
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 Mr. Schroeder assisted with assessment, rehabilitation, and replacement of the City's sanitary sewers, force mains, water mains and pump stations. Mr. Schroeder served as one of the design engineers and technical advisors for this program. Phase a is complete; Phase b is getting ready to bid. <b>Cost:</b> Phase a: \$5 million (construction); Phase b: \$8 million (est. construction) <b>Specific Role:</b> Technical Advisor		
	<b>Sewer Design and Implementation Program City of Fort Lauderdale, FL</b>	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> 2023
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 Mr. Schroeder assisted with assessment, rehabilitation, and replacement of the City's sanitary sewers, manholes and service laterals. Mr. Schroeder has been leading a team to review CCTV videos and data to develop prioritized sewer improvements for structural longevity and infiltration reduction. <b>Cost:</b> \$27 million <b>Specific Role:</b> Technical Advisor and Sewer Rehabilitation Specialist		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>George Brown, PE Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Pump Stations/Pipelines</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>29</b>	b. WITH CURRENT FIRM <b>28</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Hollywood, Florida</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
 Mr. Brown has 29 years of experience in the design and construction of water and wastewater infrastructure along with managing multidisciplinary teams from master planning, conceptual planning, detailed design, and permitting through construction and startup. His experience includes numerous designs related to water supply, water treatment, pump stations pipelines, storage tanks, and reclaimed water. He has designed nearly 0.5 billion gallons per day of pumping facilities and 60,000 feet of pipelines. **Professional Organizations:** American Water Works Association, Florida Section Risk Management/Safety Committee.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Dixie Wellfield Improvements, City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> 2008
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE In 2002, the City decided to design and construct a new membrane nanofiltration WTP and associated wellfield. Mr. Brown served as Project Manager and Civil, Mechanical and Plumbing Engineer-of-Record to plan, design, permit, and provide services during the construction of the Dixie Wellfield. This project included: 1) eight new water supply wells; 2) equipping of the wells with submersible turbine pumps with a capacity of 1,750 gpm at 170 feet TDH each; 3) 11,000 feet of raw water piping that ranged from 16 to 30-inch diameter; 4) 1,000-kW diesel engine emergency generator; and 5) 3,300-square-foot generator building. Mr. Brown also served as Project Manager during design, permitting, construction, and testing of two Floridan Aquifer wells to collect water quality data to assess the efficacy of expanding the Dixie WTP using reverse osmosis technology. <b>Cost:</b> \$9.2 million. <b>Specific Role:</b> Project Manager and Engineer-of-Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Winson WTP High-Service and Transfer Pump Station Replacement City of North Miami, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> Ongoing.
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Brown served as Mechanical Engineer-of-Record for the design and permitting of upgrades to the Winson WTP. The facility included diesel engine-driven and electrical motor driven horizontal split case high service pumps along with vertical turbine backwash and transfer pumps that were at the end of their useful lives. Mr. Brown designed replacement of these pumps with four new vertical turbine can-style high-service pumps (3,500 gpm at 180 feet), two new vertical turbine can-style backwash pumps (9,700 gpm at 35 feet), and two new vertical turbine can-style transfer pumps (6,500 gpm at 40 feet). The design included demolition of the existing pumps and extensive modification of the old pump room to repurpose it for storage and feed of aqueous ammonia, fluoride, coagulant, and antioagulant. <b>Cost:</b> \$5.4 million (Overall est. fee). <b>Specific Role:</b> Mechanical Engineer-of-Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>High Service Pump Replacement, City of Hallandale Beach, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i> 2020
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Detailed design, permitting, bidding, and services during construction for replacement of the high-service pumps. Design included four new horizontal split-case pumps designed for 4,500 gpm at 175 feet total dynamic head. With three pumps operating, the pump station capacity will be able to meet the peak hour demand through the year 2045 and beyond. The pumps will be equipped with totally enclosed fan-cooled motors and operated with VFDs. <b>Cost:</b> \$4.68 million (construction). <b>Specific Role:</b> Project Manager the Engineer-of-Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Northlake Boulevard and US-1 Water and Sewer Replacement, Seacoast Utility Authority, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i> 2021
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Brown managed the conceptual design for 30,000 feet of water main and sewer force main replacement for the Seacoast Utility Authority. The project includes multiple phases. Mr. Brown served as the Project Director of the design and construction phases. Phase 1 included full replacement of all water main and force main within the 106-ft right-of-way along Northlake Boulevard, a 6-lane County roadway. The design includes approximately 12,000-ft of 6-inch to 12-inch DIP water main and 1,500-ft of 4-inch DIP force main installed by open cut along with approximately 500-ft of 6-inch HDPE installed by directional drill. <b>Cost:</b> \$1.6 million (fee). <b>Specific Role:</b> Project Director.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Intracoastal Waterway Directional Drill Design Criteria Package City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> 2017
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Brown managed the development of a design criteria package to retain a design-build firm to design and construct one 20-inch diameter water pipeline and one 16-inch diameter sewer force main crossing of the Intracoastal Waterway at the Las Olas Boulevard bridge for the City of Fort Lauderdale. The crossings were designed as horizontal directional drills utilizing HDPE DR 9 piping. Each horizontal directional drill was approximately 1,250 in length. This project was awarded the Design Build Institute of America (DBIA) Florida Region Design-Build Project of the Year for 2017 in the water/wastewater category. <b>Cost:</b> \$3.1 million (construction). <b>Specific Role:</b> 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 <b>Andre Dieffenthaller, PE, DBIA Vice President</b>	13. ROLE IN THIS CONTRACT <b>QA/QC/Technical Advisor; Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>33</b>	b. WITH CURRENT FIRM <b>12</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, FL**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental/Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Dieffenthaller has over 33 years of experience in the planning, design, permitting, and construction management of water and wastewater treatment plant and distribution system improvements, including master planning, water quality evaluations, regulatory assessments, condition assessments, advanced treatment, process optimization, bench/pilot testing, pressure and gravity piping, chemical feed systems, and pumping improvements. **Professional Organizations:** American Water Works Association; Water Environment Federation; Southeast Desalting Association.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b> (1) <b>General Consulting Services Sarasota County, FL</b>	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Dieffenthaller currently serves as Project Director for the General Consulting Services contract with Sarasota County. For more than 15 years, Hazen has performed numerous projects for Sarasota County under various engineering library and continuing services agreements. As part of these services, we have been providing funding and regulatory assistance for water treatment plants and water supply wells. Projects include preparation of Facilities Planning Document for SRF funding, detailed regulatory evaluation of Carlton, Jacaranda, and University RO WTPs; demonstration of four log virus removal; capacity evaluation; construction management for installation of new ammonium sulfate feed system; hydraulic modeling; and regulatory and planning assistance. <b>Cost:</b> Varies based on assignment <b>Specific Role:</b> Project Director	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>b.</b> (1) <b>Professional Engineering Services Pinellas County, FL</b>	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Since 2012, Hazen has been providing professional engineering services to Pinellas County. Selected assignments have included: Keller WTP Modifications: Provided construction management and inspection services for modifications to the Keller Water Treatment Plant; 54-inch Assessment: Planning, design, and construction for the evaluation and rehabilitation of a 54-inch line and valving at the South Cross AWTP. Project includes bypass pumping facility for entire North Treatment Train; Sanitary Sewer Evaluation: Flow monitoring and assessment of sanitary sewer system within one of the County's southern zones to identify required improvements. SB 64 Evaluation: Assessment of effluent management options (including ASR, DPR and RW) to reduce surface water discharge at the South Cross Bayou AWTP to comply with SB64. Mr. Dieffenthaller is responsible for effective communication with the client and among task team members, allocation of labor and budget resources, and adherence to scope and schedule. <b>Cost:</b> Varies based on assignment <b>Specific Role:</b> Overall Project Manager, Work Order Project Manager, or Project Director.	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>c.</b> (1) <b>Peace River Manasota Regional Water Supply Authority Water Quality Master Plan, City of Arcadia, FL</b>	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Identification of existing and potential future water quality limits that could impact the Authority's source water and treatment requirements, evaluation of various options for additional total organic carbon (TOC) removal, and evaluation of the existing and upcoming Lead and Copper Rule, regional corrosion control practices, and recommendation of next steps for regional corrosion control. <b>Cost:</b> \$174,000 <b>Specific Role:</b> Project Director	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>d.</b> (1) <b>General Water and Wastewater Engineering Services Hillsborough County, FL</b>	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Since 2013, Hazen has provided general water and wastewater engineering services to Hillsborough County as one of their on-call engineers. Projects have included the Wastewater Plant and Collection System Valve Replacement Project, which included replacement of large-diameter valves at the major WWTPs and within the collection system; Shell Point Road Water Main Replacement, which consists of replacement of over 8,000 feet of 8-inch water main including directional drilling and jack and bore; development of county-wide septic to sewer report; evaluation of the aeration system evaluation at Valrico AWTP; and Herschel Heights/City of Tampa Water Main Interconnects. Mr. Dieffenthaller is responsible for effective communication with the client and among task team members, allocation of labor and budget resources, and adherence to scope and schedule. <b>Cost:</b> Varies based on assignment <b>Specific Role:</b> Overall Project Manager, Work Order Project Manager, or Project Director	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>e.</b> (1) <b>General Consulting Services City of Tampa, FL</b>	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hazen has been working with the City of Tampa as part of Miscellaneous Services Contracts since 2002 for the City's water and wastewater systems. Relevant design/construction projects include: thousands of linear feet of new water pipeline; modifications to WTP ammonia feed and sodium hydroxide chemical storage and feed piping; improvements to WTP chlorine piping systems; replacement of WWTP gravity thickeners and related thickened sludge pumps; replacement of WWTP grit removal systems; and upgrades to the City's lift station telemetry system. Mr. Dieffenthaller is responsible for effective communication with the client and among task team members, allocation of labor and budget resources, and adherence to scope and schedule. <b>Cost:</b> \$1.1 million (est. fee to date) <b>Specific Role:</b> Project Director	<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 <b>Stephanie Ishii, PhD, PE, ENV SP Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Master Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12</b>	b. WITH CURRENT FIRM <b>9</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Engineering ME, Environmental Engineering BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Dr. Ishii specializes in systems-level evaluations, in which life-cycle assessment and other tools are leveraged to incorporate economic, environmental, and community criteria in the decision-making process. She focuses on design and management strategies that acknowledge the market potential of resource recovery, implications of regulatory shifts, and importance of community acceptance. Dr. Ishii has expertise in advanced water treatment, process monitoring, and resource recovery regulations. As an Envision Sustainability Professional, she helps utilities engage in triple bottom line alternatives analysis, collaborate across stakeholders, and document process and outcomes for the evidence-based Envision application. **Professional Organizations:** American Water Works Association; Water Environment Federation

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Northwest Water Reclamation Facility Influent Pump Station and Screening Replacement, St. Petersburg, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2025 (est.)
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen is performing design services for a new influent pump station, coarse screening facility, fine screening facility, odor control system, and electrical building in accordance with the planning, design, construction, and operational requirements to achieve a Gold-level Envision award. Dr. Ishii is leading the Envision effort, including the initial establishment of minimum performance levels, development of tracking tools, and coordination across parties to establish mutual understanding of resiliency and sustainability objectives, actions, and documentation needs. <b>Cost:</b> \$1.7 million (fee) <b>Specific Role:</b> Principal Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Effluent Strategy Development for South Cross Bayou Advanced Water Reclamation Facility, Pinellas County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Dr. Ishii is leading the evaluation of existing and alternative management strategies for effluent produced at the South Cross Bayou Advanced Water Reclamation Facility in response to Florida Senate Bill 64. Options include aquifer recharge, aquifer storage and recovery, deep well injection, direct potable reuse, increased non-potable reuse, and continued surface water discharge during wet weather events. Evaluation requires coordination with regional stakeholders (e.g., Tampa Bay Water, regulators, reclaimed water customers), technical assessments, and transparent, multi-criteria comparisons. Findings will inform the development of a long-term effluent management strategy that complies with regulatory requirements in a cost-effective and regionally beneficial manner. <b>Cost:</b> \$314,694 <b>Specific Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Innovative Wastewater Treatment Program JEA, Jacksonville, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Master Plan document will identify alternative collection system designs, advanced on-site wastewater treatment systems, decentralized treatment technologies, institutional frameworks, and other innovative approaches to upgrade approximately 65,000 septic systems in Duval County. Dr. Ishii focuses on the comparative evaluation of effluent management strategies, considering site-specific risks, costs, and benefits. She also leads the evaluation of innovative wastewater collection strategies, such as source separation in which individual waste streams are separately collected for efficient treatment and resource recovery. <b>Cost:</b> \$1.5 million (fee) <b>Specific Role:</b> Principal Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>One Water Demonstration Facility, City of Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Dr. Ishii advised treatment technology selection, monitoring approach, and reporting for pilot testing of microfiltration, reverse osmosis, and UV advanced oxidation for advanced treatment reclaimed water for potable reuse applications. Extensive engagement with regulators to ensure that testing protocols and collected data complied with regulations and guidelines in Florida and other states. Conducted presentations, workshops, and tours with various stakeholders to share the City's approach to integrated resource management and the evaluation of potable reuse. <b>Cost:</b> \$1.2 million (engineering fee; does not include the cost of pilot equipment) <b>Specific Role:</b> Regulatory Lead	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Peace River Regional Reservoir No. 3 (PR3) Siting and Feasibility Study, Arcadia, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The PR3 project will increase the Peace River Manasota Regional Water Supply Authority's pumping capacity on the Peace River consistent with their water use permit and provide a third off-stream raw water storage reservoir with a 6-billion-gallon capacity. Dr. Ishii led the development of a river water quality model to quantify the system reliability benefits of different intake siting locations considering the temporally and geographically variable tidal influence under current and potential future sea level conditions. Dr. Ishii incorporated water quality/reliability results into a multi-criteria decision analysis framework to provide site rankings based on yield, cost, accessibility, and other criteria. <b>Cost:</b> \$250,742.70 (fee) <b>Specific Role:</b> 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 <b>Crystal Broadbent Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Hydraulic Modeling</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>24</b>	b. WITH CURRENT FIRM <b>24</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Raleigh, North Carolina</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / NC – Civil
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Ms. Broadbent specializes in hydraulic design, water modeling, surge modeling, and sewer modeling. Her experience includes creating models, and calibrating models to SCADA data, fire flow test, and hydraulic grade line test; performing hydraulic analysis; populating models with design information; calculating diurnal demand patterns, geocoded demand, and determining demand projections; identifying problem areas, testing alternatives, and recommending solutions; prioritizing pipes to be reconditioned or replace; and converting hydraulic models to surge models. Ms. Broadbent is proficient in HAMMER, InfoWater Pro, KYPIPE SURGE, InfoSurge Pro, SewerGEMS, and WaterGEMS. **Professional Organizations:** AWWA; WEF, ASCE, HI Waterhammer Committee; Water For People, 2009 & 2010 Chair; NC AWWA-WEA 2012-2013 Secretary; NC AWWA –WEA 2014 Treasurer.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water and Wastewater Hydraulic Models Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Broadbent served as Project Engineer and was responsible for the development of hydraulic models for the City of Sarasota. The City's distribution system covers an area of approximately 15 square miles and served about 19,600 customers with an average day demand of 6.29 million gallons per day. The system includes one treatment plant, two ground storage tanks and booster pumps stations, and two elevated storage tanks. Tasks included developing the model from GIS data using Bentley software, distributing demands, calibrating to field fire flow test and hydraulic grade test, and developing diurnal pattern. The City continues to use the model in its development reviews and CIP improvements, and consults with Ms. Broadbent under on-call services. <b>Cost:</b> Potable Water Hydraulic Model: \$195,000 (fee); Wastewater Hydraulic Model: \$162,000 (fee). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Distribution System Master Plan Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Broadbent served as Project Engineer and oversaw the development of a hydraulic model. The City of Plant City water system supplies approximately 11,100 people covering 26 square miles and includes four water treatment plants, each supplied by well pumps. Tasks included updating GIS and then developing the model from GIS data using InfoWater software, distributing demands, calibrating to field fire flow test and hydraulic grade test, and developing diurnal pattern. C-Factor test was also performed. The calibrated model was used to assess current day conditions for fire flow, peak hour pressures and water age. Future demands were added to the model and future conditions were assessed. The model has been used to assist the City in CIP improvements and other evaluations under on-call services. <b>Cost:</b> \$350,000 (fee). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water and Wastewater Master Plan Update Sunrise, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Broadbent served as Project Engineer and assisted in the development of the potable hydraulic model and the analysis. The City's model is in Bentley WaterGems. Task included updating model to current GIS; developing updated diurnal pattern; updating water treatment plants, pumps curves and controls. The model was calibrated to field pressure measurements and used to analysis existing and future available fire flow and water age. Recommendations to improve conditions were described in the Capital Improvements Plan. The model has since been used to assist to assess the booster pump station surge mitigation and ISO support. <b>Cost:</b> \$768,554 (fee). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Conserv II Booster Pump Station Orange County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2022
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Broadbent performed a preliminary transient hydraulic surge analysis to determine preliminary operational limitations and system surge protection requirements at the booster pump station, along the transmission main, and/or at the City's and County's WRF effluent pump stations. The County currently uses the model to determine adequate flow rates during surge tank maintenance, and consults with Ms. Broadbent under on-call services. <b>Cost:</b> \$2 million (fee); \$18.5 million (est. construction). <b>Specific Role:</b> Hydraulic Modeling.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Loveland Grand Master Lift Station (GMLS) and East Port WRF Improvements, Johnson Engineering, Charlotte County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2021
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Broadbent served as Project Engineer, providing review and assessment of the existing SewerCAD hydraulic model and performing surge analysis for the new pump station. The project included design of a greenfield master lift station to combine flows and convey them to the EP WRF. <b>Cost:</b> \$511,000 (fee); \$21.7 million (total project cost) <b>Specific Role:</b> Project Engineer.	<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 <b>Erik Rosenfeldt, PhD, PE Vice President</b>	13. ROLE IN THIS CONTRACT <b>QA/QC / Technical Advisors; Potable Water Treatment</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>25</b>	b. WITH CURRENT FIRM <b>15</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Richmond, Virginia</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Civil and Environmental Engineering MS, Civil and Environmental Engineering BS, Chemical Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / MA, VA, NY, MI – Civil/Environmental Engineering	



18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
 Dr. Rosenfeldt serves as Hazen's Director of Drinking Water Process Technology and is a senior member of the firm's drinking water process and applied research groups. His work has focused on drinking water and reuse technology, evaluating, implementing, and optimizing conventional and advanced treatment processes for a variety of water quality concerns, including PFAS and other emerging contaminants such as EDCs, PPCPs, taste and odor and algal toxins, groundwater pollutants, as well as conventional and emerging DBPs. **Professional Organizations:** American Water Works Association; Organic Contaminants Research Committee; International Ozone Association; International Ultraviolet Association.

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	(1) <b>Miami-Dade Water and Sewer Department (WASD) PFAS Treatment Pilot, Miami-Dade County, FL</b>	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 In response to the finalization of the National Primary PFAS Standard, the Miami-Dade Water and Sewer Department (WASD) has embarked on an aggressive piloting and technology evaluation project designed to identify, evaluate, and select treatment technology capable of meeting the new federal standards. Dr. Rosenfeldt is serving as the PFAS treatment expert, developing pilot protocols, reviewing pilot results, and leading the conceptual designs for all viable treatment options at each of WASD's three water treatment facilities. <b>Status:</b> The Pilot is scheduled to be complete by April of 2026. <b>Cost:</b> \$2.3 million (est. fee) <b>Specific Role:</b> PFAS Expert.		
b.	(1) <b>Miami-Dade Water and Sewer Department (WASD) PFAS Management Plan, Miami-Dade County, FL</b>	2023	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 The Miami-Dade Water and Sewer Department (WASD) has been proactively performing water quality sampling at the wells serving the three regional systems since 2019. The results of this sampling have indicated the presence of PFAS in the wellfield supply water. Hazen assisted WASD in proactively developing an understanding of PFAS occurrence patterns, wellfield management, and treatment options available for reducing levels of PFAS in the finished drinking water. Dr. Rosenfeldt served as Technical Lead, developing evaluation of management and treatment options for controlling PFAS to meet 2016 and 2022 Health Advisory Levels. <b>Cost:</b> \$99,185 (fee). <b>Specific Role:</b> Technical Lead.		
c.	(1) <b>People's Water Service Company PFOA/PFOS Evaluation, Pensacola, FL</b>	2023	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 The People's Water Service Company enlisted Hazen for a study to develop a treatment concept and cost opinion of a PFAS treatment system capable of reducing PFAS concentrations at one of the client's well treatment facility. The effort focused on developing a single treatment facility for the well with the highest PFAS concentration. Tasks include an analysis of PFAS data, target-level determinations, short-term mitigation efforts, technology evaluations, and concept level cost and layout development for PFAS mitigation. <b>Cost:</b> \$40,000 (fee). <b>Specific Role:</b> Technical Advisor, Quality Assurance.		
d.	(1) <b>Cyanotoxins Response Expert Panel, City of West Palm Beach, FL</b>	2022	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 In response to the 2021 cylindrospermopsin event, the City convened an expert panel to review the event and look for short- and long-term solutions to improve resiliency of the treatment process for cylindrospermopsin. Hazen focused on the treatment optimization and improvements, utilizing data analysis of in-plant monitoring, process modeling using the AWWA Hazen-Adams CyanoTOX tool, and bench testing to find process optimization and low-cost process improvements to greatly increase the ability of the WTP to address cylindrospermopsin and other algal toxins. Dr. Rosenfeldt served as Technical Lead, and also served as the technical spokesperson of the panel, assisting the City in communicating the results of the holistic evaluation to the Mayor, City Council, and community groups. <b>Cost:</b> \$98,000 (fee). <b>Specific Role:</b> Technical Lead.		
e.	(1) <b>PFAS Management and Treatment Evaluation, Terre Haute, IN</b>	2024	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 Hazen is developing PFAS management and treatment solutions for 6 groundwater facilities throughout Indiana, including understanding PFAS concentrations, performance of GAC, IX, and alternative media, developing concept-level site plans, and capital and annual operating cost estimates to directly compare technologies for long-term PFAS treatment. <b>Cost:</b> \$238,000 (fee). <b>Specific Role:</b> Technical Advisor, Quality Control.		
f.	(1) <b>Groundwater PFAS Control, Confidential Client, NM</b>	2020	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 Hazen developed tiered solutions for addressing near-term and long-term PFAS challenges through treatment for a >100 well groundwater system impacted by PFAS in New Mexico. Dr. Rosenfeldt evaluated treatment solutions including GAC and ion exchange technology, along with centralized vs. decentralized treatment strategies to meet current and future treatment goals. The ultimate recommendation involved conceptual design of a mobile, trailer-mounted GAC system that could be moved between impacted wells, with a plan identifying triggers for future centralized treatment. <b>Cost:</b> \$69,000 (fee). <b>Specific Role:</b> Treatment Evaluation Lead.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Carlyn Higgins, PhD, PE</b> <b>Senior Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>Potable Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>8</b>	b. WITH CURRENT FIRM <b>4</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Engineering MS, Environmental Engineering BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Dr. Higgins has over four years of professional experience and has been involved in several drinking water, wastewater, and water reuse projects while employed at Hazen. She has gained experience in treatment selection feasibility studies, pilot plant planning and operation, detailed design of water and wastewater treatment facilities, conceptual cost analyses, condition assessments, and data operation management of facilities using programs such as Power BI. She has served as a field operator in the Tampa Bay Water Desalination Pilot and was lead operator and engineer for the City of Plant City Potable Reuse Pilot. Dr. Higgins has specialized experience in field sampling procedures, laboratory data analytics, and development of pilot test studies for drinking water and reuse applications. She has recently gained experience in consumer communication for water quality concepts such as cyanotoxins, PFAS, and potable reuse.  
**Professional Organizations:** American Water Works Association; WateReuse; American Membrane Technology Association; Southeast Desalting Association

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>Indirect Potable Reuse Pilot</b> <b>City of Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>a.</b> Dr. Higgins coordinated with pilot vendors to secure a MF – RO – UVAOP pilot process for the City. She produced a pilot plan of study that was disseminated to Plant City, the Florida Department of Environmental Protection, and the Southwest Florida Water Management District that outlined the activities to be completed to ascertain pilot performance. She designed, constructed, and operated the pilot from February 2022 to May 2023. Dr. Higgins engaged in weekly site visits, and data review and optimization to identify conditions for a full-scale design. Performance trends were monitored which informed pilot maintenance activities such as CIPs on the MF and RO pilots. She was involved in the branding effort for the pilot program including development of a logo, signage, and other educational materials in preparation for pilot tours. She created and executed a program to train operators on monitoring and maintenance activities of the potable reuse train. <b>Cost:</b> \$600,000 (engineering fee) <b>Specific Role:</b> Lead Engineer and Pilot Operator	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Water Treatment Water Quality Improvements Phase 2A Design</b> <b>City of Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>b.</b> Dr. Higgins served as Design Lead for new chemical storage and feed for corrosion inhibitor post-treatment at the City of Sarasota WTP. Developed technical specifications and design drawings for corrosion inhibitor post-treatment. Conducted cost estimates for the project at conceptual, 30%, 60%, 90% and Bid-phase. The project as a whole included new chemical storage and feed for corrosion inhibitor; two new pressure sand filter vessels, with associated backwash supply and spent backwash waste disposal; demolition of redundant finished water storage and chemical storage areas to increase available footprint for future WTP improvements; replacement of existing degasifiers for hydrogen sulfide removal. <b>Cost:</b> \$955,000 (fee) <b>Specific Role:</b> Design Lead	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>JEA Highlands North Grid THM Mitigation Study</b> <b>Jacksonville, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>c.</b> Dr. Higgins serves as lead Project Engineer for the JEA Highlands North Grid THM Mitigation Study. The purpose of this project is to pilot test, design, provide, install, construct, and startup a GAC treatment system at Highlands WTP to provide treated water that contains less than 0.048 mg/L total trihalomethanes (TTHMs) and less than 0.032 mg/L haloacetic acids (HAA5) at the furthest most point of the distribution system served by the Highlands WTP. Duties as Project Engineer include leading the pilot plan development, pilot design, pilot construction, and pilot operation. <b>Cost:</b> \$1.2 million (estimated overall fee) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Toho Water Authority Harmony Water Treatment Plant Design</b> <b>St. Cloud, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>d.</b> Dr. Higgins served as Process Mechanical Design Lead for expansion and improvements for the Harmony Water Treatment Plant with a capacity to treat up to 2.58 mgd. Dr. Higgins led design of sand filtration pretreatment and nanofiltration (NF) membrane treatment at the facility. She also led the design and intended operation for the NF concentrate disposal, which is to blend with reclaimed effluent water for public access reuse. <b>Cost:</b> \$340,000 (fee); \$1.5 million (construction) <b>Specific Role:</b> Process Mechanical Design Lead Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Advanced Treated Water Facility Preliminary Design</b> <b>City of Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>e.</b> Dr. Higgins serves as the lead Project Engineer/Assistant Project Manager for the City of Plant City Indirect/Direct Potable Reuse Preliminary Design. The City is evaluating alternatives to develop a potable reuse project concept to utilize up to 3.5 million gallons per day (mgd) of reclaimed water as a new source of potable water supply. The project scope includes finalizing capacity and location of the facility, creation of preliminary design documents, evaluating the current sourcewater pretreatment program, preparing capital and O&M costs, and as needed continued public education and outreach support. <b>Cost:</b> \$1.19 million <b>Specific Role:</b> Project Engineer/Assistant 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 <b>Savannah Mika, PE Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>Potable Water; Permitting/Regulatory</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>4</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Mika has experience in water and wastewater treatment, with a focus on drinking water treatment. She serves as a key team member on projects that involve source water quality evaluations, feasibility studies for new source water supplies and treatment types, and conceptual and detailed design for treatment facilities. She focuses on the treatment and distribution implications of raw and finished water quality, respectively. Ms. Mika also works in the realm of lead and copper rule compliance. **Professional Organizations:** American Water Works Association, Florida Section of the American Water Works Association

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Lithia Water Treatment Facility Re-rate, Hillsborough County, FL</b>	(2) YEAR COMPLETED: 2022	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Evaluated existing chemical feed and storage equipment at Hillsborough County's Lithia Water Treatment Facility to apply for an increase in rated capacity. This evaluation ensured existing equipment (and planned chemical feed pump replacements) could meet the higher treatment capacity and continue to demonstrate 4-log disinfection. The re-rate application was submitted to and accepted by Hillsborough County FDOH. <b>Cost:</b> \$86,810 (fee) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>South Hillsborough Wellfield Feasibility Study Tampa Bay Water, Hillsborough County, FL</b>	(2) YEAR COMPLETED: 2022	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed water quality characterization study and treatability evaluation for a new wellfield located in South Hillsborough County. The evaluation included development of a conceptual design for an Ozone-GAC facility with options for expansion in the future due to increased capacity at the wellfield or changes in finished water quality limits. Sampling efforts were performed to provide a basis for treatment selection to develop a conceptual layout and cost estimates. <b>Cost:</b> \$239,200 <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>160-Acre Site AWS Project, Toho Water Authority Osceola County, FL</b>	(2) YEAR COMPLETED: 2022	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Mika developed and designed a pilot plan for a new wellfield co-located with Rapid Infiltration Basins that Toho Water Authority uses for disposal of treated wastewater effluent. The treatment processes included different iterations of ozone, biologically active filtration (BAF) using carbon media, and granular activated carbon (GAC) for removal of total organic carbon (TOC) and PFAS. Treatment efficiency results from piloting these carbon-based treatment trains were compared to a concurrent pilot study using nanofiltration membranes. Results of the study were used to determine recommendations for a cost effective and resilient treatment process. <b>Cost:</b> \$50 million (est. construction) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>TB Williams Corrosion Study (LCR), City of Lakeland, FL</b>	(2) YEAR COMPLETED: 2023	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assisted the City of Lakeland with preparation for compliance with the Lead and Copper Rule Revisions. Performed a desktop analysis to identify potential improvements for lead and copper corrosion control in the distributions system and recommendations for subsequent bench scale testing. The final deliverable for this project provided guidance to the City with a plan of action for preparing their lead service line inventory, sampling sites, and recommended additional testing/evaluations to optimize corrosion control in the system. <b>Cost:</b> \$287,095 <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>Lead and Copper Rule Revisions Assistance – Phase 1 City of Tampa, FL</b>	(2) YEAR COMPLETED: 2024	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Mika assisted the City of Tampa in preparation for compliance with the Lead and Copper Rule Revisions (LCRR), specifically, for the lead service line inventory. She reviewed, provided recommendations, made updates the City of Tampa's Lead Service Inventory in preparation for the LCRR compliance deadline on the October 16, 2024 LCRR. Ms. Mika also conducted additional research with the City's archives department and coordinated with Hillsborough County's water department to reduce the number of service lines with an unknown material status in the City's inventory. Documented the data sources and framework in a technical memorandum for development of the lead service line inventory and assisted the City in coordination with Hillsborough County's Department of Health for submission of the inventory. <b>Cost:</b> \$185,665 (fee) <b>Specific Role:</b> Project Engineer	<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 <b>Daniel Schmidt, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>QA/QC / Technical Advisor; Wastewater/Reclaimed Water Treatment</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>47</b>	b. WITH CURRENT FIRM <b>20</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, FL**



16. EDUCATION (DEGREE AND SPECIALIZATION)  
BS, Chemical Engineering

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*  
PE / FL – Chemical Engineering

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

Mr. Schmidt has unique expertise in the area of instrumentation and control design and implementation for systems installed at water and wastewater treatment facilities. He has expertise in a wide variety of instruments, pump controllers, telemetry systems, and programmable controllers used at large and small wastewater treatment plants throughout Florida, including several projects for the City of Tampa in the last 20 years. **Professional Organizations:** Water Environment Federation; American Institute of Chemical Engineers; Florida Engineering Society; Instrument Society of America

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>General Consulting Services City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen and Sawyer has been working with the City of Tampa as part of Miscellaneous Services Contracts since 2002 for the City's water and wastewater systems. Relevant design/construction projects completed under these contracts include: thousands of linear feet of new water pipeline; modifications to WTP ammonia feed and sodium hydroxide chemical storage and feed piping; improvements to WTP chlorine piping systems; replacement of WWTP gravity thickeners and related thickened sludge pumps; replacement of WWTP grit removal systems; and upgrades to the City's lift station telemetry system. <b>Cost:</b> \$1.1 million (est. fee to date) <b>Specific Role:</b> I&C Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>HFC AWWTP Dewatering Improvements City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION 2024
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Replacement of the existing eight belt filter press systems with an all new centrifuge multi-tiered dewatering structure. Design included centrifuge dewatering, polymer storage and feed, sludge storage and feed, water supply booster pumps, conveyor system for semi-automated truck loading, and associated piping, sampling, electrical, and instrumentation systems. <b>Cost:</b> \$15.9 million <b>Specific Role:</b> I&C Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>San Carlos Pump Station Rehabilitation City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Complete rehabilitation of one of the City's largest sewage pump stations. Project included the replacement of the station's large volume dry pit pumps along with reconfiguration of the station's wet well to allow for installation of smaller submersible pumps to increase efficiency and reliability in the operation of the system. Project also included a new odor control system, permanent emergency generators, and installation of automatic coarse screens ahead of the pumps replacing the labor-intensive manual screens. <b>Cost:</b> \$10 million <b>Specific Role:</b> I&C Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Miscellaneous Engineering Services Contract Lee County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen has served as one of the County's general engineering services consultants since 2006. Under this contract, services are provided to the County's water and wastewater utility groups. Completed projects under this contract include: Fort Myers Beach and Fiesta Village WWTF Influent Screen Replacement; Cork Screw WTP - High Service Pump Replacement; Three Oaks WWTP Reuse System Augmentation; and Fiesta Village Headworks Rehabilitation and RAS pumping improvements. <b>Cost:</b> Over \$500,000 (fee) <b>Specific Role:</b> Project Manager, I&C Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Miscellaneous Engineering Services Contract City of Venice, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen has served as one of the City's general engineering services consultants since 2015. Under this contract, services are provided to the County's water and wastewater utility groups. Completed projects under this contract include: replacement of reaeration blowers at the City's WWTP, funding assistance tasks, installation of a second major force main under I-75, replace and additions to the effluent pumping system at the City's WWTP, septic tank replacement evaluations, permitting assistance, and stormwater improvement projects. <b>Cost:</b> Over \$500,000 (fee) <b>Specific Role:</b> I&C Engineer	<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 <b>Caryssa Joustra, PhD, PE Senior Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>Wastewater/Reclaimed Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>9</b>	b. WITH CURRENT FIRM <b>5</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Engineering MS, Environmental Engineering MBA, Project Management Specialization BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Civil Engineering	



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Dr. Joustra is a process mechanical engineer with comprehensive experience in planning and design of water and wastewater treatment systems, associated permitting, and construction activities. Her wastewater project experience includes work on biological nutrient removal processes, denitrification filters, chemical feed facilities, and anaerobic digestion within wastewater treatment facilities. She has previous public-sector experience in planning, executing, monitoring, and controlling utilities CIP projects. **Professional Organizations:** Water Environment Federation; Florida Water Environment Association

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Town &amp; Country/Rocky Creek Vacuum Sewer Expansion Hillsborough County, FL</b>	Ongoing	Ongoing
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	
Expansion to the vacuum sewer system in the Rocky Creek Drive neighborhood off Memorial Blvd and Hillsborough Ave which was the first vacuum sewer system in Hillsborough County. The expansion includes 32 additional connections and an extension of approximately 4,010 linear feet of the vacuum main to the end of S Lagoon St. and Troydale Rd. Dr. Joustra designed the vacuum main extension profile and proposed residential connection locations based on site walkthroughs and survey coordination, prepared permitting documentation, and assisted with project management and project stakeholder coordination. <b>Cost:</b> \$417,700 (fee); \$2.05 million (construction, estimated) <b>Specific Role:</b> Project Engineer		
<b>WRF Process Evaluation and Optimization, Neptune Beach, FL</b>	Ongoing	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	
Project used a piggy-back contract vehicle to evaluate and provide process improvement recommendations for a 0.80 MGD AADF design flow Integrated Fixed-Film Activated Sludge (IFAS) WRF. Phase 1 included BioWin model development to compare performance, plant capacity, and diffuser type under scenarios with and without costly IFAS media replacement. Using capacity limitations summarized in Phase 1, Phase 2 compared air requirements at design capacity for each scenario with existing plant blower capacity for the conversion of excess anoxic volume to additional aeration capacity for improved nitrification. Guidance was included for equalization piping tie-ins and clarifier flow control. <b>Cost:</b> \$67,290 (fee) <b>Specific Role:</b> Project Manager		
<b>Howard F. Curren AWTP Master Plan Improvements – Phase 1 City of Tampa, FL</b>	Ongoing	Ongoing
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	
Project addresses master plan improvements to the 96-mgd average daily flow, Type I, two-stage, high-water-activated sludge biological nitrification/denitrification domestic WWTP. Dr. Joustra led tasks to evaluate and design anaerobic digestion system improvements, which included existing digester rehabilitation, construction of new digesters, mechanical mixing systems, digester covers for biogas storage, flow meters and process controls, recirculation piping and pumps for digester heating, digester heat exchangers and boilers, and coordination of digester biogas production and heating with a new combined heat and power system. Dr. Joustra performed calculations to evaluate anaerobic digestion process efficiency under various hydraulics and solids capacities, operational schemes, and seasonal conditions. <b>Cost:</b> \$280,000 (fee) <b>Specific Role:</b> Project Engineer		
<b>Fort Myers Beach Water Reclamation Facility Aeration Process Flows, and Loadings Study, Lee County, FL</b>	2021	N/A
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 included evaluation of short-term improvements to improve the current treatment capacity of a permitted 6-mgd AADF facility based on assessment of the aeration and anoxic basins. Dr. Joustra evaluated short-term and operational improvements with regards to their impact on plant capacity, plant operations, chemical and energy use, and cost to develop a short-term capital improvement plan with the County. Dr. Joustra developed cost estimates for each option, including instrumentation for monitoring and control, glycerin-based supplemental carbon chemical feed systems for enhanced denitrification, and repurposing existing gravity filters as denitrification filters. <b>Cost:</b> \$99,780 (fee) <b>Specific Role:</b> Project Engineer		
<b>Cypress Manor WWTF Plant Improvements, Pasco County, FL</b>	2021	Ongoing
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 involves design phase, permitting, and bidding services for replacement of an existing 0.068-mgd extended aeration package wastewater treatment plant with a new 0.075-mgd Modified Ludzack-Ettinger (MLE) facility with optimized treatment. Project includes review of historical plant operational challenges, special sampling plan, development and calibration of a BioWin model for design and optimization of the proposed replacement plant, and evaluation of alternatives for plant replacement. Dr. Joustra developed process flow diagrams and technical specifications, as well as a proposed sequence of construction to maintain plant operations during construction, testing, and commissioning of the new plant. Dr. Joustra helped prepare required permitting documentation for FDEP. <b>Cost:</b> \$199,591 (fee), \$2.6 million (construction) <b>Specific Role:</b> Project Engineer		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Jeffrey Rosman, PE Associate</b>	13. ROLE IN THIS CONTRACT <b>Wastewater/Reclaimed Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>13</b>	b. WITH CURRENT FIRM <b>4</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL, PA, NY – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Rosman is a water/wastewater engineer with 13 years of engineering consulting experience in planning, design, permitting, bid, procurement, and construction phase services for municipal, environmental, and industrial clients in both the public and private sectors. He has served as Project Manager, Project Engineer, Task Manager, Engineer-of-Record, and Quality Assurance/Quality Control (QA/QC) Lead during the planning and design of a multitude of projects of varying breadth and depth. The bulk of his project work has focused on pump stations, water and wastewater treatment facilities, and other facilities ranging in capacity from less than one million gallons per day (mgd) to greater than 300 mgd. **Professional Organizations:** Water Environment Federation; Florida Water Environment Association; Construction Specifier Institute

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Tampa Bay Water High Service Pump Station Ball Valve Replacement, Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2025-2027 (est.)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rosman was responsible for a project involving design, bidding, and construction phase services in connection with improvements at Tampa Bay Water's Regional High Service Pump Station. Improvements include replacement of six 24-inch diameter, hydraulically-actuated ball valves, which are interlocked with pump start/stop commands to help mitigate hydraulic surge and prevent reverse flow during pump shutdowns. The project also included piping improvements, new bladder tanks, and new process instrumentation. <b>Cost:</b> \$5.8 million (est. construction) <b>Specific Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>EWRF Additional Effluent Transfer Pump, City of Venice, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rosman provided design and permitting services in connection with a project involving pumping and piping improvements to expand effluent transfer pumping capacity and provide redundancy. <b>Cost:</b> \$180,000 (fee); \$1.28 million (construction) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>PRMRWSA Regional Reservoir No. 3 (PR3) Preliminary Design and Permitting, DeSoto County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rosman was responsible for the conceptual and preliminary design of a new 258-mgd river intake/pump station and a new 117-mgd reservoir intake/pump station that serves to transport water from the Authority's reservoir system to the head of the water treatment process. The project also included large-diameter (54- to 84-inch) steel water pipeline in connection with the design of the new above-grade 9-billion-gallon Reservoir No. 3. <b>Cost:</b> \$681,000 (est. fee); \$432 million (est. construction) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>Howard F. Curren AWTP Master Plan Improvements, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rosman worked on this design-build project to rehabilitate the Howard F. Curren Advanced Wastewater Treatment Plant. This project included the development of a hydraulic model for the entire wastewater treatment plant liquid stream, preliminary design of HPO upgrades, and DAR improvements aimed at improving nitrogen removal efficiency. <b>Cost:</b> \$2.74 million (fee) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>JEA Nassau WRF Deep Injection Well Surface Facilities, Jacksonville, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Rosman is the Project Engineer and Engineer-of-Record responsible for the design of the surface facilities in connection with a new 2-mgd deep injection well (DIW). Mr. Rosman is responsible for the design of the wellhead for the DIW, a single zone monitoring well with submersible sample pump, and a new pump station featuring multi-stage, tee-head vertical turbine pumps installed in closed bottom cans. The project also included GMP review and construction phase services. <b>Cost:</b> \$2.3 million (construction) <b>Specific Role:</b> Project Engineer; Engineer-of-Record	<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 <b>Samantha Lemaster, PE Associate</b>	13. ROLE IN THIS CONTRACT <b>Wastewater/Reclaimed Water</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12</b>	b. WITH CURRENT FIRM <b>7</b>

15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Tampa, FL</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Chemical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Ms. Lemaster has over 12 years of experience in the planning, design, permitting, bidding and construction management of water and wastewater treatment plants, pumping stations, and collection systems ranging up to 350 mgd for both public and private municipalities. This includes plant upgrades, pumping systems, process mechanical equipment, valves, pressure and gravity piping systems, and miscellaneous process equipment. She has served as Project Engineer on multiple projects during the design and construction phases. **Professional Organizations:** Design-Build Institute of America; Water Environment Federation.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>South Gate Master Pump Station Improvements Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A

a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
 Ms. Lemaster served as Project Engineer providing design, permitting, bidding, and construction services for the replacement of the pump station. The new pump station provided increased flow capacity by converting the existing wet well to a master manhole while constructing a new dual wetwell and upstream junction box, standby diesel generator and diesel pump, odor control system, and discharge piping with connection to the existing collection system. Bypass pumping will be provided during construction to maintain operations of the lift station during the upgrades. The design also takes into consideration provisions for screens to be installed in the future as well as space for capacity expansion. **Cost:** \$685,000 (fee). **Specific Role:** Project Engineer.

(1) TITLE AND LOCATION (City and State) <b>Wastewater Hydraulic Modeling and LS 30 Pump Sizing City of Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A

b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
 Ms. Lemaster served as Project Engineer for the evaluation of an existing hydraulic model and the impact of tying together two existing force mains and pumping to the wastewater treatment plant. The effort included the incorporation of the proposed interconnect into the hydraulic model and evaluated different flow path conditions under wet weather conditions to help the City identify if the interconnect would be hydraulically beneficial to the existing system. These results were used to review on the impact on additional smaller lift stations and presented in the form of a technical memorandum including the hydraulic analysis, graphs providing flow and total dynamic head requirements for pump sizing, capital costs, reliability, and future lift station capacity. **Cost:** \$45,000. **Specific Role:** Project Engineer.

(1) TITLE AND LOCATION (City and State) <b>Howard F. Curren AWTP Dewatering Facility Replacement Design City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2023

c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
 Ms. Lemaster served as Project Engineer for the design, permitting, bidding, and construction services for the evaluation and replacement of the biosolids dewatering system. The plant has an average design flow of 96 mgd and produces 31 DT/day of solids. The design included the replacement of eight existing belt filter presses with three high-solids centrifuges, replacement of existing feed pumps, a new bulk polymer feed system, new cake conveyors, and a new structure for the equipment upgrades. Electrical and instrumentation upgrades were also included for the new dewatering system. The preliminary design involved the evaluation of different site locations and building layouts, centrifuge capacity versus run time and life cycle costs of equipment based on shift operations. These considerations and recommendations were included in the final design, as well as provisions to include a fourth centrifuge in the future. **Cost:** \$31.5 million. **Specific Role:** Project Engineer.

(1) TITLE AND LOCATION (City and State) <b>Little Road Water Treatment Plant Pumping System Upgrades Pasco County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) Ongoing

d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
 Ms. Lemaster served as Project Engineer providing design, permitting, bidding, and construction services for a new 20-mgd water treatment facility and operations center within an existing property. The project included five new pumps, new chemical storage and feed facility for ammonium sulfate, sodium hypochlorite, and sodium hydroxide, new chemical injection points, and upgrades to electrical, instrumentation and controls. **Cost:** \$2.05 million (fee); \$14.5 million (est. construction). **Specific Role:** Project Engineer.

(1) TITLE AND LOCATION (City and State) <b>Northeast Regional Wastewater Treatment Facility Polk County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing

e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
 Ms. Lemaster served as Project Manager for the upgrades to an existing dewatering building to increase capacity. The design includes the replacement of existing belt filter presses with new centrifuges and sludge feed pumps, new bulk polymer and containment area, new screw conveyors, and upgrades to the electrical and instrumentation. **Cost:** \$484,000 (fee); \$13.7 million (est. construction). **Specific Role:** Project Manager.

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Sean FitzGerald, PE Vice President</b>	13. ROLE IN THIS CONTRACT <b>QA/QC / Technical Advisors; Conveyance</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>36</b>	b. WITH CURRENT FIRM <b>19</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Cincinnati, Ohio</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL, OH, KY, NY, TX, Washington DC, MN – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
 Mr. FitzGerald has 35 years of experience in conveyance planning, design, and asset management. He serves as Hazen’s Corporate Conveyance Practice Leader and has helped develop and implement numerous conveyance-related programs across the country utilizing industry best practices for program controls as well as using innovative tools used to manage, track, and visualize work progress. Many of these programs include detailed asset mapping, condition assessment, and rehabilitation and replacement planning and budgeting. **Professional Organizations:** Water Environment Federation: Collection System Committee; Ohio Water Environment: Association Collection System Committee; American Water Works Association; Kentucky-Tennessee Water Environment Association; Construction Management Association of America; Water Environment Federation.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Asset Management CMOM Development and Implementation Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
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 Mr. FitzGerald serves as Technical Lead for development and implementation of the Sarasota County asset management and CMOM programs. Work started in 2020, and program tasks include development and implementation of the CSAMP that incorporates all aspects of the collection and transmission system. Supported development of as-is and to-be business process mapping to support the program and development of the lift station risk framework, asset inventory process, and maintenance programs. Also supported evaluation of the CMMS software to consider switching to a more GIS-focused program. <b>Cost:</b> \$4 million (fee). <b>Specific Role:</b> Technical Lead.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Pump Station and Force Main Program, Jefferson County Environmental Services, Jefferson County, AL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 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 As part of the overall asset management program, Mr. FitzGerald led the risk assessment for 177 pump stations and 95 miles of force main. The risk analysis included a condition assessment of all 177 pump stations including hydraulic capacity. The force main risk analysis included a detailed profile assessment to identify areas of potential corrosion. A detailed GIS Model Builder risk model was developed to prioritize force mains for further assessment. A prioritized CIP was developed for all pump station improvements. <b>Cost:</b> \$49.5 million (fee); >\$400 million (est. construction). <b>Specific Role:</b> Overall Technical Manager/Lead.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sanitary Sewer Master Plan Pinellas County Public Utilities, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
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 development of an integrated wastewater master plan. Tasks included detailed hydraulic analysis of over 150 flowmeter locations, SCADA data from over 170 lift stations, development and calibration of a detailed collection system model, and development of an integrated sewer system master plan including hydraulic improvements to address SSOs, asset management improvements, and prioritization of septic to sewer program. Work also includes comprehensive rehabilitation program to address private and public sources of I/I. <b>Cost:</b> \$2.4 million (fee). <b>Specific Role:</b> Technical Lead.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Pressure Pipe Assessment and Rehabilitation Program City of Boca Raton, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2023
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 Mr. FitzGerald serves as Technical Lead for a program to develop and implement a prioritized water distribution and force main assessment and rehabilitation/replacement program for the entire City. The program included development of a refined risk model resulting in the use of remaining useful life and consequence of failure to support condition assessment and asset renewal funding planning resulting in a living Master Plan. <b>Cost:</b> \$115, 000. <b>Specific Role:</b> Technical Lead.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Sewer Design and Implementation Program City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
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 Mr. FitzGerald is providing technical support for the City’s Consent Order (CO) Implementation. The Florida DEP CO requires the City to develop and implement a robust AM/CMOM and capacity improvement program to reduce spills associated with lack of capacity, pipe failures, and blockages. Played key role in gaps analysis, development of levels of service and performance measures, and risk assessment. Served as Project Manager for development and implementation of the full mapping of the City’s collection and transmission system. The initial plan includes the development and use of machine learning automated imagery analysis to locate manholes, reducing the survey costs dramatically. Managed the development of the full sewer geodatabase schema and population of the data from field surveys and as-built data. <b>Status:</b> The program started in 2017 and is expected to continue until 2026. <b>Cost:</b> \$26 million (estimated contract value), \$248 million (estimated program value). <b>Specific Role:</b> Project Manager/Project Engineer.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>David Demaree, PE Associate</b>	13. ROLE IN THIS CONTRACT <b>Pump Stations/Pipelines</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>16</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Mechanical Engineering BS, Communications	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil, Mechanical
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Demaree has 15 years of engineering experience in the private and public sectors, including project and construction management, planning and evaluation, design, and permitting. Specializing in conveyance and pump station design, he is also well-versed in hydraulic modeling for purposes of evaluating capacity analysis, pipe, pump and wet well sizing, system pressures, and fire flow requirements. **Professional Organizations:** American Water Works Association, Water Environment Federation

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>Comprehensive Infrastructure for Tampa's Neighborhoods Project Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>a.</b> Design Engineer providing design, permitting, and construction management services for approximately 93,000 linear feet of proposed water main. The Comprehensive Infrastructure for Tampa's Neighborhoods Design Build Project is currently replacing aging potable water main throughout four City of Tampa neighborhoods. Mr. Demaree performed route design in the East Tampa and Forest Hills neighborhoods that included open-cut, horizontal directional drill, and jack-and-bore construction methods, using PVC, ductile iron, and HDPE piping ranging in size from 4-inches to 12-inches in diameter. Mr. Demaree's permitting efforts included the creation, management, and coordination of water permits submitted to the Department of Health, Department of Transportation, and CSX Transportation. Additionally, Mr. Demaree is providing construction management services including shop drawing and RFI submittal reviews, and construction site visits. <b>Cost:</b> \$4.3M (design) <b>Specific Role:</b> Design Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Lockhart WTP Upgrades and Expansion, Hernando County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>b.</b> Project Manager for a two-phase water treatment plant upgrade and expansion project, utilizing design-bid-build and design-build delivery vehicles. Mr. Demaree performed project and construction management services for the initial upgrade phase of the Lockhart WTP and assisted the design consultant with modeling efforts to size an onsite well pump. The first phase of this project included piping, disinfection, I&C, and SCADA modifications. For the second phase of the project, Mr. Demaree served as Project Manager and coordinated with a consultant to create an RFQ, RFP, and DCP that conformed to the County's legal and purchasing requirements. This phase of the project includes construction of a new 2-million-gallon GST, HSPS, outfitting of well #3, and full I&C and SCADA overhaul. <b>Cost:</b> \$10.4M (construction) <b>Specific Role:</b> Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>NSU, VWCA, and LSSA Disinfection System Rehabilitation The Villages, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>c.</b> Project Manager and Engineer-of-Record providing design and bidding services for the rehabilitation of chlorine disinfection systems at five water treatment plants and two irrigation pump stations within The Villages. Mr. Demaree leads a team of engineers to identify and design improvements for the disinfection systems, including the replacement of all associated chlorine gas equipment, piping, fittings, and appurtenances, and the addition of an automated gas shutoff systems. <b>Cost:</b> \$130,000 (design) <b>Specific Role:</b> Project Manager and Engineer-of-Record	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Peace River (PR3) Reservoir Project, Desoto County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>d.</b> Engineer-of-Record providing design services for 17,000 linear feet of proposed raw water main. The PR3 Reservoir is a proposed 9-billion-gallon water reservoir that will provide additional potable water supply for the Peace River Manasota Regional Water Supply Authority. The project includes a new reservoir, a second intake structure on the Peace River, a second reservoir pump station, raw water pipelines, and pipeline interconnections. Mr. Demaree is performing raw water main design that includes open-cut and microtunneling construction methods using steel piping ranging in size from 36-inches to 84-inches in diameter. <b>Cost:</b> \$1.9M (design) <b>Specific Role:</b> Engineer-of-Record	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) <b>Boyette Reservoir Piping Improvements, Pasco County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>e.</b> Project Manager and Engineer-of-Record providing design, bidding, and construction management services for replacement of an aboveground 30-inch flanged coupling adapter and addition of a solenoid pilot system to an existing 36-inch pressure sustaining valve to allow for open/close operation remotely. Ancillary efforts include evaluating adjacent piping and fittings for signs of shifting and correcting as necessary. The Boyette Reservoir Piping Improvements project will correct deficiencies within an aboveground section of 30-inch piping and belowground section of 42-inch piping that supplies water to the reservoir from an off-site reclaimed water piping network and permits recirculation of the reservoir water. <b>Cost:</b> \$355,000 (construction) <b>Specific Role:</b> Project Manager and Engineer-of-Record	<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 <b>Fernando Alvarado, PE Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>Pump Stations/Pipelines</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>4</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering BS, Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FL PE
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Mr. Alvarado is a water/wastewater engineer with experience in planning, design, hydraulic modeling, and construction oversight of water and wastewater treatment facilities. He has performed engineering assessments and calculations for process mechanical design in treatment facility improvements and expansions. Mr. Alvarado's work includes hydraulic and surge analysis for potable and wastewater systems, as well as direct collaboration with project engineers to support permitting, procurement, and construction-phase services. Additionally, he has contributed to research projects and pilot programs focused on potable and wastewater treatment, assisting with sampling, instrument calibration, and data analysis. **Professional Organizations:** American Water Works Association.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>South County Advanced Wastewater Treatment Facility Modular Expansion, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Alvarado serves as Project Engineer and is responsible for design, permitting, construction, testing, start-up and turnover of the expanded and upgraded facilities needed to increase the capacity of the existing facility from 10 to 13 mgd. The project is part of the County's South County One Water Program, which includes upgrades and modifications of various facilities to provide additional pressure, flow and service within the rapidly growing area. <b>Cost:</b> \$67 million <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Valrico Advanced Wastewater Treatment Facility (AWWTF) Biological Treatment Capacity Evaluation and Improvements Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) TBD
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Alvarado serves as Engineer for this project and is responsible for the development of hydraulic modeling and support for detailed design of oxidation ditch mechanical surface aerator upgrades at the County's 12 mgd Valrico AWWTF. Improvements include new upgraded mechanical surface aerators, rotating weir mechanisms, VFDs, and electrical improvements. <b>Cost:</b> \$7.7M (construction est.) <b>Specific Role:</b> Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren AWTP Master Plan Improvements – Phase 2 City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) Ongoing
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Alvarado assisted in design improvements for the rehabilitation and upgrade of the 96-mgd AWTP. This plant is operated to discharge AWT, high-level disinfected and dechlorinated effluent to Hillsborough Bay. Residuals can be heat dried to meet Class AA standards and can be dewatered for Class B land application. The Master Plan includes a review of ongoing projects; existing unit process evaluations; an assessment of the major equipment and current operations; technology evaluations and process alternatives; and selection of process improvements to reduce operating costs, restore reliability, and improvement efficiency. Mr. Alvarado assisted in process and mechanical design for the main pumping station and high purity oxygen reactor improvements. He helped develop the design and hydraulic analysis for digested, recirculation, and mixing pumps for the biogas and digestion system improvements. He was also responsible for the design efforts for the IMLR pump and piping for the dissolved air reactors and blower building improvements. <b>Cost:</b> \$5 million (design), \$254 million (construction) <b>Specific Role:</b> Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Jacksonville Electric Authority (JEA) Nassau Water Reclamation Facility (WRF) Expansion, Jacksonville, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Alvarado is involved in design for the reject water improvements of the expansion of the existing Nassau Regional WRF using CMAR delivery. This expansion from 2 to 4 mgd AADF included a completely new 2.0 mgd treatment train based on oxidation ditch technology, with headworks, secondary clarifiers, UV disinfection, disk filters, and a reclaimed water tank. The existing 1.5-mgd membrane bioreactor facility also required rehabilitation. Mr. Alvarado supported the design efforts for the interim reject pump station that allowed the plant to return a portion of volume of the existing rapid infiltration basin to the process flow, and the analysis and report for long-term reject water strategies. <b>Cost:</b> \$87.1 million (construction GMP) <b>Specific Role:</b> Assistant Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>PRMRWSA Peace River Regional Reservoir (PR3) Final Design DeSoto County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Alvarado serves as an Engineer responsible for leading the design of intake and reservoir pump station gates and supporting the Engineer-of-Record (EOR) for the reservoir pump station design. The project included the design of a new reservoir pump station capable of transporting up to 78 MGD of raw water to the treatment process and also featured a 258 MGD river intake and pump station, along with large-diameter pipelines (54"-84") and other buried infrastructure. <b>Cost:</b> \$670,000 (fee) <b>Specific Role:</b> Engineer	<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 <b>Alicia Mata, PE</b> <b>Senior Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>WW Collection/SSES</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>10</b>	b. WITH CURRENT FIRM <b>10</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Management BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Mata's experience includes project and program management, asset management, distribution systems hydraulic modeling, flow measurements and wastewater sampling, industrial wastewater analysis, sanitary sewer evaluation surveys, alternatives analysis, utility management programs, and conceptual design for water and wastewater treatment plants. Her experience also includes operation procedures development for wastewater collection systems.  
**Professional Organizations:** FWEA.

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>One Water - South Wastewater Conveyance and Treatment Hillsborough County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Project consists of a state-of-the-art advanced wastewater treatment facility (AWWTF), a new wastewater pump station, new large-diameter force mains, and a new large-diameter reclaimed water main. The Project will be delivered using the Progressive Design-Build (PDB) project delivery method by the Garney-Hazen Team, with the following phases Phase 1A – Preliminary Evaluations, Phase 1B – Basis of Design, Phase 1C – Detailed Design, Phase 2 – Construction Services. <b>Cost:</b> \$500 million <b>Specific Role:</b> Deputy Design Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) <b>Capacity, Management, Maintenance and Operation Program (CMOM), Sarasota County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The overall CMOM development and implementation will be conducted as a multi-phase, multi-authorization six-year (2020-2025) project. A major focus is the implementation of a CMOM Program to ensure the sustained performance of the wastewater collection/transmission system over time. Ms. Mata has been leading the coordination of the 5-year CMOM program. This initiative encompasses the entirety of the County, spanning across more than 12 distinct departments responsible for maintaining an extensive infrastructure, including over 770 miles of gravity sewers, 730 lift stations, 530 miles of pressurized force mains, and 1,000 air release valves (force main). <b>Cost:</b> \$7.3 million <b>Specific Role:</b> Program Coordinator/Assistant Program Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) <b>Upgrade of Lift Station (LS) 54 and LS 78 at Miami International Airport, Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE LS 54 (3 hp) and LS 78 (7.5 hp) are part of a system of more than 20 lift stations that compose a manifolded force main system. Both stations had experienced pumping issues related to maximum operating range and discharge velocity, requiring maintenance resources on a constant basis. As Project Engineer, Ms. Mata worked on the hydraulic analysis of the existing pumps, the selection of new pumps, and documenting the impact of the upgrades in the system. These tasks required using a calibrated hydraulic model in SewerCAD. Results were compiled on separate basis of design report (BODR) for each station. <b>Cost:</b> \$74,000 <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) <b>Development and Calibration of the Wastewater Transmission System Hydraulic Model for Big Coppitt, Monroe County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hazen was tasked by the Florida Keys Aqueduct Authority (FKAA) to develop a Wastewater Transmission System Hydraulic Model for the Big Coppitt service area. The system included 20 lift stations, approximately 37,939 linear feet of force mains, and 71,437 linear feet of gravity mains from which approximately 8,880 linear feet are part of the transmission system. The model was developed in InfoWorks, calibrated with field data, and used to identify potential improvements to the system based on existing configuration and scenarios that considered additional flows. As Project Engineer, Ms. Mata prepared a report and maps based on ArcGIS to compile the model development and calibration methodology, results, and recommended improvements to the system. <b>Cost:</b> \$90,000 <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) <b>Miami Beach Pump Station 28 Upgrade Alternative Analysis Hillsborough County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involved an alternative analysis and development of a Basis of Design Report (BODR) to document the upgrade of Pump Station 28 (PS 28), the City of Miami Beach's largest lift/booster wastewater pump station and one of the most critical components in the wastewater collection and transmission system. PS 28 consists of three 350-hp pumps for 28B and three 200-hp pumps for 28L. The alternative selected involved maintaining the existing configuration, sizing, and capacity of the station while replacing all mechanical and electrical equipment with new components of the same or similar capacity. Mrs. Mata participated as a project engineer, using the model developed in InfoWorks to establish the system curve considering the complex manifolded transmission system. <b>Cost:</b> \$96,000 <b>Specific Role:</b> Assistant Engineer	<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 <b>Dhara Mody, EI Assistant Engineer</b>	13. ROLE IN THIS CONTRACT <b>WW Collection/SSES</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>8</b>	b. WITH CURRENT FIRM <b>4</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering, 2009 BS, Civil Engineering, Maharaja Sayajirao University, Gujarat, India, 2000	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FE / FL – Environmental/Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Mody has 8 years of experience in the planning, design, permitting, and construction management of water and wastewater treatment improvements, including treatment plant upgrades, master planning, condition assessments, permitting, and construction management. Her experience also includes reclaimed water and distribution/collection system engineering, design and construction reviews of new service connections, fire hydrants, isolation valves, blow off valves, and other appurtenances needed during construction. **Professional Organizations:** Florida Water Environment Association

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Comprehensive Infrastructure of Tampa Neighborhood City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Design Assistant Engineer for two of the neighborhoods for the City of Tampa – Comprehensive Infrastructure for Tampa’s Neighborhoods Design Build Project. <b>Cost:</b> \$4.3 million <b>Specific Role:</b> Lead Design Assistant Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION <i>(City and State)</i> <b>133rd Ave Water Main Replacement Pinellas County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) TBD
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Design Engineer for approximately 7,200 LF of potable water lines ranging in size between 2- to 6-inches in size. Efforts include new service connections, new fire hydrants, isolation valves, blow off valves, and other appurtenances needed for construction. <b>Cost:</b> \$2 million <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Utilities Extension Project (UEP N2) City of Cape Coral, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Mody was responsible for Contract Areas 3 and 4 design of new potable water mains, gravity wastewater mains, wastewater force mains, irrigation main as well as replacement of existing storm drain systems. Other responsibilities included preliminary design, quantity take-offs, utility coordination and planning, and applicable phasing and permitting. <b>Cost:</b> \$160 million <b>Specific Role:</b> Lead Project Engineer	<input type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Wastewater Collection System Program Management Project City of Clearwater, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Ms. Mody oversaw the planning and implementation of over \$150 million of capital projects and contractor repair and rehabilitation work. <b>Cost:</b> \$40,000 (report) <b>Specific Role:</b> Assistant Project Engineer	<input type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Sanitary Collection System Improvements Phase 2 City of Arcadia, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead Design Assistant Engineer for Arcadia Water and Sewer Replacement Project and management of construction services. <b>Cost:</b> \$9.5 million <b>Specific Role:</b> Lead Design Assistant Engineer	<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 <b>Kylee Kavanagh, EI</b>	13. ROLE IN THIS CONTRACT <b>WW Collection/SSSES</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>1</b>	b. WITH CURRENT FIRM <b>1</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Fort Myers, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) EI / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Ms. Kavanagh is currently involved in various sanitary sewer evaluation and wastewater projects across Florida. Her experience includes working on multiple capacity, management, operations, and maintenance programs and other projects that include asset management, pipeline assessment, pump station design, and construction administration services. Ms. Kavanagh is also NASSCO pipeline, manhole, and lateral assessment certification program certified.  
**Professional Organizations:** Florida Water Environment Association, American Water Works Association.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Fiesta Village WWTP RM Upgrade and Deep Injection Well and Fort Myers Beach WWTP Deep Injection Well #2, Lee County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Kavanagh is supporting construction administration of surface facility improvements at both the Fiesta Village and Fort Myers Beach WRFs associated with the 14-mgd, 3,000-foot-deep injection well (DIW) and five-mile long 24-inch-diameter reuse transmission main project. Elements of construction included a new vertical turbine effluent transfer pump stations at both sites as well as extensive large-diameter on-site piping and valving and electrical facilities. <b>Cost:</b> \$3.44 million (fee). <b>Specific Role:</b> Assistant Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>Preliminary Engineering for WRF Screening and Pumping Improvements, Gasparilla Island Water Association, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Kavanagh is supporting a preliminary engineering report to evaluate multiple facilities at the Gasparilla Island Water Association WRF. The project includes the evaluation of a new master lift station with coarse screening, leveraging existing assets for equalization, and yard piping. The project also includes an evaluation on the rehabilitations versus of a replacement for the on-site administration building. The report will provide site layouts, a preliminary schedule, and an opinion of probable construction cost for all proposed improvements. <b>Cost:</b> \$94,600 (fee). <b>Specific Role:</b> Assistant Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>Fort Myers Beach WWTP Belt Filter Press Replacement Project, Lee County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Kavanagh supported design for the project and is also supporting construction services for dewatering system improvements with the installation of two new belt filter presses, associated sludge feed pumps, polymer system, dewatering building improvements, dewatered cake conveyance and associated electrical and instrumentation improvements. <b>Cost:</b> \$613,030 (fee). <b>Specific Role:</b> Assistant Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>Capacity, Management, Operations &amp; Maintenance (CMOM) Program Development and Implementation, Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Kavanagh is working on the Sarasota County CMOM program, which involves evaluation and improvement of all aspects of the County's sewer collection system assets including gravity sewers, force mains, and lift stations. The County has over 12 different departments that are involved in managing, operating, and maintaining over 770 miles of gravity sewers, 730 lift stations, and 530 miles of pressurized force mains. <b>Cost:</b> \$4 million (fee). <b>Specific Role:</b> Assistant Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>CMOM Program Implementation, City of Clearwater, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Kavanagh is working on the implementation of 37 action items as part of the City's CMOM Program. The City has implemented a system-wide Wastewater Collection System Program for overall assessment, coordination, and replacement of critical system infrastructure. <b>Cost:</b> \$770,449 (fee). <b>Specific Role:</b> Assistant Engineer.	<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 <b>Josefin Hirst, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Master Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20</b>	b. WITH CURRENT FIRM <b>19</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Orlando, Florida</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Soil and Water Science BS, Biosystems Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
 Ms. Hirst has 20 years of experience in environmental engineering and has worked on a wide variety of biosolids projects, including master planning, permitting, pilot testing, treatment design and construction projects. She has provided professional engineering services evaluation and design of digestion treatment facilities, dewatering facilities, drying facilities and conveyance systems. She served as Project Engineer for the recently completed Biosolids System Alternatives Evaluation for the HFCAWTP Master Plan project. **Professional Organizations:** Water Environment Federation; American Water Resources Association

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren AWTP Master Plan City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 b. Project Engineer for the biosolids treatment evaluations. The HFC AWTP is permitted to treat 96 mgd with a two-stage, high rate activated sludge treatment plant. This plant is operated to discharge AWT, high-level disinfected and dechlorinated effluent to Hillsborough Bay. Residuals can be heat dried to meet Class AA standards and can be dewatered for Class B land application. The Master Plan included a review of ongoing projects; existing unit process evaluations; an assessment of the major equipment and current operations; technology evaluations and process alternatives; and selection of process improvements to reduce operating costs, restore reliability, and improvement efficiency. These improvements were used to develop a list of required plant capital improvements **Cost:** \$611,975 (fee) **Specific Role:** Project Engineer

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Polk County Utilities Design Services Polk County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 b. Ms. Hirst is helping provide utilities design services to Polk County under the current Hazen contract, which started in 2007. These projects include: Southwest Regional Utility Service Area (SWRUSA) Pressure Reducing Station Modifications; Pollard Road Water Treatment Plant; Dewatering Facilities at Five Wastewater Treatment Facilities; and Septage Receiving Station Feasibility Study. **Cost:** \$785,103 (fee) **Specific Role:** Project Engineer

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Phillippi Creek Septic System Replacement Plan Program Management, Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 c. Hazen replaced approximately 14,000 sub-standard septic systems and 15 small wastewater treatment plants by expanding the collection system and treatment facilities. This included an evaluation of collection system alternatives, leading to the selection of low-pressure and vacuum sewers. Ms. Hirst provided an update, which incorporated a hybrid gravity sewer system that utilizes smaller pump stations in areas that are too small for vacuum sewer and cannot be easily served by gravity. She prepared a facility plan to assist in obtaining low interest State Revolving Fund loans for implementing its five-year Capital Improvement Program. **Cost:** \$140 million (construction) **Specific Role:** Technical Lead

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Thomas P. Smith Water Reclamation Facility Improvements Project Tallahassee, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 d. The Thomas P. Smith Water Reclamation Facility (TPSWRF), rated at 26.5 mgd on an annual average daily flow (AADF) basis, utilizes an activated sludge process to produce secondary effluent. To reduce nutrient loading to the Southeast Farm, the City upgraded the entire WWTP to Advanced Wastewater Treatment (AWT) standards. Ms. Hirst served as Assistant Engineer and was involved in plant evaluations and cost estimating. The improvements included solids processing facilities. The new solids processing facilities included gravity belt thickening, a septage/FOG receiving and separation facility, a centrifuge dewatering facility, and a new thermal sludge drying facility. **Cost:** \$600,000 (design); \$174 million (construction) **Specific Role:** Assistant Engineer

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Rocky Creek Vacuum Sewer System Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 e. This program identified wastewater management solutions, including innovative technologies and approaches that can be applied to failing septic systems. The master plan developed by the program will identify alternative collection system designs, advanced on-site wastewater treatment systems, decentralized treatment technologies, institutional frameworks, and other innovative approaches to upgrade approximately 65,000 septic systems that remain in the JEA service area. Ms. Hirst assisted in identification of potential funding sources for the project and provided recommendations of which funding sources to be pursued as part of the project. **Cost:** \$1.5 million (fee) **Specific Role:** Project Manager/Permitting

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

.12. NAME <b>Troy Walker, MIE</b> <b>Associate Vice President</b>	.13. ROLE IN THIS CONTRACT <b>QA/QC; Technical Advisor</b>	.14. YEARS EXPERIENCE	
		a. TOTAL <b>30</b>	b. WITH CURRENT FIRM <b>11</b>

.15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Tempe, Arizona</b>	<b>Hazen</b>
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.16. EDUCATION (DEGREE AND SPECIALIZATION) BE, Chemical Engineering	.17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) MIE (Australia)
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.18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Walker serves as the Membrane Technology Leader and the Water Reuse Practice Leader for Hazen. He has been involved in the planning, piloting, design, startup, and operations of a number of advanced water reuse projects for both potable and non-potable systems. This has included the first ever combination of microfiltration and reverse osmosis for industrial reuse, through startup on one of Singapore's new water facilities, operations of potable reuse systems in Australia, planning of direct potable reuse in South Africa, and design of potable reuse systems in the United States. **Professional Organizations:** American Water Works Association - Membrane Process Committee, Membrane Systems Subcommittee; American Membrane Technology Association; WaterReuse Association.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Seminole Tribe of Florida (STOF) Hollywood Reservation Water Treatment Plant Improvements, Hollywood, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Mr. Walker provided technical review of RO and associated equipment design. The project includes pretreatment grit removal and screening facilities, odor control, aeration basins, secondary clarifiers, digesters, effluent pump station, chemical storage and feed facilities, aeration blower facilities, RAS and WAS facilities, an on-site lift station, deep injection well heads and monitoring well facilities. The project also includes an electrical facility and an Administration Building designed as a hurricane shelter. **Cost:** \$670,000 (fee); \$1.3 million (construction). **Specific Role:** Technical Reviewer.

b. (1) TITLE AND LOCATION (City and State) <b>Prospect Lake Clean Water Center, City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Hazen was selected to provide Owner's Representative Services for design and construction of the proposed 50-mgd (finished water capacity) WTP; the City's existing Fiveash WTP was constructed in the 1950s and is at the end of its useful life. The new plant is designated as the Prospect Lake Clean Water Center. Mr. Walker reviewed the approach to pilot testing for PFAS and provided input to the team. Additionally, he participated in meetings with the process mechanical subcontractor to confirm the finished water quality goals and potential revisions based on the raw water quality. **Cost:** \$4.7 million (est. fee); \$700 million (est. construction). **Specific Role:** Technical Advisor.

c. (1) TITLE AND LOCATION (City and State) <b>Pinellas County Treatment Plant Membrane Troubleshooting, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Mr. Walker provided operational assistance for the County's microfiltration and reverse osmosis membrane systems at the Waste-to-Energy Industrial Water Treatment Plant. This has involved reviews of performance data from the County's membrane processes and review of the implementation of new membrane cleaning protocols. This has also included installation of chloramine dosing to combat biological fouling. **Cost:** \$425,000 (fee, Evaluation and Operational Assistance), \$311,000 (fee, Capital Improvements for RO Feed Piping and RO Transfer Pumps), \$610,000 (fee). **Specific Role:** Operational Assistance.

d. (1) TITLE AND LOCATION (City and State) <b>Tampa Bay Water Hazard Analysis and Critical Control Point Evaluation for Surface Water Supplies, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
The overall goals of the project were to develop and apply a systematic approach for evaluating monitors and treatment barriers for existing regional surface water supplies, and to support the development of a targeted monitoring program that focuses on prioritized risks. Using the Hazard Analysis Critical Control Point (HACCP) methodology, a process was developed to address variable source water and watershed characteristics, and to enhance connections between source water assessment/protection efforts, operations and performance at the Regional Surface WTP. This effort creates the opportunity for Tampa Bay Water to implement a monitoring program that is focused on prioritized risks and the ongoing maintenance of critical barriers. **Cost:** \$150,000 (fee). **Specific Role:** Technical Advisor.

e. (1) TITLE AND LOCATION (City and State) <b>Hillsborough County Advanced Water Treatment Demonstration Program, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
The project evaluated the feasibility and implications of producing potable quality water using reclaimed water from the County's advanced water reclamation facilities. Mr. Walker led the development of water quality risk management approaches using the HACCP methodology and supported the selection of a preferred technology approach. Ultimately, the project team recommended a membrane-based treatment train for the County's Demonstration Facility, primarily due to the need to reduce total dissolved solids concentrations. The recommendation also included several design decisions that enable future evaluations of innovation and optimization. **Cost:** \$73,600 (fee). **Specific Role:** Risk Assessment Expert.

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jorge Calabria, PhD, PE, ENV SP Engineer</b>	13. ROLE IN THIS CONTRACT <b>Master Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>9</b>	b. WITH CURRENT FIRM <b>3</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Engineering MS, Environmental Engineering BS, Civil and Environmental Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil and Environmental Envision Sustainability Professional (ENV SP)	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Dr. Calabria has over nine years of experience in wastewater treatment, initially as an academic researcher focused on sustainable wastewater treatment and later in the private sector. Sustainability assessment skills include life cycle environmental impact analysis, life cycle cost analysis, and using the ENVISION™ framework. Dr. Calabria also possesses experience of wastewater process modelling Software (BioWin), 2D and 3D design (AutoCAD), LCA software (SimaPro and OpenLCA), as well as wastewater treatment methods demonstrated by publication of his research papers in Environmental Engineering Science, Life Sciences in Space Research, and Water Science and Technology. **Professional Organizations:** Florida Water Environment Association; American Water Works Association

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Wastewater Collection System Program Management Project City of Clearwater, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Dr. Calabria oversees planning, contractor coordination and implementation of over \$150 million of capital improvement and asset management projects as well as contractor repair and rehabilitation work of the City of Clearwater's Wastewater Collection System in an effort to reduce the City's operating costs by addressing system defects contributing to infiltration and intrusion. <b>Cost:</b> \$18.6 million (ongoing) <b>Specific Role:</b> Deputy Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>City of Neptune Beach WRF Process Evaluation and Optimization City of Neptune Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The City of Neptune Beach Wastewater Treatment Facility exceeded the nitrogen discharge limits and hired Hazen to coordinate emergency intervention efforts to get the facility back on track to regulatory compliance. Hazen assessed facility operating data and conditions and determined that the previous plant retrofits that converted the facility to an Integrated Fixed-Film Activated Sludge Process have reached their respective end-of-life and that removal of the antiquated media, combined with upgrades to the existing aeration system, were warranted in the short-term to regain compliance with effluent nitrogen and phosphorus load limits. This project also included a second phase that assessed the performance of the secondary clarifiers in their current conditions and under various scenarios resulting from the alternative treatment approaches proposed. Dr. Calabria provided process modelling support and facilitated coordination between vendors and plant staff to acquire cost proposals and construction coordination. <b>Cost:</b> \$32,500 <b>Specific Role:</b> Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cypress Manor Wastewater Treatment Plant Improvements Pasco County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project provided design, installation, and start-up services of a new batch plant to replace the existing facility that has reached its end of life and to improve the operating efficiency of the Cypress Manor Treatment Facility. Another goal of the project was to reduce capital costs and mitigate construction logistics. Dr. Calabria provided process modelling services as well as system startup support services for the project. <b>Cost:</b> \$199,591 <b>Specific Role:</b> Process Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Southwest WRF Facility Plan City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) NA
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The City of St. Petersburg selected Hazen to develop a Facility Plan for the Southwest Water Reclamation Facility (SWWRF). The SWWRF produces reclaimed water that feeds into the city's Reclaimed Water System used throughout the City for irrigation applications. This project supports the City in its role as a key member of the Tampa Bay Estuary Program's Nitrogen Management Consortium to mitigate nutrient loading into the bay. Dr. Calabria serves in a key role in the development of a calibrated model of the SWWRF treatment process, and development of treatment process alternatives that can be implemented at the SWWRF to be positioned to meet potential future regulatory performance and discharge constraints. <b>Cost:</b> \$1.27 million <b>Specific Role:</b> Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Lift Station 87, Envision Sustainability Assessment City of St. Petersburg, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen led the Design-build team through the Envision verification process using Pathway A: Design + Post-Construction Verification. Hazen coordinated the collection of documentation to support the achievement of Envision framework credits that ultimately are counted towards a level of achievement under the framework and to ensure the commitments made during project planning and design were carried through construction. <b>Cost:</b> \$65,227 <b>Specific Role:</b> Assistant Engineer and ENV SP	<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 <b>Saheb Mansour-Rezaei, PhD, PE Associate</b>	13. ROLE IN THIS CONTRACT <b>Hydraulic Modeling</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12</b>	b. WITH CURRENT FIRM <b>1</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Water Resources Engineering MS, Water Resources Engineering BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Dr. Mansour-Rezaei's area of expertise is in hydraulic and water quality analysis. He has 11 years of consulting experience performing planning and design associated with water distribution systems, wastewater collection systems, and reclaimed water systems. He has published several technical papers, including three journal papers in Journal AWWA. Dr. Mansour-Rezaei currently serves on the National AWWA Engineering Modeling Applications Committee, WEF Hydraulic Modeling TPG, and I/I Program Management TPG. **Professional Organizations:** American Water Works Association; Water Environment Federation

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>Resilient Wastewater Master Plan, City of Haines City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>a.</b> Dr. Mansour-Razaei helped develop the City's wastewater collection and transmission system model using SewerGEMS® software. He reviewed geospatial database, drawings, maps, and other pertinent information to create a flow schematic of the system showing connectivity of the infrastructures and flow directions throughout the system, and analyzed DMRs, hourly LS, and WWTF SCADA data to select average dry weather and peak flow days to replicate in the model. Dr. Mansour-Razaei estimated wastewater flow components, including BI, BSF, and RDII, for each LS sewer basin. He performed I/I desktop analysis based on LS run times, existing Nexard rainfall data, and WTF daily flow data, and identified the sewer basins that contribute to I/I. Dr. Mansour-Razaei identified key LSs to perform drawdown testing to confirm the pump performance curve used in the model and performed wastewater flow projections for four planning years to 2050. He also developed wastewater flow projections using PD information, fill-in growth based on SWFMD parcel-level projections, and unit flow for customers. <b>Cost:</b> \$570,000 <b>Specific Role:</b> Lead Project Engineer		
(1) TITLE AND LOCATION (City and State) <b>Utilities Master Plan Update, City of Casselberry, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>b.</b> Dr. Mansour-Razaei updated the City's wastewater portion of the master plan. He developed and calibrated the wastewater hydraulic model of the City's WWCTS. He developed and projected flows through year 2042 for the City's WWCTS, which included PD and septic-to-sewer areas. He also developed WWCTS and WRF improvements to serve future growth through 2042, which included sizing the major collection and transmission mains, identifying needed modifications to the existing systems and WRF, and providing an implementation plan that included planning-level OPPCs for CIPs. <b>Cost:</b> \$350,000 <b>Specific Role:</b> Lead Project Engineer		
(1) TITLE AND LOCATION (City and State) <b>Wastewater Master Plan, City of Eustis, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>c.</b> Dr. Mansour-Razaei created a dynamic model of the City's WWCTS using SewerGEMS®, developed pipe network and boundary conditions, and assigned rim and/or invert elevations to model manholes, gravity mains, force mains, and pressure junctions. He estimated flow components, including BSF, BI, and RDII for each WWCTS by analysis of influent flows data, water consumption records, and previous I/I studies. Dr. Mansour-Razaei calibrated the model-simulated influent flows and LS runtimes to observed values for dry and wet weather conditions for each of the systems, and he projected future flows, including existing flow, fill-in flow, and PD flow for each WWCT. He performed future flow projections using future water consumption and system characteristics information obtained from wastewater model development and calibration process, and design storm analysis to determine the intensity of rainfall to be applied to the hydraulic model for CIP. He identified system improvements necessary to alleviate the existing system deficiencies, and proposed improvements to accommodate future flows, summarized CIPs required to meet future needs, and established planning-level OPPCs, and proposed implementation years for the CIPs. <b>Cost:</b> \$150,000 <b>Specific Role:</b> Lead Project Engineer		
(1) TITLE AND LOCATION (City and State) <b>Northwest Regional Utility Service Area (NWRUSA) Wastewater Dynamic Hydraulic Model Update/Verification, Polk County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>d.</b> Dr. Mansour-Rezaei worked to update the NWRUSA collection and transmission system model, converted the steady-state model to EPS in SewerGEMS®, and developed and distributed dry and wet weather flows through the model LSs and manholes. Flows, including BSF, BI, and RDII, were estimated by analysis of the influent flows record, water consumption data, and rainfall data. He also performed dry and wet weather model calibration to accurately predict conditions observed in the system, and adjusted model parameters and flow distributions to match simulated flows at headwork and LSs run-time-to-observed values. <b>Cost:</b> \$120,000 <b>Specific Role:</b> Lead Project Engineer		
(1) TITLE AND LOCATION (City and State) <b>University of Central Florida Wastewater Hydraulic Model and Capacity Evaluation, Oviedo, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>e.</b> Dr. Mansour-Razaei updated GIS data and created a geometric network containing the gravity mains, manholes, LSs, and force mains for UCF. He created a hydraulic model of the gravity sewer collection and force main transmission systems using the InfoSWMM® Executive Suite v14.7 platform by Innovyze™. He created EPS modeling scenarios and assessed the system performance and capacity of the collection and transmission under peak flow conditions. The peak flow was estimated using monthly flow data recorded at the metered connections and hourly potable water consumption data recorded by on-campus building meters in absence of the hourly flow data. <b>Cost:</b> \$75,000 <b>Specific Role:</b> Lead Project Engineer		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Ethan Hypes, PE Senior Principal Engineer</b>	13. ROLE IN THIS CONTRACT <b>Hydraulic Modeling</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>9</b>	b. WITH CURRENT FIRM <b>9</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Orlando, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION)  
BS, Environmental Engineering,  
North Carolina State University, 2016

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
PE / FL – Civil Engineering

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

Mr. Hypes is a member of Hazen’s Conveyance Group. His wastewater collection experience includes planning, hydraulic modeling, program management and design. As a member of Hazen’s Hydraulic Modeling Group, Mr. Hypes possesses extensive hydraulic modeling experience with numerous model calibration and validation projects, as well as modeling alternatives analysis for planning projects. **Professional Organizations:** American Water Works Association; Water Environment Federation

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>MDWASD Integrated Master Plan – Hydraulic Evaluation of Pump Stations 1, 2, and 3 Service Area, Miami-Dade County, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Mr. Hypes serves as one of the lead hydraulic modelers working to develop a roadmap that will define the main activities/focus of the IMP in alignment with the vision/needs of the different operational sections within MDWASD. Additionally, this effort involves InfoWorks ICM hydraulic evaluation of the wastewater collection and transmission system in the service area of Pump Station 1 and the recommendation of improvements in the system required to adapt the infrastructure to future flows and stresses imposed by projected development in the area. <b>Status:</b> Expected completion by March of 2025. <b>Cost:</b> \$2.3 million (fee). <b>Specific Role:</b> Lead Hydraulic Modeler		
<b>Capacity, Management, Operations and Maintenance Program Sarasota County, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Mr. Hypes served as one of the lead hydraulic modelers working to determine cost-effective solutions to address overflow issues (as a component of the larger CMOM program). The County’s wastewater collection system consists of approximately 1,500 miles of gravity sewers and force mains and 700+ lift stations. The project includes the development, calibration, and capacity assessment of 10 separate hydraulic models representing the County’s expansive system and requires calibration of complex manifolded force main hydraulics and inter-basin flow transfers. <b>Status:</b> Expected completion by January of 2026. <b>Cost:</b> \$2.8 million. <b>Specific Role:</b> Lead Hydraulic Modeler		
<b>Hydraulic Model Calibration and Capacity Assessment for Wastewater Collections System Master Plan, Gainesville Regional Utilities (GRU), Gainesville, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Mr. Hypes led this effort to develop and calibrate a wastewater collection model for GRU’s system which includes 680 miles of gravity main, 180 miles of force main, 16,300 manholes and 177 lift stations. The calibration involves analysis of more than 60 gravity flow monitors, lift station runtime, pressure, and flow data. This dynamic hydraulic model will be leveraged as a tool to conduct current and future system capacity assessment and ultimately support the development of a prioritized master plan for the collection system. <b>Cost:</b> \$475,000 (fee) <b>Specific Role:</b> Project Manager		
<b>Model and Master Plan, Jefferson County Environmental Services Department (JCESD), Jefferson County, AL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. JCESD is committed to maintaining environmental quality by reducing sanitary sewer overflows (SSOs) resulting from operational limitations and recurring wet weather events. In an effort to control these discharges, the JCESD authorized Hazen and Sawyer with the development of a comprehensive InfoWorks ICM hydraulic model to evaluate the existing collection system under various loading and operational conditions, identify capacity limitations, improve system operations, develop a CIP, and support a CAP. Mr. Hypes provides modeling support for this project, including model calibration, capacity assessment, and development of remedial measures plan projects. <b>Status:</b> Continuous efforts starting in 2014, expected to extend past 2026. <b>Cost:</b> \$6 million. <b>Specific Role:</b> Hydraulic Modeler		
<b>Wastewater Collection System Modeling Support City of Miami Beach, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Hypes is the Lead Hydraulic Modeler providing as-needed support to the City related to developer capacity request and improvement planning/permitting. This includes operating the City’s InfoWorks ICM collection model to analyze capacity under various flow conditions and improvement scenarios. Numerous hydraulic modeling reports have been generated under this effort to support the City with fast-paced ongoing developments and projects. <b>Status:</b> Expected completion by January of 2026. <b>Cost:</b> \$830,000 (fee). <b>Specific Role:</b> Lead Hydraulic Modeler		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>David Barnett, PE, LEED AP Senior Associate</b>		13. ROLE IN THIS CONTRACT <b>Civil</b>		14. YEARS EXPERIENCE	
				a. TOTAL <b>32</b>	b. WITH CURRENT FIRM <b>4</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Hollywood, Florida</b>					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering BS, Architectural Engineering			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering LEED Accredited Professional (LEED AP) FDEP Certified Storm Water Management Inspector		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Barnett has over 32 years of experience serving municipal and private-sector clients. He provides expertise in project management, including leading the design, permitting, and construction of water, wastewater, stormwater, sewer, and roadway projects. <b>Professional Organization:</b> American Water Works Association, American Society of Civil Engineers, Florida Engineering Society, Florida Engineering Leadership Institute, Class of 2007.					



**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>Edgewood Neighborhood Stormwater Improvements, City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This project involves installation of stormwater catch basins, manholes, conflict structures, piping and outfalls, inline check valves, exfiltration trenches and gravity drainage wells as well as replacement of select water mains and force mains within the project area. Professional services include stormwater analysis, design, permitting, coordination with utility providers, preparing quantity calculations, and engineers estimates of probable costs. Construction services will include observation, responding to RFIs, review of shop drawings, as-builts and testing for the site. <b>Status:</b> To be completed in 2024. <b>Cost:</b> \$14.5 million (construction). <b>Specific Role:</b> Senior Project Engineer.		
b.	(1) TITLE AND LOCATION (City and State) <b>Fort Pierce Utility Authority Mainland Water Reclamation Facility, City of Fort Pierce, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Barnett serves as Senior Project Manager for the design-build and construction of a 25-acre water reclamation facility consisting of multiple processes on the site including an Administration and Maintenance Building, pretreatment (influent screening and grit removal), secondary treatment (SBR process), Blower Building with common wall electrical and generator rooms, tertiary filters, chlorine contact chamber, chemical storage facility (bulk sodium hypochlorite), aerated sludge holding, biosolids processing, HLD reuse storage tank (for cooling tower blowdown and onsite plant service water), and industrial and municipal deep wells with pump station. Work includes design, permitting and construction services of water, sewer, paving, grading and drainage improvements in support of the project. <b>Cost:</b> \$6.4 million (fee), \$133 million (construction). <b>Specific Role:</b> Senior Project Manager and Engineer-of-Record.		
c.	(1) TITLE AND LOCATION (City and State) <b>Lighthouse Park Force Main Replacement under US 1, Town of Jupiter, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project involved the preparation of construction documents and associated permits for the replacement of over 350 LF of existing 2-inch PVC force main piping within the park and right of way of US 1. The work involved a Horizontal Directional Drill under US 1 adjacent Lighthouse Park. Services provided included surveying, civil engineering design, permitting, coordination with utility providers for adjustments and or relocations, preparing quantity calculations, engineers' estimate of probable costs, and bidding assistance. <b>Cost:</b> \$30,300 (fee). <b>Specific Role:</b> Senior Project Manager and Engineer-of-Record.		
d.	(1) TITLE AND LOCATION (City and State) <b>West Melbourne New Water Treatment Plant, City of West Melbourne, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Barnett assisted with design and construction of a stormwater collection and conveyance system to support a 9-acre WTP consisting of approximately 0.68 acres of open and closed roof spaces, 0.67 acres of roadways, parking and sidewalks, and 1.85 acres of green space/water management areas to support multiple processes on the site. The site is proposed to include an area for a future administration building with associated parking. Services include surveying, geotechnical engineering, civil engineering design, permitting, coordination with utility providers for adjustments and or relocations, preparing quantity calculations, engineers estimates of probable costs, and bidding assistance. Construction administration and observation will be provided during construction. <b>Cost:</b> \$1.9 million (est. fee for WTP design). <b>Specific Role:</b> Senior Project Engineer.		
e.	(1) TITLE AND LOCATION (City and State) <b>Atlantic Sapphire, LLC, USA Salmon Farm, Unincorporated Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm This Construction Manager-at-Risk (CMAR) project involves design and construction of over 85 acres of buildings, 17 acres of roadways and parking facilities and 60 acres of green space to support multiple functions on the site including Administration, Employee Health and Wellness, Process, Feed, SMOLT and Research Buildings, Warehouses and Work Shops, Salt and Fresh Water Treatment Facilities, Oxygen and Chiller Plant, a free-standing Generator Building and FPL Substation. The design will include stormwater catch basins, inlets, piping, manholes, exfiltration trenches and gravity drainage wells as well as water mains and force mains within the project area. The professional services include stormwater analysis, civil engineering design, preparing quantity calculations, and engineers estimates of probable costs. Construction activities will include observing utility tie-ins, pavement, sidewalk and roadway construction, monitoring of erosion and sedimentation controls, the removal and disposal of unsuitable soils, startup and testing of the new facilities, review of operation and maintenance manuals, record documents, as-builts, testing and other miscellaneous responsibilities required for completion of the work. <b>Status:</b> Expected completion year is 2028. <b>Cost:</b> \$13 million (design and CMS fee, est.); \$350 million (construction, est.). <b>Specific Role:</b> Senior Project Engineer.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Nestor Sotelo, PE, BCEE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Civil</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>26</b>	b. WITH CURRENT FIRM <b>8</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Mr. Sotelo has 25 years of experience providing a wide range of civil engineering services. He has been involved in providing water resource services for large- and small-scale water, wastewater, and stormwater management projects throughout the Tampa Bay area. **Professional Organizations:** Water Environment Federation; Florida Engineering Society

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
<b>SCBWRP 42-inch Emergency Repair, Pinellas County, FL</b>	N/A	2014
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm a. Mr. Sotelo completed the immediate emergency repair of a 42-inch raw sewer gravity line that ran between grit facility and South Train biological treatment train. Mr. Sotelo had to contract and direct contractors to install a 30-mgd emergency bypass system, develop a repair plan to improve 700 LF of 42-inch DIP gravity main. Efforts performed under stringent time constraints given high-bypass costs and interruption to plant operation. <b>Cost:</b> \$2.1 million (construction) <b>Specific Role:</b> Engineer-of-Record		
<b>Lakewood Ranch Phase I, Sarasota County, FL</b>	2006	2013
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. Mr. Sotelo completed the hydraulic analysis, permitting and design of 6,859 LF of 12-inch force main, 4,414 LF of 24-inch force main, and 322 LF of 14-inch directional drilled HDPE pipe. The project included design of a 2.15-mgd triplex lift station with soft starts and auxiliary power. Mr. Sotelo's responsibilities included civil site stormwater improvements. <b>Cost:</b> \$80,000 (design) \$1.4 million (construction) <b>Specific Role:</b> Engineer-of-Record		
<b>Rouse Road Water Main and Force Main Utility Relocation, Orange County, FL</b>	2015	2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. Mr. Sotelo provided a route feasibility study, permitting, and design service for relocation of water and wastewater utilities along Rouse Road corridor between University Blvd. and Lake Underhill Rd. The roadway was being raised and widened, which required a major overhaul of the existing utilities that were in conflict with the proposed stormwater water system. His responsibilities included coordination with the transportation engineer and roadway plans/specifications, design of 20,000 LF of 24-inch water main, 9,100 LF of 20-inch force main, and 2,000 LF of 8-, 12-, and 30-inch sewer mains. This project included 38 tie-ins to the existing distribution system without interruption of service, and two trenchless pipeline installations through FDOT road. <b>Cost:</b> \$16 million (construction) <b>Specific Role:</b> Route Feasibility Study/Design Service Engineer-of-Record		
<b>University I-75 Force Main Phase II, Sarasota County, FL</b>	2006	2012
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. This project is part of Sarasota County master plan to consolidate and redirect flows to a regional facility. Mr. Sotelo completed the hydraulic analysis and design of a 12.3-mgd Master Triple Lift Station. Pumps controlled by VFDs, and facility included a control building, flow meter, and auxiliary power. Responsibilities included mechanical and civil construction drawings, preparation and submittal of pertinent permits, project management and value engineering. Project included installation of 24- and 30-inch force main, but not inclusive of construction cost provided. <b>Cost:</b> \$1.9 million (construction) <b>Specific Role:</b> Engineer-of-Record		
<b>Oakhurst Road Improvement Project, Pinellas County, FL</b>	1998	2002
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. Mr. Sotelo monitored the installation of 52,323 LF of 4- to 36-inch reclaimed water main, potable water, and sanitary sewer pipelines, in addition to stormwater drainage structures, and associated roadway construction. Responsibilities included: coordination of all construction meetings; processing and reviewing of contract submittals; processing and clarifying contractors requests for additional information; processing and maintaining contract correspondence log; logging and reviewing inspector daily reports; logging and reviewing all material testing reports; reviewing and providing contract interpretation; reviewing MOT and informing contractor of any changes; administering testing procedure and verifying utility testing; reviewing and analyzing time extension request; reviewing and verifying contractor progress payment applications; reviewing contractor proposals; and reviewing and negotiate change orders. <b>Cost:</b> \$18 million <b>Specific Role:</b> Resident Construction Engineer		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jean Paul Silva, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Structural</b>	14. YEARS EXPERIENCE a. TOTAL <b>30</b>	
		b. WITH CURRENT FIRM <b>23</b>	
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Boca Raton, Florida</b>			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS, Civil Engineering BS, Structural Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Civil Engineering	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Silva serves as Hazen’s Regional Manager for structural engineering in Florida, in charge of coordinating all structural assignments in the region. He has over 30 years of experience in structural design and construction administration of water and wastewater facilities, stormwater collection, storage tanks, and pump stations. Mr. Silva’s experience includes design of new facilities, structural condition assessments, design of rehabilitation/upgrade of existing facilities, and structural/special inspections. <b>Professional Organizations:</b> American Water Works Association; American Institute of Steel Construction; Florida Engineering Society; American Concrete Institute; American Society of Civil Engineers.			



**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<b>Town of Jupiter 14.5-mgd Nanofiltration Plant Design, Jupiter, FL</b>	PROFESSIONAL SERVICES 2007	CONSTRUCTION <i>(if applicable)</i> 2010
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 Mr. Silva played a major role in the structural design and coordination of architectural components of the \$37 million nanofiltration plant. Design consisted of a two-level reinforced concrete/masonry building to house cartridge filtration and membrane feed systems, nanofiltration skids, chemical storage, degasifiers and odor control systems, clearwell, and transfer pumps. He provided structural design services. <b>Cost:</b> \$37 million (construction); \$2 million (fee). <b>Specific Role:</b> Structural Engineer.		
<b>General Wastewater and Water Engineering Services Broward County, FL</b>	PROFESSIONAL SERVICES 2023	CONSTRUCTION <i>(if applicable)</i> 2023
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 Hazen has provided general professional consulting services to Broward County Water and Wastewater Services under the 2002 and 2008 General Consulting agreements in the following areas: water and wastewater treatment plants; water collection and wastewater distribution; hydraulic modeling; pumping stations; water wells and effluent disposal wells; water reclamation; ocean science and marine engineering; financial studies; and regulatory assistance. Hazen completed over 100 projects under the two agreements. <b>Cost:</b> \$17.4 million. <b>Specific Role:</b> Structural Engineer.		
<b>City of Fort Lauderdale Dixie Wellfield Improvements, Fort Lauderdale, FL</b>	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(if applicable)</i> 2008
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 involved a reverse osmosis water treatment system. The City replaced their existing lime softening facilities at the Peele-Dixie WTP with a 12-mgd finished water capacity nanofiltration water treatment plant. The City retained the services of Hazen to evaluate, permit, and design wellfield improvements for the Dixie Wellfield. <b>Cost:</b> \$9.2 million (construction), \$785,031 (design fee), \$720,446 (construction management fee). <b>Specific Role:</b> Structural Engineer.		
<b>Regional Wastewater Treatment Plant Diffused Aeration, City of Plantation, FL</b>	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(if applicable)</i> 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 This project included an upgrade to the 20-mgd RWWTP for conversion of existing aeration basins from mechanical surface aeration to fine bubble diffused aeration, related air piping and blower installation, construction of a new laboratory/office building, new site lift station, and SCADA system upgrades. <b>Cost:</b> \$1.5 million (fee). <b>Specific Role:</b> Structural Engineer; Specialty Inspections.		
<b>Seminole Tribe of Florida (STOF) Hollywood Reservation Membrane WTP, Hollywood, FL</b>	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(if applicable)</i> 2016
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 Mr. Silva provided quality control for the design of miscellaneous improvements for a 3-mgd membrane softening facility. The project included the replacement of the sulfuric acid storage, feed and injection facilities, mechanical and instrumentation improvements to two raw water wells and the installation of a new engine-driven high service pump and associated fuel storage and feed system. In addition, Mr. Silva served as Structural Engineer of Record for the Hollywood reservation’s electrical reliability upgrades in addition to reviewing shop drawings. <b>Cost:</b> \$670,000 (fee); \$1.3 million (construction). <b>Specific Role:</b> Structural Engineer of Record.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Adarsh B. Shah, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Structural</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20</b>	b. WITH CURRENT FIRM <b>&lt;1</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering (Structural) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Shah has more than 20 years of experience in the design of a variety of water and wastewater treatment facilities. His experience includes the structural design of concrete, steel and masonry structures with different types of foundations, along with the inspection and rehabilitation of existing structures. Mr. Shah applies current federal, state, and local design standards to develop safe, efficient, and economical project designs. His design work involves new and existing structures utilizing reinforced concrete, masonry, structural steel, and wood. Typical project duties include preparation of calculations, contract drawings, specifications, and cost estimates. Mr. Shah utilizes Microsoft Office products, Staad, MathCAD, AutoCAD, and Revit and has experience with construction administration submittal reviews, RFI responses, and changed condition evaluations. He is also experienced in performing constructability reviews, field inspections, recommendations, and investigations of construction issues. He has coordinated all stages of design and construction with project stakeholders.  
**Professional Organizations:** American Society of Civil Engineers; American Concrete Institute

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION <i>(City and State)</i> <b>South Florida Water Management District (SFWMD) A-2 Stormwater Treatment Area, West Palm Beach, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Central Everglades Planning Project (CEPP) is part of the Comprehensive Everglades Restoration Plan (CERP) and cost-shared between the U.S. Army Corps of Engineers (USACE) and the SFWMD. This project consists of three pump stations, two spillway structures, and numerous flow control structures (cast in place culverts). <b>Cost:</b> \$175 million <b>Specific Role:</b> Structural Engineer-of-Record	<input type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Solid Waste Authority of Palm Beach County North &amp; West Central County Transfer Station Rehabilitation, Palm Beach County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Shah worked on the repair and rehabilitation of steel-clad hoppers and pre-engineered metal building column anchor bolt. He also assisted in the repair and resurfacing of the tunnel floor. <b>Cost:</b> \$17 million <b>Specific Role:</b> Structural Engineer-of-Record	<input type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Water and Sewer District (WASD) CD Wastewater Treatment Plant, Electrical Distribution Building, Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Shah assisted in the design of a new electrical distribution building at the Virginia Key wastewater treatment plant operated by WASD. <b>Cost:</b> \$150 million <b>Specific Role:</b> Structural Engineer-of-Record	<input type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Deep Injection Well Pump Station and Generator Building, City of Hollywood, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Shah assisted with the design of new pump station and generator building in Hollywood. <b>Cost:</b> \$77 million <b>Specific Role:</b> Structural Engineer-of-Record	<input type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Marshall Street Water Reclamation Facility, City of Clearwater, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Shah served as Structural Engineer-of-Record for this project, which involved concrete rehabilitation (for various structural elements) and replacement of gates. <b>Cost:</b> \$300,000 <b>Specific Role:</b> Structural Engineer-of-Record	<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 <b>David Witte, PE, CEM Associate</b>	13. ROLE IN THIS CONTRACT <b>Mechanical/HVAC/Plumbing</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>17</b>	b. WITH CURRENT FIRM <b>8</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, New York, New York**



16. EDUCATION (DEGREE AND SPECIALIZATION) ME, Civil Engineering BS, Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL, MA, NH, NM, NY, UT – Mechanical Engineering Certified Energy Manager (CEM)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Witte's experience includes mechanical system design and analysis for water/wastewater facilities, as well as serving as owner's representative for capital project design and construction at a U.S. Navy training facility. His design experience includes schematic design and planning for HVAC and plumbing systems, life-cycle cost analyses, calculating heating and cooling loads for spaces, pressure drop calculations for air and hydronic systems, sizing and selecting equipment, developing bid documents, and construction cost estimating. He has provided design services during construction for HVAC systems, which include review of shop drawing submittals, RFI responses, and writing change orders. **Professional Organizations:** American Society of Mechanical Engineers; Association of Energy Engineers.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Toho Water Authority (TWA) Sunbridge New Nanofiltration Water Treatment Plant Improvements and Expansion Project, Kissimmee, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Witte oversaw staff in development of HVAC and Plumbing construction documents for a new nanofiltration facility. The scope includes ventilation and plumbing for nanofiltration room, ventilation and air conditioning for control room, and air conditioning for electrical room. Scope includes HVAC and plumbing for an administrative building, ventilation for water treatment process areas, and air conditioning for process building electrical room. <b>Cost:</b> \$2.9 million (fee, est.); \$46.6 million (construction, est.). <b>Specific Role:</b> Engineer-of-Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>City of Sarasota Water Treatment Plant Water Quality Improvements - Phase 2A, Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Witte managed the development of plumbing and HVAC construction documents for minor interior renovation of operations building, including updated restrooms and locker rooms. <b>Cost:</b> \$145,000 (fee, est.); \$2.5 million (construction, est.). <b>Specific Role:</b> Project Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>Springfield Water and Sewer Commission West Parish Water Treatment Facility, Springfield, MA</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Witte led the design effort for HVAC, plumbing, and fire protection systems at a 65-mgd treatment plant. He developed a life-cycle cost analysis and technical memo for evaluation of implementing heat pumps for facility heating, as an alternative to propane boilers. His study included greenhouse gas emissions estimate, as well as incentives available for sustainable design features. The ultimate design includes VRF heat pumps for heating and cooling for administrative spaces, air-source heat pumps for heating process areas, and a free-cooling hydronic system that utilizes water from the treatment process as a heat sink for process cooling loads. <b>Status:</b> Design was completed in January of 2024. We are currently in the bid phase and award should occur this summer. We will have a DSDC contract for when construction starts after award. Construction is estimated to end by September of 2028. <b>Cost:</b> \$24 million (fee, est.); \$265 million (construction, est.). <b>Specific Role:</b> Lead Project Design Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>Village of Ossining Indian Brook Water Treatment Plant, Ossining, NY</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Witte oversaw staff in development of plumbing construction documents for a new 5-mgd water filtration facility. Scope includes fire protection, cold water distribution system with backflow prevention, hot water distribution and recirculation system, safety shower systems for chemical storage areas, sanitary drainage and lift station systems, and roof drainage systems. <b>Status:</b> Design was completed in 2023. Construction is currently underway, and we do have a DSDC contract to provide engineering services during construction. <b>Cost:</b> \$2.7 million (fee, est.). <b>Specific Role:</b> Engineer-of-Record.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>City of Miami Beach Pump Station 28 and Force Main Improvements, Miami Beach, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Witte oversaw staff in development of HVAC and plumbing construction documents for renovation of an existing wastewater pump station and a new generator building. Scope includes ventilation and cooling for wastewater pump station drywell per NFPA 820, ventilation and cooling for generator room, plumbing for a new restroom, and air conditioning for electrical room. <b>Status:</b> Construction has not begun, once the permit is issued, we will then go out to bid and award later in 2024. The estimated completion date is in December of 2026. <b>Cost:</b> \$817,000 (fee), we are currently seeking an amendment for another \$255 000; \$1.1 million (total fee, est.); \$32 million (construction, est.). <b>Specific Role:</b> Engineer of Record.	<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 <b>Linda Diebolt Associate</b>	13. ROLE IN THIS CONTRACT <b>Environmental</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>37</b>	b. WITH CURRENT FIRM <b>14</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Raleigh, North Carolina</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Marine Biology	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> N/A
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Ms. Diebolt is an Environmental Scientist specializing in natural systems and resources including biological and environmental assessments. Ms. Diebolt has been performing Phase I Environmental Site Assessments for over 35 years and has performed over 50 Phase I Environmental Site Assessments in Florida. She has extensive experience in permitting, including working with project teams to ensure permitting requirements and design elements required by the permitting agencies are considered during project design and included in project drawings and specifications, where appropriate.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Dispersed Water Management Program, Okeechobee, Indian River, and St. Lucie Counties, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 a. Ms. Diebolt performed environmental and biological assessments, delineations of jurisdictional areas, and state and federal protected species surveys of three parcels totaling 16,000 acres of citrus grove being converted to water storage facilities. Project work required extensive coordination with numerous state and federal regulatory agencies, generation of environmental reports, and acquisition of Section 404 Standard Permits from the USACE, Environmental Resource Permits from the South Florida Water Management District, and a Section 408 permit from the USACE. **Cost:** \$2 million **Specific Role:** Environmental Scientist

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Main Installation, Town of Jupiter, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 b. The Town of Jupiter installed approximately 1,400 feet of raw water main that crossed the C-18 Canal and the SIRWCD outfall canal via horizontal directional drill. Ms. Diebolt coordinated with regulatory agencies, including the U.S. Fish and Wildlife Service, due to the presence of habitat for protected species being present with the work site. She helped obtain an Environmental Resource Permit from the South Florida Water Management District, a Section 404 permit from the USACE, and Section 408 permit from the USACE. **Cost:** \$200,000 **Specific Role:** Environmental Scientist

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Phase I Environmental Site Assessments, Phase II Sampling Plan Generation, and Phase II Oversight, Town of Vero Beach, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 c. Ms. Diebolt generated Phase I Environmental Site Assessments for three parcels totaling 16,000 acres of agricultural land per ASTM standard for large properties. Phase I identified potential contamination issues associated with onsite above ground storage tanks and use of chemicals during farming operations. She provided oversight of Phase II soil sampling and analysis of analytical data, generated soil inversion plans, and provided guidance and oversight for contractors during soil inversion in project areas in which elevated levels of contaminants were found to be present. Additionally, she provided review and analysis of reports and agency documentation generated by contractors. **Cost:** \$50,000 **Specific Role:** Environmental Scientist

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Havelock Wastewater Treatment Plant, City of Havelock, NC</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 d. Ms. Diebolt performed field investigations, including wetland and stream delineations, and habitat assessments for threatened and endangered species for relocation of an existing wastewater outfall. She also provided and/or assisted in coordination with the North Carolina Division of Coastal Management, North Carolina Division of Water Quality, U.S. Army Corps of Engineers, and U.S. Coast Guard for this project. Coordination included development of the Coastal Area Management Act (CAMA) Consistency Determination request, preparation of the CAMA Major Permit application, preparation of the Clean Water Act Section 401 and 404 permit applications, and preparation of the Private Aid to Navigation permit application. **Cost:** \$750,000 **Specific Role:** Environmental Scientist

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Treatment Plant, Raw Water Intake, and 30 Miles of Raw Water Line, Caroline County, VA</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE  Check if project performed with current firm  
 e. Ms. Diebolt performed wetland and stream delineations, and protected species habitat and presence surveys for a proposed water treatment plant, raw water intake in the Rappahannock River, and 30 miles of raw water line. She coordinated with numerous federal and state agencies including the U.S. Army, U.S. Army Corps of Engineers, U.S. Coast Guard, Virginia Marine Resources Commission, and the Virginia Department of Environmental Quality. She also worked with subcontractors relative to archaeological surveys and ichthyoplankton surveys. **Cost:** \$1.5 million **Specific Role:** Environmental Scientist

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>John Cameron, PE Associate</b>	13. ROLE IN THIS CONTRACT <b>Electrical</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>17</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BEEE, Electrical Engineering	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Electrical Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS  
Mr. Cameron has over 16 years of experience in the power industry; designing/upgrading electrical systems for water/wastewater treatment plants, switch-gears, emergency backup power systems, and pump skids for remote operation. He also has over 10 years of experience as an industrial electrician and is an accomplished PLC and SCADA programmer. **Professional Organizations:** Institute of Electrical and Electronics Engineers (Florida West Coast Section); American Water Works Association.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren AWWTP Master Plan Improvements – Phase 1, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 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 Mr. Cameron is overseeing the implementation of the electrical design for the rehabilitation and upgrade of the 96-mgd Howard F. Curren Advanced Wastewater Treatment Plant (HFC AWWTP). Specific work includes working closely with the electrical contractor to ensure that the design meets the owner's expectations and to help resolve any electrical construction issues. <b>Cost:</b> \$5 million (design); \$254 million (construction) <b>Specific Role:</b> Electrical Engineer Engineer-of-Record.		
b. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Valrico Advanced Wastewater Treatment Facility (AWWTF) Biological Treatment Improvements, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 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 Mr. Cameron served as Electrical Design Engineer for the replacement/upgrade of aerators and associated electrical systems for existing AWWTF. The replacement/upgrade requires the replacement of electrical feeders and branch circuits to accommodate the increased power requirement at the plant. This includes upgrades to existing MCCs, replacement of existing VFDs, pumps and associated power, control, and instrumentation circuits supporting the existing four oxidation ditches. <b>Cost:</b> \$41,000 (design); \$7.7 million (construction est.). <b>Specific Role:</b> Electrical Design Engineer.		
c. (1) TITLE AND LOCATION <i>(City and State)</i> <b>NWRWRF Odor Control Improvements, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 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 Mr. Cameron is serving as Electrical Design Engineer for the replacement/upgrade of existing odor control and new biofilter electrical system. The project includes replacement of the existing direct online exhaust fan starting system with new VFD controlled exhaust fan system. The project also includes the upgrade of the existing odor controls panel to accommodate the new VFDs and associated controls. <b>Cost:</b> \$41,000 (design); \$3.5 million (construction est.). <b>Specific Role:</b> Electrical Design Engineer.		
d. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Sarasota WTP Water Quality Improvements Phase 2A, City of Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 08/2025	CONSTRUCTION (If applicable) 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 Mr. Cameron serves as Electrical Design Engineer for electrical design of the new sand filtration system, new corrosion inhibitor chemical feed system, new on-site ion exchange regeneration system, and replacement/upgrade of existing transfer pump station and reverse osmosis degasification system at the existing water treatment plant (WTP). The project includes the addition of a new power distribution system to support the increased power requirement of the new systems. <b>Cost:</b> \$62,000 (design); \$23 million (construction est.). <b>Specific Role:</b> Electrical Design Engineer.		
e. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Glendale WRF Chlorine Contact Chamber and Pump Station, City of Lakeland, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 06/2025	CONSTRUCTION (If applicable) 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 Mr. Cameron serves as Electrical Design Engineer for design of a new chlorine contact chamber electrical system at the Glendale WRF facility. The project includes a new electrical building, new pump station, new emergency backup system, including two 2.0-MG generators, and new paralleling switchgear. <b>Cost:</b> \$125,000 (design); \$33.8 million (construction est.). <b>Specific Role:</b> Electrical Design Engineer.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Keff Kurella, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Electrical</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>27</b>	b. WITH CURRENT FIRM <b>&gt;1</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, University of Florida, 1996, Chemical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Kurella is a Registered Professional Electrical Engineer with more than 27 years of experience in the design, specification, and construction of electrical, instrumentation and controls systems. Project experience includes municipal, industrial, retail, and commercial clients. Responsibilities include project management, front-end engineering, detailed design, cost estimation, preparation of construction documents and construction administration. Design experience includes power distribution (low and medium voltage), generation, lighting, control systems (PLC and distributed), hazardous area classification, fire alarm, lighting protection, grounding, voice/data communications and instrumentation. Other capabilities include performing power system analysis studies such as short circuit, protective device coordination, and arc flash hazards. **Professional Organizations:** International Society of Automation.

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>One Water Balm Road SPS Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Keff serves as Lead Electrical Engineer on a progressive design build of a super pump station. The station is designed with a flow capacity of 56 MGD. It can be expanded to 80.5 MGD to accommodate projected buildout flows. It features two self-cleaning wet wells constructed concurrently, each capable of managing half of the flow for enhanced operational flexibility. The pump station will utilize ten (10) pumps, each equipped with a variable frequency drive (VFD), with eight (8) designated for duty, two (2) standby, and space reserved for two (2) future pumps. <b>Cost:</b> \$45 million (estimate) <b>Specific Role:</b> Lead Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>One Water AWWTF Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Keff serves as Lead Electrical Engineer on a progressive design build of a green field wastewater treatment facility. Initial flow capacity of 30 MGD. Final flow capacity of 45 MGD. Facility includes preliminary treatment (flow monitoring, screening, grit removal), flow equalization, secondary treatment (biological treatment basins, clarifiers), tertiary treatment (disk filters), high level disinfection, effluent storage/pumping, reject storage/pumping, solids handling, medium voltage distribution, emergency generators, operations building and a maintenance building. <b>Cost:</b> \$500 million (estimate) <b>Specific Role:</b> Lead Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>Carlton EDR Water Treatment Facility Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Keff served as Electrical Engineer-of-Record for the power distribution and controls system design to upgrade an existing 12-mgd EDR groundwater facility. <b>Cost:</b> \$52 million. <b>Specific Role:</b> Engineer-of-Record.	<input type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>Wiley Nash Water Reclamation Facility Expansion &amp; Upgrades City of DeLand, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Keff served as Engineer-of-Record for the design of the power distribution, instrumentation and controls upgrades for a plant expansion project. This included a new influent pump station, grit handling, oxidation ditches, clarifiers and a UV treatment system. <b>Cost:</b> \$83 million. <b>Specific Role:</b> Engineer-of-Record.	<input type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>Design Build Lockhart Water Treatment Plant Expansion Hernando County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Keff served as Engineer-of-Record for the design of the power distribution, instrumentation and controls upgrades for a well water plant expansion project. This included new well pump upgrades, a new high service pump station, chemical treatment and a ground storage tank. <b>Cost:</b> \$10 million. <b>Specific Role:</b> Engineer-of-Record.	<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 <b>Robert Bolesta</b> <b>Senior Field Coordinator</b>	13. ROLE IN THIS CONTRACT <b>Construction Management/CEI</b>	14. YEARS EXPERIENCE a. TOTAL <b>40</b>	
		b. WITH CURRENT FIRM <b>17</b>	
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Sarasota, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) U.S. Naval Academy, Engineering University of South Florida, College of Public Health Leadership Institute Manatee Community College		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Bolesta has over 40 years of experience working on projects related to construction, inspections, operations, maintenance, investigations, studies, public relations, permitting, and regulatory standards. His responsibilities with Hazen have included construction management services, regulatory, treatment plant evaluations, water quality studies, Ordinance/Manual preparation and engineering assistance, resident project representative (RPR) for multiple projects, and field coordination for PACP and MACP inspections. Since 1984, Mr. Bolesta has worked with various clients on the west coast on a wide variety of utility/construction-related projects. <b>Professional Organizations:</b> Water Environment Foundation; Fellow, American Society of Civil Engineers			



**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Force Main Valve Replacement,</b> <b>Hillsborough County, FL</b>	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	
		CONSTRUCTION (If applicable) 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 a. Since 2012, Hazen has provided general water and wastewater engineering services to Hillsborough County as one of their on-call engineers. Mr. Bolesta provided inspection services and close coordination for above and below ground valve replacements at the County's wastewater treatment facilities and force main collection system which required careful planning to keep all systems in service. <b>Cost:</b> \$32 million <b>Specific Role:</b> Construction Management/RPR		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Inspection Services,</b> <b>City of Largo, FL</b>	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019	
		CONSTRUCTION (If applicable) 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 b. Mr. Bolesta provided inspection services and oversight for the City's headworks/5-mgd storage tank and post-treatment system. These projects were active at the same time and required close coordination with the City and two separate contractors. <b>Cost:</b> \$24 million <b>Specific Role:</b> Inspector		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>General Consulting Services,</b> <b>Sarasota County, FL</b>	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	
		CONSTRUCTION (If applicable) 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 c. Relevant projects include: <b>Construction Management Services:</b> Provided construction management and RPR services for the ammonium sulfate feed system at the Carlton WTP and pipeline rehabilitation projects. <b>Regulatory Assistance:</b> Detailed field assessment of the Sarasota County water and wastewater facilities <b>Cost:</b> Various <b>Specific Role:</b> Construction Management and Regulatory Assessment		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>54-inch Sewer Main Evaluation at the South Cross WWTF,</b> <b>Pinellas County, FL</b>	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019	
		CONSTRUCTION (If applicable) 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 d. Provided inspection services and pipe evaluation for the 54-inch sewer main at the wastewater treatment facility. Mr. Bolesta also provided evaluation and recommendations after review of CCTV video based on NASSCO standards. <b>Cost:</b> \$6.4 million (est. construction cost) <b>Specific Role:</b> Inspector and evaluation of CCTV videos.		
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Inspection Services,</b> <b>City of Venice, FL</b>	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015	
		CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Bolesta provided inspection service for the City on numerous projects including construction of odor control facilities and 7.5-mg reclaimed water storage tank at Venice Eastside WRF, overseeing the directional drilling 6-inch and 10-inch HDPE pipe to replace existing water mains under Hatchett Creek and on the island, and replacement of AC FM with PVC FM. <b>Cost:</b> \$5 million (est.) <b>Specific Role:</b> Inspector		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Travis Bains, CSHO Senior Field Coordinator</b>	13. ROLE IN THIS CONTRACT <b>Construction Management/CEI</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>27</b>	b. WITH CURRENT FIRM <b>4</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) AA, Engineering Technology AS, Business Administration		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Safety and Health Officer	



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Bains specializes in all aspects of construction management & inspection. As Hazen's Tampa Senior Field Coordinator, he serves multiple roles in numerous disciplines within Hazen. His diverse background and technical expertise allows him to assist Hazen's engineers with technical field challenges due to his solid understanding of the field. **Professional Organizations:** Florida Stormwater Association; American Society of Civil Engineers; Construction Management Association of America

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) <b>Marshall Street &amp; NW WRF Digester Cover Evaluation, City of Clearwater, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved an emergency repair of a one-million-gallon anaerobic digester that required immediate repairs. The corrective actions entail complete restoration of the anaerobic digester floating cover by rewelding all existing joints. The cover was lifted above the existing tank walls to repair the perimeter skirt of the cover. Anaerobic digester tank had to be bypassed and cleaned out to perform any inspection and improvements. Mr. Bains provided site inspection services to monitor the proposed bypass, cleaning and repairs by multiple contractors. Mr. Bains provided oversight for the maintenance of plant operations, monthly payment application verification, and corrective improvements. The project was performed with an expedited schedule. <b>Cost:</b> \$1 million <b>Specific Role:</b> Field Coordinator	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) <b>Lockwood Ridge Booster Pump Station, Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sarasota County contracted with Hazen to design a new diesel-powered booster pump station to improve flow capacity from upstream pump stations within the County's collection system. Mr. Bains provided oversight to design, specifications, and installation of mechanical per contract drawings. He also provided RPR Services to County Engineering with daily reports with pictures, scheduling, meeting agendas, and issues that might arise on a day-to-day basis. <b>Cost:</b> \$675,000 (construction) <b>Specific Role:</b> Field Coordinator	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) <b>Brighton Water Treatment Plant Improvements, Seminole Tribe of Florida, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 01/2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hazen provided pilot testing of RO membranes for a 1.6-water treatment plant upgrade based on a new water supply source. The project included evaluation of various membranes and anti-scalants. Mr. Bains provided construction inspection oversight for upgrades to the treatment plant, reporting to STOF with daily reports including pictures, scheduling, conflicts arising in the field. <b>Cost:</b> \$16.2 million (construction) <b>Specific Role:</b> Field Coordinator	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) <b>Cypress Manor Wastewater Plant Improvements, Pasco County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2025
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The purpose of this task order is to design a new batch plant to replace the existing facility, with an emphasis that the proposed improvements are to increase treatment capacity for future growth, reduce capital costs of new improvements, improve operating efficiency and optimize treatment process to enhance effluent quality above and beyond DEP permit requirements. Efforts to improve process efficiency are being implemented to stay ahead of potential future regulatory changes. This effort is being performed while mitigating construction logistics given the existing site footprint is very small therefore will be challenging to construct a new facility while maintaining the existing one in service. <b>Cost:</b> \$199,988 (fee) <b>Specific Role:</b> Senior Field Coordinator	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) <b>Little Road Water Treatment Plant Pumping System Upgrades, Pasco County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Hazen is responsible for designing the replacement of the existing 20-mgd pump station and chemical feed facility by constructing a new pump station facility built to FEMA wind load standards. Mr. Bains provided RPR services to Pasco County for new construction of a building with 23,000 SF, consisting approximately 675 linear foot of 30" & 36" DIP, installation of five High-Service Pumps, Chemical Tanks, and electrical duct banks. He is an integral part of this Design-Bid-Build as he ensures the project is built to design standards and specifications. Mr. Bains provided oversight for the maintenance of plant operations, monthly payment application verification, and corrective improvements. <b>Cost:</b> \$710,632 (fee) <b>Specific Role:</b> Senior Field Coordinator	<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 <b>Ryan McKenna, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Odor Control</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>17</b>	b. WITH CURRENT FIRM <b>7</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, FL**



16. EDUCATION (DEGREE AND SPECIALIZATION) ME, Environmental Engineering BS, Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. McKenna has experience that is primarily focused on odor control projects in all phases – from field sampling and alternative evaluations through detailed design, construction, and optimization. He is a nationally recognized odor control expert, Co-author of the *WEF Manual of Practice 25: Odor Emissions and Control for Collection Systems and Water Resource Recovery Facilities* (Second Edition), and has worked on over 100 odor control projects nationally and internationally. **Professional Organizations:** Water Environment Federation (Air Quality and Odor Control Committee); Florida Water Environment Association (Air Quality Committee)

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>San Carlos Pumping Station Upgrades, City of Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Mr. McKenna was the Odor Control Lead for the design of major pump, screening, electrical, and architectural upgrades to the San Carlos Pumping Station. He assessed the City's existing odor control strategies and evaluated alternatives for the continued mitigation of odors at the facility, both during construction activities and after startup. As part of the odor control design services, Mr. McKenna conducted field sampling, performed collection system fan testing, and selected and successfully implemented a trailer-mounted temporary odor control system to prevent nuisance odor complaints during construction activities. The installation of the permanent two-stage odor control system is currently in progress. <b>Cost:</b> \$23 million <b>Specific Role:</b> Odor Control Engineer		
(1) TITLE AND LOCATION (City and State) <b>Rocky Creek Wastewater Expansion, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. As part of the design of a vacuum sewer system for a septic to sewer conversion, Mr. McKenna designed a passive dry media adsorption system to treat odors at the discharge pump station. Work included system sizing, and the design of a two-stage dry media adsorption system with activated carbon as well as potassium permanganate impregnated specialty media for a cost-effective and low-maintenance solution to treat the wide range of odorous compounds present in the foul air stream. <b>Cost:</b> \$3.6 million <b>Specific Role:</b> Odor Control Engineer		
(1) TITLE AND LOCATION (City and State) <b>South County AWTP Odor Control Design Report, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Mr. McKenna performed comprehensive liquid-phase and vapor-phase sampling at the headworks structure, in-plant lift station, dumpster room, and upstream master lift stations of the South County AWTP as part of the development of a preliminary design report to address very high levels of H <sub>2</sub> S gas release and associated corrosion at the headworks. Work also included development of odor control system airflows and H <sub>2</sub> S concentration design criteria, duct sizing, recommended vapor-phase treatment technology and design criteria, and preliminary liquid-phase treatment recommendations and proposed next steps. <b>Cost:</b> \$191,000 (fee) <b>Specific Role:</b> Odor Control Engineer		
(1) TITLE AND LOCATION (City and State) <b>Gibsonton Septic to Sewer Project, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2026 (est.)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Mr. McKenna served as Hazen's Odor Control Lead as part of the design of a vacuum sewer system within an existing community currently on septic systems as part of the County's septic system conversion program. The proposed vacuum pump station will be located in close proximity to the community and mitigation of off-site odor impacts was a key consideration in the station's design. Mr. McKenna performed liquid and vapor phase sampling at an existing and similarly sized low pressure sewer system (LPSS) to identify the design criteria for the proposed odor control system. The selected treatment technology is an innovative solution able to withstand the very high temperatures and odor loading required for this unique application. The associated permitting, bidding, and construction phase services are ongoing. <b>Cost:</b> \$1.7 million (fee); \$11 million (est. construction) <b>Specific Role:</b> Odor Control Engineer		
(1) TITLE AND LOCATION (City and State) <b>Northwest Regional WRF Odor Control Improvements, Hillsborough County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2025 (est.)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. McKenna served as the Odor Control Lead for the evaluation and detailed design upgrade of an upgrade to the existing bio-tower odor control system with historical issues of media clogging, reduced airflow, diminished treatment performance, and increased maintenance requirements. Mr. McKenna conducted comprehensive liquid-phase and vapor-phase sampling, performed an alternatives analysis, calculated life-cycle cost estimates, performed ventilation and duct sizing calculations, and designed a biofilter polishing stage in conjunction with the existing bio-tower to mitigate the potential for nuisance odor complaints to the surrounding community, increase staff safety and comfort, and minimize the potential for corrosion of facility infrastructure. The associated construction phase services are ongoing. <b>Cost:</b> \$4.4 million (est.) <b>Specific Role:</b> Odor Control Engineer		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Jason Johnson Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>CADD/BIM</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20</b>	b. WITH CURRENT FIRM <b>7</b>

15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Hollywood, Florida</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Mr. Johnson is a Building Information Modeling (BIM) Designer with over 19 years of experience designing water treatment plants, wastewater plants, and civil infrastructure networks. He serves as the Southeast Regional BIM/CAD Coordinator for Hazen. His expertise also includes managing software, developing content, coordinating projects, and managing design teams, as well as providing training and mentorship to design staff. Mr. Johnson is an Autodesk-certified Revit user and is proficient in Civil 3D along with other various AutoDesk products. His role includes 3D modeling and CAD design, as well as working with newer technologies, such as virtual reality and laser scanning.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>City of Fort Lauderdale Stormwater Master Plan Modeling and Design Implementation, Services, Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>a.</b> Mr. Johnson's role in this project consists of design work using Civil 3D, as well as coordination with multiple subconsultants. The various aspects of design include storm drain improvements, seawall improvements, and new pump stations. The program is focused on resilient adaptation to climate change and inclusion of innovative and regional solutions. The work includes data collection; hydraulic/hydrologic stormwater modeling; and design, permitting, and construction services for stormwater capital improvement projects resulting from the revised stormwater master plan. <b>Status:</b> The project is estimated to be completed in 2024 <b>Cost:</b> \$9.8 million (fee authorized for assignments to date) <b>Specific Role:</b> CADD	<input checked="" type="checkbox"/> Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) <b>North District Wastewater Treatment Plant Electrical Distribution Building No. 3 Design, Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>b.</b> Mr. Johnson serves as BIM Manager for design of the North District's WWTP's Electrical Distribution Building No. 3 for the Miami-Dade Water and Sewer Department, which will replace the existing Electrical Building No. 1 and provide additional resilience to the WWTP. The Electrical Distribution Building No. 3 will be a two-story facility with nine 2,500-kW CAT Tier 4 generators. A state-of-the-art emergency operations center is also proposed to provide a safe, centralized location for plant staff to operate the North District WWTP during emergency conditions. <b>Status:</b> The project is estimated for completion in 2028. <b>Cost:</b> \$10.5 million (design and CMS est. fee); \$180 million (est. construction) <b>Specific Role:</b> BIM Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) <b>City of Tampa San Carlos Pump Station Improvements, Tampa, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>c.</b> This design-build pump station rehabilitation project utilized 3D modeling in Revit. This project also took advantage of Assemble Systems software that was used to track changes as the design progressed, get quantity take-offs, and provide cost estimating. <b>Cost:</b> \$25 million (construction); \$1.6 million (fee) <b>Specific Role:</b> Revit	<input checked="" type="checkbox"/> Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) <b>Escondida Desalination and Water Supply Project, Santiago, Chile</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>d.</b> A design-build desalination and water supply project to deliver 57 mgd of water to one of the largest copper mines in the world. Mr. Johnson was heavily involved with the 3D modeling and coordination of the RO Facilities. He also spent several months working with teams from various countries to conduct training on 3D software. Other responsibilities included setting up models for QTO and cost estimating, assisting with animations and renderings, along with overseeing the CAD/BIM production. <b>Cost:</b> \$3.43 billion (construction) <b>Specific Role:</b> CADD	<input type="checkbox"/> Check if project performed with current firm	

(1) TITLE AND LOCATION (City and State) <b>City of Houston Capers Ridge Pump Station (CRPS) Project, Houston, TX</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>e.</b> The project included design of an intake and pump station, control building, and electrical building. The design was completed using all 3D design software (Revit and Civil 3D). Animation and renderings were used to convey construction sequencing. Civil 3D and the use of GIS software was used to accurately bring in data for ground surface modeling. Mr. Johnson's role included all the 3D design work and coordination with other subconsultants. <b>Cost:</b> \$50 million (construction) <b>Specific Role:</b> CADD	<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 <b>Gerrit Bulman, PG</b> <b>Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Hydrogeological</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>23</b>	b. WITH CURRENT FIRM <b>4</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Hollywood, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Geological Sciences BS, Geological Sciences		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Geologist / FL	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Bulman is a professional geologist with extensive well planning, design, permitting, bidding, construction management, and water use permitting experience. He has experience working with the Coral Springs Improvement District and has managed wellfield rehabilitation, deep injection well, ASR well, reverse osmosis supply well, shallow and deep monitoring well, and stormwater drainage well permitting, bidding, construction, and testing projects throughout Florida. Mr. Bulman has extensive knowledge of the Florida Department of Environmental Protection (FDEP), the Water Management Districts, and other state/local agencies in Florida. Other general areas of experience include EPA WIFIA and SRF funding, regulatory exemptions, design-build project management, injection well system operation and reporting, and Florida Keys, Bahamas, and Caribbean hydrogeology. <b>Professional Organizations:</b> American Water Works Association, Florida Section.			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Injection Well Program Management, Miami-Dade Water and Sewer Department (WASD), Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The project is an unprecedented scale injection well implementation project for planning and program management for WASD. The Program is responsible for installing 17 new large, 24-inch-diameter injection wells to depths of 2,500 to 3,000 feet to accommodate over 1 bgd of wastewater. <b>Status:</b> The estimated completion includes a six-year extension to 2026 as this project is part of the ongoing Ocean Outfall Program. <b>Cost:</b> \$30 million (fee to date for program; includes 6-year extension to 2026); \$2 billion (est. total program cost) <b>Specific Role:</b> Hydrogeologist and Project Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>New WTP Feasibility Analysis, Design, and Test/Production Well, City of West Melbourne, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen was selected to conduct piloting, preliminary design, final design, and bidding services for a new 5-mgd drinking water plant utilizing membrane treatment. With the design of the WTP currently under way, Hazen was also tasked with an expedited design of the four water supply wells to serve the plant. The project included feasibility analysis to determine the feasibility of developing a new WTP and related infrastructure in lieu of obtaining potable water from an outside entity. Hazen designed and implemented a detailed testing plan to identify aquifer characteristics; and detailed testing to assess production capacity with depth, as well as consumptive use permitting. <b>Status:</b> Recommendations for additional production wells include 30 feet of surficial casing, additional casing near sewer lines, a final casing depth of 320 feet, and a 24-inch diameter for maximum surface area with an estimated completion date of 2026. <b>Cost:</b> \$350,000 (est. fee for wells); \$1.9 million (est. fee for WTP design) <b>Specific Role:</b> Geologist	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Deep Injection Well System, City of North Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This experimental design-build remediation project used a 3,200-foot-deep injection well for the disposal of ammonia contaminated groundwater at a closed landfill site. Mr. Bulman was responsible for FDEP permitting, subcontracting, hydrogeologic analyses, and reporting. He also developed a groundwater model to simulate the contaminated groundwater extraction system. <b>Cost:</b> \$14 million (Design-Build). <b>Specific Role:</b> Hydrogeologist and Project Manager (Mr. Bulman also provided operations and regulatory compliance during the first 118 months of operation)	<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Floridan Aquifer Well Design, Toho Water Authority, Kissimmee, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Bulman prepared specifications for bidding on a 600-foot water supply well for the Toho Water Authority. The design included criteria for well drilling, geophysical logging, water quality testing, development, pumping testing, and disinfection. Mr. Bulman also served as technical lead for the design, bidding, construction, testing and reporting for this project. The design included criteria for well drilling, geophysical logging, water quality testing, development, pumping testing and disinfection. <b>Cost:</b> \$27,000 (fee) <b>Specific Role:</b> Technical Lead/Hydrogeologist	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Deep Injection Well System Mechanical Integrity Testing, City of Deerfield Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Bulman prepared planning documents for the mechanical integrity testing of the City's Class I industrial deep injection well at the West WTP. He managed field services and regulatory communication during testing and submitted a certified report to FDEP in 2022 following successful testing of the well. <b>Cost:</b> \$30,000 <b>Specific Role:</b> Hydrogeologist and 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 <b>Angela Giuliano, PG Senior Principal Scientist</b>		13. ROLE IN THIS CONTRACT <b>Hydrogeological</b>		14. YEARS EXPERIENCE	
				a. TOTAL <b>13</b>	b. WITH CURRENT FIRM <b>3</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Boca Raton, Florida</b>					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Hydrogeology and Environmental Geology BS, Environmental and Engineering Geology			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Geologist / FL OSHA 40-hour HAZWOPER OSHA 10-hour Construction		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Giuliano has extensive project hydrogeologist experience overseeing public and private water production wells, in addition to permitting, design, construction, and testing of municipal injection wells. Her most notable projects have concentrated on the design, construction, rehabilitation, and testing of Class I injection wells and Floridan aquifer production wells. Ms. Giuliano's areas of expertise include injection well mechanical and integrity testing; UIC permitting; hydrogeology; surficial aquifer and Floridan aquifer production wells; water supply well construction, testing, and rehabilitation; project management; and contractor oversight.					



**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>City of Deerfield Beach Injection Well Rehabilitation and Rerate for the West WTP, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
a. Ms. Giuliano was responsible for a multi-phase project to restore the capacity of the City's Class I injection well. The first phase involved a technical memorandum outlining the history of performance issues, previous works and recommendations, current capacity losses, and preparing a plan for investigating and mitigating additional capacity losses. Ms. Giuliano was responsible for preparation of rehabilitation plan, specifications, contract documents, and assistance with procurement. The second phase included injectivity testing, oversight of contractor rehabilitation activities including geophysical logging, tubing brushing, reverse air development, and acidization. Successful rehabilitation resulted in a 200% increase in injectivity capacity and a minor permit modification to increase the injection rate and volume. <b>Cost:</b> \$100,086 (est. fee). <b>Specific Role:</b> Project Manager and Professional Geologist of Record.			
(1) TITLE AND LOCATION (City and State) <b>West WTP Injection Well Permit Renewal, City of Deerfield Beach, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
b. Ms. Giuliano is preparing an application for operation re-permitting, coordinating with FDEP, reviewing operational data, updating the O&M manual, record drawings and preparing a cost estimate for plugging and abandonment on behalf of the City. She continues to provide post-application services and correspondence with FDEP. <b>Status:</b> Project started in March 2023. <b>Cost:</b> \$40,289 (fee). <b>Specific Role:</b> Project Manager and Project Hydrogeologist.			
(1) TITLE AND LOCATION (City and State) <b>Upper Floridan Aquifer Supply Well No. 3 Sunbridge WTP, Toho Water Authority, Kissimmee, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
c. Ms. Giuliano provided comprehensive engineering and geological services for the design, construction, and testing of Floridan aquifer supply well No. 3, which is part of a water treatment plant expansion project for the Toho Water Authority that encompasses various new facilities and systems. <b>Cost:</b> \$142,289 (fee); \$1.2 million (construction); \$579,560 (construction, well drilling only); \$691,059 (construction, well pump, discharge & appurtenances). <b>Specific Role:</b> Project Hydrogeologist.			
(1) TITLE AND LOCATION (City and State) <b>Miami-Dade Water and Sewer Department Ocean Outfall Legislation (OOL) Program, Miami-Dade County, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
d. Support program-level management and oversight of the design consultant and contractor during critical construction activities of 17 municipal injection wells at the SDWWTP, CDWWTP and NDWWTP; manage consultant services during construction task authorizations for two consultants; manage and review consultant invoices, process allowance request, task authorizations, design reviews, schedules, and risk registers; provide robust field quality control and review of FDEP weekly reports for regulatory compliance, regulatory casing seat and testing requests, regulatory final construction reports, permit application, and support WASD with FDEP technical meeting; program-level collaboration and reporting, including coordination for other plant facility designs and scheduling, permitting, procurement, and client communication/reporting; and technical collaboration on WASD including regulatory interpretations and meetings. Ms. Giuliano continues to provide these services for the OOL Program in her current employment at Hazen. <b>Cost:</b> \$2.55 billion (est. total program cost). <b>Specific Role:</b> Project Manager.			
(1) TITLE AND LOCATION (City and State) <b>Town of Jupiter WTP Biannual Wellfield Testing, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm			
e. Ms. Giuliano was responsible for the biannual testing of fifty (50) Surficial aquifer production well water quality and pump performance to evaluate wellfield trends in production well performance. Responsibilities included coordination with water treatment plant operators, data management, water quality sampling, and evaluation of data to prepare a comprehensive report with recommendations for future rehabilitation. <b>Cost:</b> \$50,000 (est. fee). <b>Specific Role:</b> Project Hydrogeologist.			

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Julie Karleskint, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Permitting/Regulatory</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>39</b>	b. WITH CURRENT FIRM <b>18</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Sarasota, FL**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS Environmental Engineering BS Civil Engineering BS Environmental Science	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL – Civil/Environmental Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Ms. Karleskint has more than 39 years of experience in the water and wastewater industry. She has been involved in project management, design, operations, permitting, auditing, and construction services for various water and wastewater projects ranging from master planning to operational start up. Ms. Karleskint has worked with multiple Florida counties and municipalities, and is well known and respected by all regulatory agencies in the state. She also has extensive experience applying for and obtaining permits associated with water, wastewater, and reclaimed water facilities. **Professional Organizations:** American Water Works Association; Member and Fellow, American Society of Civil Engineers; Water Environment Federation; Florida Water Environment Association; Florida Select Society of Sanitary Sludge Shovelers

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Continuing Engineering Services Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Ms. Karleskint has provided regulatory and permitting assistance to Sarasota County since 2006. She previously performed a detailed environmental assessment of the County's water and wastewater facilities, oversaw development of lift station protocols, force main evaluation, EPA Groundwater Rule Assessment, development of the Stormwater Infrastructure Rehabilitation Program Manual, and updated the Phillippi Creek Septic Tank Replacement Program Master Plan while evaluating options for funding. <b>Cost:</b> \$3 million (est. fee to date) <b>Specific Role:</b> Project Manager		
b. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Capacity, Management, Operation, and Maintenance Program Sarasota County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Development of a CMOM program was required by a FDEP Consent Order associated with unplanned wastewater discharges for Sarasota County Utilities Department. Ms. Karleskint is currently working with Sarasota County staff to develop a framework to significantly reduce sanitary sewer overflows associated with their collection system. As part of this project, Ms. Karleskint is working closely with staff to understand their system operations so that protocols and procedures can be developed and implemented to more effectively and efficiently allow the County to meet their desired level of service and performance goals. As a result, a CMOM program plan will be developed that will document the current state of all CMOM-related programs and provide a timeline for implementing each component of the program. In addition, Hazen is providing regulatory assistance to the County to meet the requirements of the Consent Order. <b>Cost:</b> \$4 million (est. fee) <b>Specific Role:</b> Project Manager		
c. (1) TITLE AND LOCATION <i>(City and State)</i> <b>State Revolving Funding Assistance City of Venice, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Under the City of Venice Engineering Library contract, Ms. Karleskint provides permitting and regulatory assistance for the City's NPDES Discharge permit. She also provides monitoring during construction associated with the FDEP SRF, including verification of American Iron and Steel, Davis-Bacon, and other SRF requirements for various City projects. Ms. Karleskint also manages projects involving water main replacements, stormwater improvements, pump station improvements, and both water and wastewater treatment improvements. <b>Cost:</b> \$400,000 (fee) <b>Specific Role:</b> Project Manager		
d. (1) TITLE AND LOCATION <i>(City and State)</i> <b>Utility Engineer City of Arcadia, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Since 2006, Ms. Karleskint has been providing general engineering assistance to the City on various projects. This includes funding, design, and construction management of water, wastewater, stormwater, and roadway projects. In providing utility engineering to the City, She has assisted with funding over \$25 million for various projects thru various agencies including FDEP, SWFWMD, DEO and FDOT. This includes water treatment, supply and distribution system improvements, sanitary sewer and wastewater treatment plant improvements, pump station improvements, roadway, and stormwater improvements. <b>Cost:</b> \$5 million (est. fee to date) <b>Specific Role:</b> Project Manager		
e. (1) TITLE AND LOCATION <i>(City and State)</i> <b>General Engineering and Permitting Assistance City of Sarasota, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 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	
Ms. Karleskint oversees general engineering and permitting assistance to the City on various projects. This includes permitting, design, and construction management. She is also currently providing permitting assistance with the renewal to City's Advanced Wastewater Treatment Plant NPDES permit that discharges to Whitaker Bayou and recently assisted the City on renewing the Industrial Wastewater Discharge Permit for the City's Deep Injection Well. In addition, Ms. Karleskint provides project management expertise for planning, hydraulic modeling, engineering design, and construction assistance on various City engineering projects. <b>Cost:</b> \$1.5 million (est. fee to date) <b>Specific Role:</b> Project Manager		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Evan Curtis, PE Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Instrumentation &amp; Controls/ SCADA</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>30</b>	b. WITH CURRENT FIRM <b>23</b>

15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Boca Raton, Florida</b>	
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16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL – Civil Engineering
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
 Mr. Curtis has extensive experience designing and commissioning various water and wastewater utility projects, most significantly in the area of instrumentation and controls. These projects involve existing system evaluations, design of improvements and construction phase services, as well as hands-on design/build services, including equipment procurement, programming, training, and startup. **Professional Organizations:** Instrumentation, Systems and Automation Society, American Water Works Association.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>Peele-Dixie Wellfield and Membrane Water Treatment Plant with Concentrate Disposal, City of Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008	CONSTRUCTION <i>(If applicable)</i> 2008
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen provided engineering services for conversion of the Peele-Dixie lime softening plant to a membrane facility. This included testing, predesign, design, and construction oversight services for a 15-mgd raw water wellfield, a 12-mgd finished water membrane plant, and a 5.8-mgd deep injection well for concentrate disposal. Hazen also prepared operator training sessions, process guidance, normalized data review, year one instrumentation and controls assistance, and corrosion control testing and analyses. <b>Cost:</b> \$41.3 million (construction). <b>Specific Role:</b> Instrumentation and Controls (I&C) Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Owner's Representative for Design-Build Construction of New Water Treatment Plant, City of Delray Beach, FL</b>	(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 As the City's Owner Representative, Mr. Curtis and the Hazen team provide technical assistance to the City throughout multiple project phases. The project will include construction of a new WTP, installation of six SAS wells, rehabilitation of a portion of the existing SAS wells, and construction of a deep injection well and monitor wells. Tasks include, but are not limited to, scope validation of the new WTP, including documentation of the treatment selection and determination of the initial capacity; evaluation of and recommendation of project delivery methods; development of progressive Design-Build documents for advertisement; assistance in the review of documents provided by the proposers; assistance in the development and technical review of proposed scope of work and fees from the selected Design-Build team; facilitating funding assistance; and managing document control. Hazen continues to partner with the City as Owner's Representative, providing technical reviews and assistance. Phase 1 support services currently being provided include engineering services during the pre-design phase, Phase 1 detailed design, and schedule and cost reviews. <b>Cost:</b> \$775,000 (fee through Phase I); \$250 million (project construction estimate). <b>Specific Role:</b> I&C Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>City of Hallandale Beach Membrane Softening Plant, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> 2009
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Curtis was responsible for the design of instrumentation and controls related to the expansion of an existing injection well pumping system and replacement of the control systems. The control system design features fully automated wet well level and pump controls including 3 wet wells, 7 constant speed pumps, 5 variable speed pumps, and two discharge headers. The control system design integrates a new GE PLC and local touchscreen HMI into the existing plant control system via fiber optic interface to the plant control room. <b>Cost:</b> \$20 million. <b>Specific Role:</b> I&C Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>East Water Treatment Plant Expansion, City of Plantation, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2003	CONSTRUCTION <i>(If applicable)</i> 2003
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Hazen provided design, permitting, bid and award services, and construction management services for expansion of the City's existing 6-mgd membrane softening facility to 12 mgd, and a new clearwell, new transfer, and high-service pumping facilities sized to meet the higher flow rates provided during this expansion. Services included detailed design, permitting, bid, and award services for the addition of three 2-mgd nanofiltration skids (hybrid arrays), a nanofiltration booster pump, and a permeate flushing system within the existing membrane building. <b>Cost:</b> \$2 million (fee). <b>Specific Role:</b> I&C Engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water and Wastewater Telemetry Reliability Upgrade, City of Boca Raton, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> 2021
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Curtis was responsible for the design of a 288-site radio telemetry system. The project included design of upgrades to remote telemetry units, 900 MHz licensed radio base station equipment, the addition of cellular communication links, and electrical improvements. The upgraded system replaces the existing serial Modbus protocol with Ethernet DNP3 protocol featuring event logging at each RTU and report-by-exception communications. Cellular communications will be provided to each site and both cellular and licensed 900 MHz radios at critical sites with automatic failover between cellular and radio. <b>Cost:</b> \$310,370 (fee, design and bidding); \$4.38 million (construction). <b>Specific Role:</b> Project Manager and I&C Engineer.	<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 <b>Amal Yelkur, EI, CDT Associate</b>	13. ROLE IN THIS CONTRACT <b>Instrumentation &amp; Controls/ SCADA</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>26</b>	b. WITH CURRENT FIRM <b>5</b>

15. FIRM NAME AND LOCATION *(City and State)*  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Environmental Engineering (Course Work) BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) EI / SD – Environmental Engineering Class II – Wastewater Operator/SD
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*  
Mr. Yelkur has experience in design and implementation of instrumentation and controls for lift/pump stations, water and wastewater treatment, and solids handling processes. As a principal I&C specialist, he is responsible for preparing process and instrumentation diagrams (P&IDs), software programming specifications, coordinating process interfaces, providing control methodologies, and performing system evaluations cost analysis for both industrial and utility facilities including construction services and site supervision. His experience includes instrumentation programming, calibration, and replacement of PLCs, VFDs, RTU, HMI and OIT. He also assisted with patching and upgrading firmware, operating systems and drivers to mitigate vulnerabilities, and maintenance of SCADA standards for VT SCADA & PLC Logic. **Professional Organizations:** American Water Works Association; Instrument Society of America

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Howard F. Curren (HFC) AWWTP Master Plan Improvements (Design-Build), City of Tampa, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Yelkur serves as Lead Project Engineer for the overall plant instrumentation and controls for this design-build project consisting of major improvement to the City's 96-mgd AWT facility. Mr. Yelkur is responsible for the I&C design and rehabilitation of the entire facility with industry leading I&C technology including development of SCADA system integration and programming standards using VTSCADA, design standards for installation and upgrade enterprise server, network, client and security systems and infrastructure, design standards for installation and upgrade network security infrastructure, servers, systems and software, and implementing SCADA and I&C change management. He is also leading the design and construction oversight of improvements to existing unit process, performing QA/QC on PLC/ HMI and OIT programs, and startup activities. He is maintaining the City of Tampa SCADA standards for VT SCADA and PLC logic during construction. <b>Cost:</b> \$254 million (construction) <b>Specific Role:</b> Lead Project Engineer, I&C	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Industrial Chloramine System Detailed Design and Bidding Services, Pinellas County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION 2024
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Yelkur served as Lead I&C Engineer for design and construction oversight of a new liquid ammonium sulfate chemical feed system for chloramine formation and the associated instrumentation required for the industrial WTP, including updating the operating protocol of the facility to accommodate treatment updates, and programming, calibration, and replacement for addition of probes and meters. Mr. Yelkur also assisted with oversight of construction and startup activities of the I&C section of the project, including QA/QC of the PLC programs to confirm that the logic meets standards and removal of old logic and tags. <b>Cost:</b> \$104,266 (design); \$165,260 (construction) <b>Specific Role:</b> Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>South Gate Main Pump Station, Sarasota County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Yelkur serves as Lead I&C Engineer for the design and construction oversight of a new raw sewage pump station for Sarasota County. This project involves standardizing a new PLC, control panel, radio system applications, and process instrumentation and control systems for a main pump station. The project also includes automating the unmanned critical pump station for no failure will require thorough and successful design concepts and guaranteed operator-friendly and industry standards. He is assisting with maintenance of SCADA standards for HMI and PLC Logic. <b>Cost:</b> \$2.5 million (construction) <b>Specific Role:</b> Lead Project Engineer, I&C	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Cypress Manor WWTP Improvements, Pasco County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Yelkur serves as Lead I&C Engineer assisting with the design of instrumentation and controls and oversight of construction and startup activities of the replacement of a 0.068-mgd wastewater treatment facility. The replacement includes design for instrumentation including programming, calibration and replacement for a wide variety of PLCs, meters, probes, VFDs, RTU, HMI and OIT industrial controls infrastructure. <b>Cost:</b> \$578,000 (design); \$2.6 million (construction) <b>Specific Role:</b> Lead Project Engineer, I&C	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Eastside Water Reclamation Facility (EWRf) Transfer Pump Design, Bidding and Construction Services, City of Venice, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Yelkur served as Lead I&C Engineer for the replacement of transfer pumps at the EWRf. Design of instrumentation included programming, calibration and replacement for PLCs, meters, VFDs, RTU, and upgrades to the existing HMI. Construction oversight included QA/QC on PLC programs to confirm that the logic meets standards and removal of old logic and tags. <b>Cost:</b> \$260,000 (fee); \$1.2 million (construction) <b>Specific Role:</b> Lead I&C Engineer	<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 <b>Rose Jesse, CPE Senior Associate</b>		13. ROLE IN THIS CONTRACT <b>Cost Estimating</b>		14. YEARS EXPERIENCE	
				a. TOTAL <b>28</b>	b. WITH CURRENT FIRM <b>10</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, New York, New York</b>					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Professional Estimator (CPE)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Jesse has 27 years of proven success in cost estimating, budgeting, scheduling, and document and project controls. She creates cost estimates by utilizing real data on cost and construction knowledge for a wide range of water and wastewater projects. <b>Professional Organizations:</b> American Society of Professional Engineers, NYC Chapter President; Project Management Institute; Association for the Advancement of Cost Engineering International; National Association of Women in Construction; New York Water Environment Federation					



**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>Stormwater Master Plan Modeling and Design Implementation Services, City of Fort Lauderdale, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Jesse prepared cost estimates for various drainage, pump station, and seawall installations in several neighborhoods including Southeast Isles and Edgewood for the City of Fort Lauderdale. The program is focused on resilient adaptation to climate change and the inclusion of innovative and regional solutions and includes delivery of a new stormwater master plan model; data collection; a prioritized stormwater/resiliency capital improvements plan; hydraulic/hydrologic stormwater modeling; and design, permitting, and construction services for stormwater capital improvement projects resulting from the revised stormwater master plan. <b>Status:</b> Original duration was from 04/2016-04/2021; the first of two 5-year extensions was exercised in April 2021 (runs through April 2026; potentially to 2031). <b>Cost:</b> \$22.1 million (fee-to-date); \$200 million (est. construction). <b>Specific Role:</b> Cost Estimator.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) <b>South Florida Water Management District Miami &amp; North New River Canals Conveyance Improvements Value Engineering Study, FL</b>	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Jesse served as the cost estimator to provide and analyze value engineering concepts on a master planning level. This project consists of removing over three million cubic yards of material at a cost of \$400 million. <b>Cost:</b> \$184,859 (fee); \$400 million (estimate). <b>Specific Role:</b> Cost Estimator.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) <b>Lift Station Evaluations, St. Augustine, FL</b>	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Jesse provided guidance for the estimation of the City's 13 impacted lift stations in order to evaluate their existing condition, determine their estimated value based upon current condition, and estimate repair and/or replacement costs. <b>Cost:</b> \$1.4 million (fee) <b>Specific Role:</b> Cost Estimator.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) <b>Madbury Backwash Tank and Pump Station, Portsmouth, NH</b>	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project for the Madbury Water Treatment Plant was a multi-disciplinary design initiative. In addition to the pump station, the entire plant was constructed under the City of Portsmouth's sustainability program. The project received LEED silver certification in 2011. <b>Cost:</b> \$594,600 (fee). <b>Specific Role:</b> Lead Cost Estimator.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) <b>Massachusetts Water Resources Authority (MWRA) Agency-Wide and Carroll WTP Technical Assistance Contracts, Boston Metropolitan Area, MA</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Jesse served as Cost Estimator/Reviewer for this two-year task-order based (on call) Technical Services Contract that started in December 2020. This contract (Contract 7713) involves as needed study, design, and engineering during construction for projects at the 405-mgd Carroll Water Treatment Plant and water supply infrastructure. Current projects include the installation of a dehumidification unit within the plant's UV disinfection room and replacement of a 42- and 48-inch raw water valves and the Wachuset Lower Gatehouse. <b>Status:</b> This two-year task-order based (on call) Technical Services Contract started in December 2020 is respected for completion in December of 2024. <b>Cost:</b> \$594,600 (fee.) <b>Specific Role:</b> Cost Estimator/Reviewer.	<input checked="" type="checkbox"/> Check if project performed with current firm	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Sharon Simington</b> <b>Senior Principal Funding Specialist</b>	13. ROLE IN THIS CONTRACT <b>Funding</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>21</b>	b. WITH CURRENT FIRM <b>3</b>
15. FIRM NAME AND LOCATION (City and State) <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) BSAS, University of Florida (expected 2027) AA, University of South Florida		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Simington has extensive experience working with local governments to fund infrastructure projects that better communities. As the Southeast Regional Funding Program Leader for Hazen, she focuses her experience on water, wastewater, and stormwater utilities projects and provides the planning, application, and administration for capital improvement projects. She has relationships with many funding agencies, community members and leaders, and consulting engineers. Ms. Simington helps clients in various industries and disciplines to identify potential funding sources. She leads efforts to secure alternative funding for a variety projects, acting as the liaison between agency and community, providing a smooth funding experience and cohesive working environment.			



**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>City of DeLand Fairgrounds Water Supply Wells and Water Treatment Plant, DeLand, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Simington led the planning effort and production of the Facility Plan. The Blue Spring minimum flow regime (MFR) is the driving factor for development of new water supplies outside of the Blue Spring Springshed. It is estimated that approximately 6.0 – 8.0 MGD of new groundwater outside the Springshed will need to be developed by 2035. The City has identified a new wellfield and water treatment plant (WTP) site in the vicinity of the Volusia County Fairgrounds. The City's current CUP already includes three wells on the Fairground property. In addition to the Fairground wells, an additional three wells are proposed in the vicinity of Bicentennial Park to help supplement the needed flow outside the Springshed. <b>Cost:</b> \$31.7 million (construction). <b>Funding Programs:</b> Drinking Water State Revolving Fund. <b>Specific Role:</b> Senior Program Administrator.		
b.	(1) TITLE AND LOCATION (City and State) <b>City of Tavares Downtown Community Redevelopment Agency (CRA) Water and Wastewater Improvements, Tavares, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project includes approximately 8-inch, 10-inch, 12-inch and 15-inch-diameter PVC and ductile iron gravity collection mains, relining of 8-inch, 10-inch and 12-inch diameter VCP gravity collection mains, rehabilitation and coating of 145 manholes, removal and replacement of 40 manholes, of 4-inch and 6-inch diameter PVC force main pipe, installation of 4-inch, 6-inch, 8-inch, 10-inch, 12-inch and 16-inch diameter of PVC and ductile iron potable water distribution main within the City, County, Florida Department of Transportation (FDOT) rights-of-way. The installation methods included open cut and jack and bore. The project work also includes as-built survey, utility locates, maintenance of traffic, shop drawing and manufacturer operational and maintenance submittals, erosion control, startup, testing and all necessary ancillary activities to complete the work. <b>Cost:</b> \$11.9 million (construction). <b>Funding Programs:</b> Clean Water State Revolving Fund, Drinking Water State Revolving Fund. <b>Specific Role:</b> Senior Program Administrator.		
c.	(1) TITLE AND LOCATION (City and State) <b>DeSoto County Funding Analysis, Recommendation and Funding Management Hull Road Water System, DeSoto County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Simington provided funding strategy, grant application, grant agreement coordination, grant administration, and project closeout. The 8-inch water main will be extended on West Hull Avenue down to SW Prairie Avenue and then through SW Collins Street, where it will tie into the existing 16-inch main. A new flow control valve will be installed on the 16-inch main at this connection to divert a portion of the water coming from the Peace River Water Supplier through the Hull portion of the Digital Control Unit (DCU) system. The project also includes modifications at the remaining two dead ends on Hill and Oak Creek Roads. The 4-inch line that currently dead-ends on Oak Creek Road will be looped back to the main 8-inch line on SW Hull Avenue. The 8-inch line that currently dead-ends on Hill Street will be looped back on itself with a new 8-inch line and isolation valve to route the water through the new Hill Street loop. The new piping and flow control valve will be used to fully loop the dead-end pipes within the Hull. These improvements on the DCU distribution line will net savings of about 46 million gallons of flush water annually. <b>Cost:</b> \$2.5 million (construction). <b>Funding Programs:</b> South Florida Water Management District. <b>Specific Role:</b> Senior Program Administrator.		
d.	(1) TITLE AND LOCATION (City and State) <b>Manatee County Funding Analysis and Strategic Plan, Manatee County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Manatee County utilizes a 5-year Capital Improvement Plan (CIP) for planned project organization and budgeting purposes. As part of the CIP planning process and project inclusion, a budget element is included that delineates where project funding will be assessed. The purpose of the Funding Analysis and Strategic Plan was to provide the County with an analysis of funding options that will assist in the decision-making process with respect to funding sources. The plan provided programmatic background details of available programs, requirements, deadlines, project eligibility, and funding capacity. <b>Cost:</b> \$50,000 (fee). <b>Funding Program:</b> Various funding programs. <b>Specific Role:</b> Southeast Regional Funding Program Leader.		
e.	(1) TITLE AND LOCATION (City and State) <b>City of Tampa Funding Evaluation for the Howard F. Curren AWTP Biogas Use and Digestion System Improvements (Amendment No. 2), Tampa, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Simington provided a funding report regarding opportunities available to the City for this project. This portion of a larger scope of work included the review of available funding sources and identification of potential funding opportunities for the construction of the projects designed under Amendment 2. An evaluation of key contingencies associated with each funding source, such as impacts on direct project costs regarding funding procurement and meeting funding requirements (e.g., Davis Bacon Wages, Buy American) were included. General timeframes and implications regarding the project schedule were also identified. Results of the review and evaluation were summarized in a report and presented at a meeting with the City. <b>Cost:</b> \$3.98 million (final design fee). <b>Funding Programs:</b> Various CHP funding programs, Tax Credits, Bonds, and Lease Agreements. <b>Specific Role:</b> Southeast Regional Funding Program Leader.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Dave Baar, PE</b> <b>Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Constructability</b>	14. YEARS EXPERIENCE a. TOTAL <b>41</b>	
		b. WITH CURRENT FIRM <b>6</b>	
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Tampa, Florida</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Engineering BS, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE / FL, GA – Environmental	



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Mr. Baar has over 41 years of consulting engineering experience in the planning, design, and construction of civil and environmental engineering projects. In addition, he has over 29 years of experience in alternative delivery of projects and has provided design with construction-related focus. **Professional Organizations:** Design-Build Institute of America

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> <b>South County AWTP Expansion</b> <b>Hillsborough, County, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) Ongoing
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This design build project consists of expanding the advanced wastewater treatment plant (AWTP) capacity from 10 mgd to 13 mgd by adding improvements at the headworks; BNR basins; new clarifier; new deep bed filter cell; chlorine contact basins; reject holding; intermediate, effluent, and reclaim pump station; electrical power feed; and generator and controls. <b>Cost:</b> \$67 million <b>Specific Role:</b> Design Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Wastewater Recover, Confidential Micro-Electronics Company</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2020
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This 12-mgd micro-electronics wastewater treatment plant consisted of biological and MBR treatment, reverse osmosis (RO), and ion exchange polishing and zero waste treatment of RO reject. Mr. Baar served as Design-Build Delivery Manager responsible for construction value engineering, constructability, subcontractor and prefabricators design coordination with design team, submittal reviews, construction coordination. <b>Cost:</b> \$350 million <b>Specific Role:</b> Design-Build Delivery Manager	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>University Park Water Reclamation Facility Upgrade</b> <b>Pennsylvania State University, State College, PA</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2021
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This progressive design-build project consists of a new preliminary treatment facility, and a new 3-mgd biological and membrane reactor facility with a future expansion to 4 mgd and related demolition. Mr. Baar was responsible for construction value engineering, constructability, vendor long lead design coordination and design to include PDB requirements. <b>Cost:</b> \$38 million <b>Specific Role:</b> Senior Design-Build Manager	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>Everest Water Reclamation Facility Expansion</b> <b>City of Cape Coral, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2012
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project was for a capacity increase from 8.6 to 15 mgd, added biological nutrient removal processes, new and modified aeration basins, clarifiers, filters, storage tanks, pumping facilities and administration and electrical buildings. As Project and QC Manager, Mr. Baar was responsible for the design and quality control during construction. His role included onsite inspections, daily logs, design and specification review and comments, performance of overall construction QC. <b>Cost:</b> \$110 million <b>Specific Role:</b> Project and QC Manager	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> <b>F. Wayne Hill Water Reclamation Facility PLC Conversion Project</b> <b>Gwinnett County, GA</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) Ongoing
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project consists of replacing existing DCS control system with a PLC-based system, system mechanical and electrical improvements, updating P&IDs and operational manuals and construction. Mr. Baar was responsible for on-site inspections, written daily logs, design and specification review and comments, administration of construction, reviewing contractor invoices and overall construction coordination. <b>Cost:</b> \$52 million <b>Specific Role:</b> Construction 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 <b>Boris Sladojevic Senior GIS Analyst</b>	13. ROLE IN THIS CONTRACT <b>GIS</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>5</b>	b. WITH CURRENT FIRM <b>3</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Science	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Sladojevic has 5 years of experience working in the public and private sector using GIS for environmental restoration and assessment purposes. He has experience with ArcGIS Pro using advanced GIS tools for vector and raster data analysis, collection, and data management as well as ArcGIS Online for web-based application development. Mr. Sladojevic has experience in Model Builder, Python, and Arcade scripting, database management, and image classification. Boris has worked on shoreline rate of change studies, flood mapping, collection system rehabilitation programs, CMOM and SSES projects, and he served as an NHD editor/steward for the USGS, where he edited and maintained the National Hydrography Dataset (NHD).

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>a. (3) Wastewater Collection System Program Management Clearwater, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm GIS asset management for City of Clearwater sewer system. ArcGIS Pro and ArcGIS Online for geoprocessing, database management, program tracking, rehabilitation efforts, and map creation. ArcGIS Online group management, ESRI Dashboard, Field Map (mobile), web application development for collection system rehabilitation and work order tracking. <b>Cost:</b> \$18 million (fee); \$110 million (construction) <b>Specific Role:</b> GIS Analyst		
<b>b. (3) Capacity, Management, Operations, and Maintenance (CMOM) Program Development, Sarasota County, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Use of ArcGIS Pro, ArcGIS Online, and ESRI Dashboards for geoprocessing, map creation, and application development for asset management. GIS for smoke testing, manhole inspections, sewer asset condition, lift station runtime analysis, I/I, and flow monitoring data. <b>Cost:</b> \$4 million (fee) <b>Specific Role:</b> GIS Analyst		
<b>c. (3) SSES-CSAP Development, Fort Lauderdale, FL</b>	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Risk model framework development. Generating asset-level risk scores from Likelihood of Failure (LOF) and Consequence of Failure (COF) criteria using model builder, python, and SQL expressions. <b>Cost:</b> \$215,000 (fee) <b>Specific Role:</b> GIS Analyst		
<b>d. (3) Lead and Copper Rule Revisions – Compliance Assistance Tallahassee, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Development of a Lead and Copper Rule GIS inventory using existing city water service data. Use of Model Builder and Python scripting to give structure to the analysis and produce comprehensive, repeatable workflows. Further analysis includes identifying prioritization areas for service lines classified as unknowns for additional field work. The LCRR inventory's GIS schema is structured to be effectively used with ESRI technology and develop custom web and mobile applications. <b>Cost:</b> \$298,000 (fee) <b>Specific Role:</b> GIS Analyst		
<b>e. (3) Lead and Copper Rule, Revisions, Miami-Dade County, FL</b>	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Lead and Copper Rule Revisions (LCRR) inventory framework development in GIS using ArcGIS Pro, Python, and Jupyter Notebook. Service line analysis, management, classification, and prioritization in compliance with EPA and FDEP. <b>Cost:</b> \$304,000 (fee) <b>Specific Role:</b> GIS Analyst		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>William Russell, RA, AIA, LEED AP Associate Vice President</b>	13. ROLE IN THIS CONTRACT <b>Architecture</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>41</b>	b. WITH CURRENT FIRM <b>25</b>
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Hazen and Sawyer, Raleigh, North Carolina</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) BA, Design		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Registered Architect / FL (AR102588), NC, VA, IL, MD, CT, NY, NH, TX, OH, CA, ME, CO, AZ, NM, WV, AR, UT, GA American Institute of Architects (AIA) LEED Accredited Professional (LEED AP)	



18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Russell has 41 years of experience in the architectural design of water and wastewater treatment plants, maintenance buildings, laboratories, and other industrial facilities. This includes preliminary and final design, technical specifications, cost estimation, and project administration during construction.  
**Professional Organizations:** The Society for Protective Coatings; International Code Congress.

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Winson Water Treatment Plant Rehabilitation, City of North Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 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 Mr. Russell provided design services and served as the Building Sustainability Coordinator. The project included process modifications and a new administration building with control room, laboratory, office, emergency operations center, and other common facilities, as well as modification to existing buildings. The new administration building was designed to incorporate sustainable strategies. <b>Cost:</b> \$13.5 million (construction). <b>Specific Role:</b> Architect and Building Sustainability Coordinator.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Middle Fork WTP Design, Indiana American Water, Richmond, IN</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 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 Provided design and construction administration for the WTP and associated facilities. The project included a new treatment building that encompassed administrative and laboratory spaces; flocculation, sedimentation and filter room, chemical rooms; and UV room. The administrative area included a control room, SCADA room, offices, restroom/locker room, break area, training room and laboratory. The chemical areas housed ferric chloride, liquid ammonium, coagulant, polymer, sodium hydroxide, sodium hypochlorite, phosphoric acid, fluoride, permanganate, and analyzer room. The chemical areas were separated by a common drive that was utilized for filling. The project included a clearwell with a single-ply roofing system. The building utilized architectural concrete masonry for the façade, low slope single ply roofing system, aluminum windows and doors. Removable translucent panels provided access to the chemical rooms. <b>Cost:</b> \$31 million (construction). <b>Specific Role:</b> QA/QC Reviewer for Architectural Design.		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>East Central Regional WRF Biosolids Improvements, City of West Palm Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 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 The project included technical evaluation, design, and construction. Engineering evaluations included biological process modeling; screenings-level evaluations of multiple liquids treatment, solids treatment, cogeneration, and biosolids disposal options; and facility sizing, life-cycle cost analyses, and performance predictions to recommend the most cost-effective long-term solution to ECRWRF biosolids treatment and management. Work included an upgrade of an existing gravity belt thickening facility, new WAS storage with PD blowers, installation of six new anaerobic digesters and associated equipment, five new dewatering centrifuges, new septage and FOG receiving stations, and conversion of an existing aerobic digester to an aeration basin. <b>Cost:</b> \$96.8 million (construction). <b>Specific Role:</b> QA/QC Reviewer for Architectural Design.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Water Treatment Plant Improvements, City of Arcadia, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm Mr. Russell provided preliminary architectural design and final QA/QC services. The project included a new high service pump station building, which also housed a control room, operator's laboratory, office, toilet facilities, and mechanical spaces. The building utilized masonry walls with a stucco finish. <b>Cost:</b> \$7.7 million (construction). <b>Specific Role:</b> QA/QC Reviewer for Architectural Design; Preliminary Design.		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Eastside Water Treatment Facility Expansion, City of Chino, CA</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2023
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm For this project, Mr. Russell designed a 3,500 gpm treatment expansion at the Eastside WTF. Treatment includes GAC for 1,2,3-TCP and ion exchange for nitrate. The design includes treatment of three wells, with potential for a fourth, pipelines, buildings and control systems. This design required careful integration of the new equipment with existing treatment on site. The project utilized a metal building system with factory foamed metal wall panels. Provided construction administration services related to the building systems. <b>Cost:</b> \$7 million (construction). <b>Specific Role:</b> Architect.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME <b>Timothy Ware, PE Senior Associate</b>	13. ROLE IN THIS CONTRACT <b>Utility/Asset Management</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20</b>	b. WITH CURRENT FIRM <b>&lt;1</b>

15. FIRM NAME AND LOCATION (City and State)  
**Hazen and Sawyer, Tampa, Florida**



16. EDUCATION (DEGREE AND SPECIALIZATION) MS, University of South Florida, 2011, Environmental Engineering BS, University of South Florida, 2006, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) PE / FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Mr. Ware has over 20 years of experience as an engineer, operator and facility manager for large water and wastewater collection and treatment systems. Prior to a career in consulting, he worked within municipalities and in contract operations evaluating, operating, and managing large water and wastewater treatment plants, collection systems and pumping stations. Mr. Ware focuses on asset management and optimizing the maintenance and reliability aspects of plants for facilities throughout the US. He is a professional engineer in Florida and holds a Florida Wastewater Operator B license. **Professional Organizations:** Florida Water Environment Association, American Water Works Association.

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) <b>Asset Condition Assessment, City of Atlanta, GA</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>a.</b> Mr. Ware served as Project Manager and Technical Expert for an asset evaluation for all of the City's 2 Water Plants, 3 Wastewater Plants, 18 Pump Stations and 12 Water Storage Tanks. Over 14,000 assets were reviewed and updated within their CMMS system and an updated capital improvement plan was developed. The project uses visual condition assessment coupled with Tier 2 predictive maintenance testing. <b>Cost:</b> \$1.7 million <b>Specific Role:</b> Project Manager, Technical Expert.		
(1) TITLE AND LOCATION (City and State) <b>Lift Station and Force Main Master Plan, Plant City, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>b.</b> Mr. Ware served as Project Manager to complete a condition assessment and process evaluation for the City of Plant City's pump station and force main system. The City's system has 43 lift stations and more than 30 miles of force mains. Review operational and maintenance history as well as field condition assessments to develop a long-term CIP program for the city to ensure long-term operation. Excavated and conducted thickness testing on several cast and ductile iron force mains to determine remaining useful life. <b>Cost:</b> \$140,000 <b>Specific Role:</b> Project Manager		
(1) TITLE AND LOCATION (City and State) <b>Operational Assistance and Compliance, Santa Fe, NM</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>c.</b> Mr. Ware serves as a Technical Expert in assisting the City get their anaerobic digesters operating again including an equipment condition assessment, operational testing and complete system evaluation. He also works with the client to develop staff training on proper system operations and maintenance. <b>Cost:</b> \$2.6 million <b>Specific Role:</b> Technical Expert		
(1) TITLE AND LOCATION (City and State) <b>NPDES Permit Renewal Assistance, Oldsmar, FL</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2025	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>d.</b> Mr. Ware served as Technical Lead and Engineer-of-Record for the renewal of the NPDES Permit for the City's wastewater treatment plant. His responsibilities included reviewing all technical data for the permit and worked with the City to develop a Collection System Action Plan as required under new FDEP regulations. <b>Cost:</b> \$25,000 <b>Specific Role:</b> Technical Lead, Engineer-of-Record		
(1) TITLE AND LOCATION (City and State) <b>Field Services Organizational Review, Fort Wayne, IN</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <b>e.</b> Mr. Ware served as Technical Advisor to assist the City with the development of new key performance indicators (KPI's) to improve their linear asset repair and replacement team in evaluating crew performance and achievements. He worked to identify choke points and limitations within their current staffing and deployment and discussed solutions to work around those and improve overall efficiency for staff and the City. <b>Cost:</b> \$175,000 <b>Specific Role:</b> Technical Advisor		

Tab 4

# Proficiency with Similar Services/Projects



Tab 4

# Proficiency with Similar Services/Projects

*Hazen has extensive continuing services contract experience in Florida. This experience includes planning, design, permitting, funding assistance, and management and oversight for the construction of municipal utilities projects.*

Category	Project Name	Design	Permitting	Construction	Potable Water, Wastewater, Reclaimed	Cost Estimating	Civil	Structural	Mechanical	Electrical/Instrumentation/SCADA	Environmental	Geological/Hydrogeological	Geotechnical	Mapping/Survey	Biological/Ecological	Value Engineering
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Continuing Professional Consultant /</li> <li><span style="color: teal;">●</span> Engineering Services</li> <li><span style="color: green;">●</span> City of North Port, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓				
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Miscellaneous Utility Engineering</li> <li><span style="color: teal;">●</span> Services Contract</li> <li><span style="color: green;">●</span> Lee County, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Naples Professional Services</li> <li><span style="color: teal;">●</span> Libraries</li> <li><span style="color: green;">●</span> City of Naples, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Utility Engineering Library Services</li> <li><span style="color: teal;">●</span> Sarasota County, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓				✓	✓		
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Small Utility and Engineer-of-Record</li> <li><span style="color: teal;">●</span> Contracts</li> <li><span style="color: green;">●</span> City of Sarasota, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Engineering Library</li> <li><span style="color: teal;">●</span> City of Venice, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> City Engineer Services</li> <li><span style="color: teal;">●</span> City of Arcadia, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> General Consulting Services</li> <li><span style="color: teal;">●</span> City of Tampa, Florida</li> </ul>		✓	✓	✓	✓	✓	✓	✓	✓	✓						
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Plant City Potable Reuse Pilot</li> <li><span style="color: teal;">●</span> City of Plant City, Florida</li> </ul>		✓			✓	✓										
<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Gasparilla Island Water Association</li> <li><span style="color: teal;">●</span> Engineering Services</li> <li><span style="color: green;">●</span> Boca Grande, Florida</li> </ul>		✓			✓	✓	✓	✓	✓			✓				

- = Category 1, Water, Wastewater, & Reclaimed Water Treatment and Storage Systems
- = Category 2, Water, Wastewater, & Reclaimed Water Conveyance Systems
- = Category 3, Water, Wastewater, & Reclaimed Water Planning

1021-682

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

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

20. EXAMPLE PROJECT KEY NUMBER

**1**

21. TITLE AND LOCATION *(City and State)*

**Continuing Professional Consultant / Engineering Services  
North Port, Florida**

**Categories 1, 2, and 3**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

**2020**

CONSTRUCTION *(If applicable)*

**Varied**

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

**City of North Port, Florida**

b. POINT OF CONTACT NAME

**Ms. Cindi Mick  
Utilities Director (Retired)**

c. POINT OF CONTACT TELEPHONE NUMBER

**(941) 716-0985**

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

**Cost**

\$250,000 (fee)

**Description**

Hazen provided general engineering assistance to the City of North Port over the years, from 2006 to 2020. Over the duration of multiple contracts, Hazen assisted the City with several projects in variety of disciplines primarily associated with the City's water system. A representative listing of projects is provided below.

- Water utility master plan update
- Activated carbon slurry feed system
- Regulatory assistance
- Cross connection control ordinance assistance
- MIT testing for deep injection wells WTP improvements
- Review & Update Vulnerability Assessment
- Cranberry Waterline Relocation
- Evaluation of new wellfield for compliance with EPA Groundwater Rule
- Water Use Permit Renewal
- Chemical Improvements at Myakkahatchee Creek WTP
- US 41 Corridor Study (Subconsultant to WaterMark)
- Directional Drill under Myakkahatchee Creek for reject concentrate to WWTP

Hazen updated the City's water utility master plan, which included review of the existing service area and annexed areas for service, review of the City's developer agreements and updates to the City's water demand projections. This effort also included hydraulic modeling of the water distribu-

tion system within the existing service areas and proposed developments. We also developed a list of recommended improvements to the City's water system complete with budgetary cost estimates.

Hazen also designed a new powdered activated carbon delivery system to replace the existing carbon system that currently uses manual hoisting of 50 lb bags of carbon into a slurry tank. In addition, we helped the City update their utilities emergency management plan as part of the regulatory assistance. Regulatory assistance includes tasks related to:

- Grease Trap Ordinance
- Backflow Prevention Program Assistance
- Neighborhood Improvement Program Coordination
- Assistance with developing protocols for handling water quality issues (e.g. bacterial analysis, flushing, disinfection)
- Preparation of Consumer Confidence Reports
- Update Utility Ordinance and Permit Process
- Permit tracking and coordination of developer agreements
- Prepare applications and over site for Cooperative Funding Projects
- Assistance with emergency management issues and updates to Utility Emergency Operations Book
- Other Items as requested.

Hazen also worked closely with the City to develop a cross-connection control ordinance and workshops to review the ordinance.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	<b>Hazen and Sawyer</b>	<b>Tampa, Florida</b>	<b>Primary Consultant</b>
b.	<b>Hazen and Sawyer</b>	<b>Sarasota, Florida</b>	<b>Primary Consultant</b>

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

20. EXAMPLE PROJECT KEY NUMBER  
**2**

21. TITLE AND LOCATION <i>(City and State)</i> <b>Miscellaneous Utility Engineering Services Contract</b> <b>Lee County, Florida</b>  <b>Categories 1, 2 and 3</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION <i>(If applicable)</i> <b>Ongoing</b>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>Lee County, Florida</b>	b. POINT OF CONTACT NAME <b>Talya Bickle, PE, PMP</b> <b>Engineering Operations Manager</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>(239) 533-8504</b>

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

**Status**

This contract is ongoing.

**Cost**

\$1.15 million (estimated fee-to-date, since 2007)

**Description**

Lee County Utilities (LCU) water, wastewater and reclaimed water general engineering services.

A representative sampling of projects awarded under multiple contract reselections include:

**Fort Myers Beach Water Reclamation Facility Cost Estimating:** Hazen was responsible for the development of cost estimates on an expedited basis to support the County's request for FEMA reimbursement for damage to the existing plant associated with Hurricane Ian, as well as updates to the Master Plan cost estimate for expansion of the facility to include upgrade elements, damage from Ian, as well as potential future resiliency improvements.

**Fiesta Village WWTP RM Upgrade and Deep Injection Well & FMB WWTP Deep Injection Well #2:** The project involved construction administration of surface facility improvements at both the Fiesta Village and Fort Myers Beach WRFs associated with the 14-mgd, 3,000-foot-deep injection well and 5-mile-long, 24-inch-diameter reuse transmission main project. Construction elements included new vertical turbine effluent transfer pump stations at both sites as well as extensive large-diameter on-site piping and valving and electrical facilities.

**Corkscrew WTP High Service Pump Replacement:** LCU required replacement of two of the four high service pumps at their Corkscrew Water Treatment Plant (WTP). Hazen provided engineering design services to replace the existing pumps, variable speed drives, and all associated piping, electrical, and control systems interfacing with the pumps. The design and construction was completed on schedule and within the approved budget. Design included modifications for the existing low voltage 480V power distribution gear, arc flash study for improvements made, and grounding for new motors and drives.

**Fort Myers Beach and Fiesta Village WWTF Influent Screen Replacement:** LCU required replacement of the influent mechanical screens at their Fort Myers Beach and Fiesta Village WWTPs. Hazen provided engineering design and bidding services to develop a performance specifica-

tion and associated drawings to replace the existing screens with upgraded technology to provide dry, clean, odorless screenings in as much as possible. Construction was completed in 2011 with both screens meeting all the performance criteria for percent removal, dryness of product, and minimal biosolids content of the captured screenings. In addition, the performance-based bid approach reduced the cost of the project by \$300,000 by increasing competition while maintaining a minimum level of performance. The systems at both plants were placed in service on schedule and within engineering budget.

**Three Oaks WWTP Reuse System**

**Augmentation:** LCU retained Hazen to provide utilities design services to provide reclaimed water augmentation to supplement demand during peak usage periods. The components of the design included a new well pump at the wastewater plant and at an abandoned water plant, pump replacements for four existing wells, new high service pump station at the abandoned water plant, new raw water from the station to the reclaimed water distribution system, and a new hypochlorite feed system. Design and construction was completed on schedule and within the approved budget.



**Fiesta Village WWTF Headworks Rehabilitation** LCU required rehabilitation work for the headworks at the Fiesta Village WWTP.

Hazen provided engineering design, bidding, and construction services analyze the extend of concrete repairs required and provide a design to rehabilitate the existing air assist grit removal system, provide new odor control, add a second automatic perforated plate screen, correct imbalance in the flow split from the headworks to the process trains, and provide RAS pumping improvements to split a portion of the flow to the headworks to decrease odor emissions. Construction was completed in 2013. The improvements were placed in service on schedule and within engineering budget.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Fort Myers, Florida</b>	(3) ROLE <b>Primary Consultant</b>
b.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Tampa, Florida</b>	(3) ROLE <b>Primary Consultant</b>
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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

20. EXAMPLE PROJECT KEY NUMBER

**3**

21. TITLE AND LOCATION *(City and State)*

**Professional Services Library  
Naples, Florida**

**Categories 1, 2 and 3**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

**Ongoing**

CONSTRUCTION *(If applicable)*

**Ongoing**

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

**City of Naples, Florida**

b. POINT OF CONTACT NAME

**Michelle Baines, PE  
Deputy Utilities Director**

c. POINT OF CONTACT TELEPHONE NUMBER

**(239) 213-4713**

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

**Status**

This contract is ongoing. Hazen has been reselected for consecutive terms since 2009.

**Cost**

\$1.2 million (est. fee-to-date over the duration of multiple contracts reselection)

**Description**

In 2009, Hazen began assisting the City in various environmental engineering and water resources projects. These include the development of the groundbreaking reclaimed water Aquifer Storage and Recovery (ASR) system. Additionally, Hazen has provided recent assistance in ensuring compliance with the revisions to the Lead and Copper Rule.

**Permit Modification and Consumptive Use Permit Conservation Extension:** Hazen, in collaboration with a subconsultant, led development and submission of applications to the SFWMD to increase the withdrawal of raw groundwater discharged into the Golden Gate canal supplemental water supply infrastructure system during high demand periods from 3- to 5-mgd as well as to receive a 10-year extension for the City's Consumptive Use Permit based on quantifiable water savings attributable to ongoing City water conservation efforts. Completion Date: Ongoing

**Lead and Copper Rule Revision Compliance Assistance – Phase 1:** Hazen is providing services related to historical records review, GIS data review, operations interviews and code compliance research as a first step towards complying with LCRR requirements. Completion Date: Ongoing

**Reclaimed/Surface Water Aquifer Storage and Recovery (ASR) System (Phase 1 and 2):** Phase I included preparation of a Water Use Permit (WUP) renewal application to secure existing supplies and permitting of an ASR test well through the Florida Department of Environmental Protection (FDEP). Hazen assisted with the continued implementation of Phase 2 of the reclaimed/surface water Aquifer Storage and Recovery (ASR) system, and provided design, permitting, construction, and testing of a second ASR well and two monitor wells. This unique reclaimed/surface water ASR system stores fresh and reclaimed water in a saline environment for later retrieval to meet irrigation demands. This system has pioneered the concept to successfully store and recover both reclaimed and surface water in waters containing more than 10,000 mg/L total dissolved solids. This multi-year program has been possible due in part by funding assistance from the Big Cypress Basin/South Florida Water Management District. Critical to funding was compliance with project milestones. Hazen assisted the

City on multiple efforts, all of which met schedules and enabled the City to secure their funding partnership goals. Completion Date: 02/2016



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	<b>Hazen and Sawyer</b>	<b>Fort Myers, FL</b>	<b>Primary Consultant</b>
b.	<b>Hazen and Sawyer</b>	<b>Tampa, FL</b>	<b>Primary Consultant</b>
c.			
d.			

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

20. EXAMPLE PROJECT KEY NUMBER

**4**

21. TITLE AND LOCATION <i>(City and State)</i> <b>Utility Engineering Library Services</b> <b>Sarasota County, Florida</b>  <b>Categories 1, 2 and 3</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION <i>(If applicable)</i> <b>Ongoing</b>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>Sarasota County, Florida</b>	b. POINT OF CONTACT NAME <b>Gene Allen</b> <b>Project Manager</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>(941) 861-0529</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**Status**

This contract is ongoing.

**Cost**

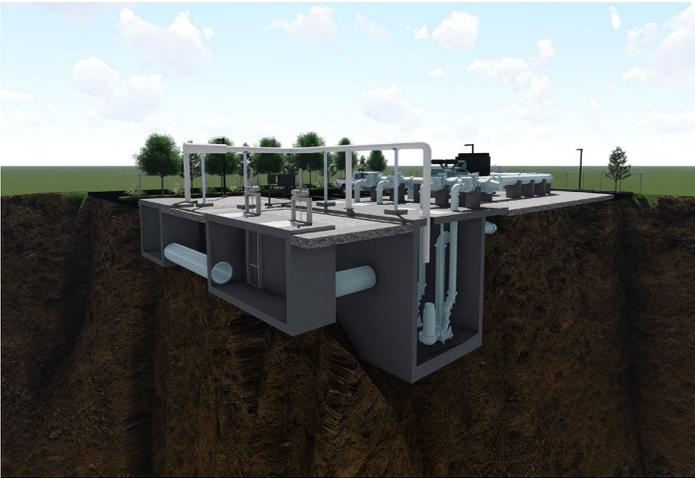
Various costs (see individual projects below)

**Description**

Hazen is providing general engineering services to Sarasota County under a current library contract. Example projects include:

**South Gate Master Pump Station (SGMPS) Phase I Improvements:**

Provided hydraulic modeling (SewerCAD) and preliminary design for SGMPS to assist County in evaluating improvements required to transfer flows from the Siesta Key AWWTP to a master lift station. Hazen provided detailed design, bidding, and construction management services for the project, which included new pumps, upsizing of gravity collection pipe, and new discharge header piping at the SGMPS. The project was completed on time and on budget. Duration: 01/2015-03/2021; Cost: \$199,000 (fee); \$2.8 million (construction)



**Lockwood Ridge Booster Pump Station (Permanent Site):**

Hazen provided hydraulic modeling, engineering design, and construction services for a permanent booster pump station which was required to boost wastewater flows to the Central County WRF collection system through the Lockwood Ridge Force Main from Siesta Key. This included preliminary and final design, permitting, bid assistance, SOP development, and services during construction. The project was completed on schedule and on budget. Duration: 09/2019-03/2021; Cost: \$250,000 (fee); \$1.5 million (construction)

**Water Main Assessment for Central County Solid Waste Complex:**

Haze prepared a feasibility study for expanding potable water service to Central County Solid Waste Complex, including modeling, route assessment, cost estimate, and permit review. Duration: 02/2020-08/2020; Cost: \$47,520 (fee)



**Philippi Creek Septic System Replacement Program Cost Update and Facilities Planning Document:**

Updated cost presented in 2014 Master Plan Update for remaining improvement areas and prepared facilities planning document for State Revolving Funds for areas anticipated to be constructed within the next five years. The plan was completed on schedule and has been approved by the State Clearing House. The County decided not to move forward with SRF funds in April 2019. Duration: 11/2017-04/2020; Cost: Decided not to move forward with SRF funds in April 2019.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Tampa, Florida</b>	(3) ROLE <b>Primary Consultant</b>
b.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Sarasota, Florida</b>	(3) ROLE <b>Primary Consultant</b>

**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 *(City and State)*

**Small Utility and Engineer-of-Record Contracts  
 Sarasota, Florida**

**Categories 1, 2 and 3**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

**Ongoing**

CONSTRUCTION *(If applicable)*

**Ongoing**

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

**City of Sarasota**

b. POINT OF CONTACT NAME

**Verne Hall  
 Director, Utilities Department**

c. POINT OF CONTACT TELEPHONE NUMBER

**(941) 263-6187**

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

**Status**

This contract is ongoing

**Cost**

\$2.3 million (est. fee-to-date)

**Description**

Hazen has been providing engineering assistance on small utility projects for City of Sarasota since 2012. Projects under this continuing consulting engineering services contracts include construction of new and/or rehabilitation, relocation, or replacement of existing potable and raw water, wastewater, and reclaimed water related infrastructure, such as, but not limited to, lift stations, pump stations, wells, and related appurtenances.

**WRF Permit Renewal:** Prepared permit renewal application for WRF which incorporated discharge from DIW to EQ tank as backup.

**Reclaimed Water Evaluation:** This project included preliminary evaluation of City parks and nearby areas for utilization of reclaimed water, including estimations of piping distances from reclaimed water main, estimated usage, and cost.

**LS 89 and Force Main Improvements:** Hazen provided design, permitting, bidding, and construction services for replacing 190 lf of 3-inch cast iron force main and pumps at the Van Wezel Performing Arts Center (VWPAC), including replacement of the pipe using horizontal directional drilling and a new receiving manhole on the existing gravity wastewater main.

**Bayfront Park Force Main Replacement:** Hazen provided design, permitting, bidding and construction services for replacement of approximately 1,000 lf of 3-inch cast iron force main with a new 4-inch HDPE pipeline, which was installed via open cut and horizontal directional drill through Bayfront Park and Marina.

**Potable Water System Hydraulic Model:** This project included development and calibration of a hydraulic model in WaterCAD for the City's potable water system, including the RO WTP, two booster pump stations, two elevated storage tanks, and over 300 miles of transmission and distribution piping, along with assorted valves, meters, and hydrants.

**Lift Station 66 and Other Improvements:** Hazen provided design and permitting assistance for replacement of LS 66 with a new capacity of 250 gpm and also included a new 4-inch force main, new 8-inch gravity collection piping, new oil/water separator, new canopy system at the garbage truck washdown area, and associated structural, electrical and instrumentation improvements.

**St. Armand's Water Main Replacement:** Hazen provided engineering design, permitting and construction services for the replacement and relocation of approximately 1,000 lf of water main ranging from 6 to 16 inches which was constructed utilizing the Construction Management at Risk method.

**Verna Water Supply Filtration System:** Hazen provided pilot testing and prepared basis of design to assess potential taste and odor treatment technologies for the Verna wellfield supply to evaluate various technologies based on treatment effectiveness, footprint, and cost.

**Revenue Sufficiency Analysis:** This analysis was performed to verify that utility rates are sufficient based on cost, growth and demands, including a projection of operating expenses required to be funded from water and wastewater rates for a five-year forecast period to assist the City in developing various funding strategies based on prioritizing the capital improvement plan in order to develop cost recovery strategies that will be acceptable to the Commissioners.



Hazen has been working with the City of Sarasota since 2012.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	<b>Hazen and Sawyer</b>	<b>Tampa, Florida</b>	<b>Primary Consultant</b>
b.	<b>Hazen and Sawyer</b>	<b>Sarasota, Florida</b>	<b>Primary Consultant</b>
c.	<b>Hazen and Sawyer</b>	<b>Raleigh, North Carolina</b>	<b>Primary Consultant</b>

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

20. EXAMPLE PROJECT KEY NUMBER

**6**

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

21. TITLE AND LOCATION *(City and State)*

**Engineering Library  
Venice, Florida**

**Categories 1, 2, and 3**

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
**Ongoing**

CONSTRUCTION *(If applicable)*  
**Ongoing**

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

**City of Venice, Florida**

b. POINT OF CONTACT NAME

**Javier Vargas  
Utility Director**

c. POINT OF CONTACT TELEPHONE NUMBER

**(941) 882-7309**

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

**Status**

This contract is ongoing.

**Cost**

\$1.2 million (est. fees-to-date)

**Description**

As part of the engineering library, Hazen has performed several assignments for the City of Venice in the areas of potable water, wastewater, and reclaimed water systems including the following:

**Eastside Water Reclamation Facility (EWRf) Transfer Pump Design, Bidding, and Construction Services:** Hazen provided preliminary design and detailed design efforts for replacing the transfer pumps at the EWRf. The facility includes three 75-hp transfer pumps with a design capacity of approximately 11,000 gpm. However, Hazen performed field testing and a hydraulic evaluation and verified the station only had a capacity of around 8,000 gpm. Hazen assessed multiple options for cost-effective pump replacement and the ability to increase capacity to 12,000 gpm and provide n+1 redundancy. Hazen performed detailed design, including pre-purchase coordination for the vertical turbine pumps and check valves due to long lead times, as well as permitting and bidding services. Completion Date: 2024. Cost: \$260,000 (fee); \$1.2 million (construction)

**SRF Monitoring Compliance Monitoring:** Hazen has been providing SRF compliance monitoring for various projects to ensure all requirements are being met including on-site inspections and verification that Davis-Bacon, American Iron and Steel, Buy American – Build American, E-Verify, MBE/WBE for various water, wastewater, and stormwater projects. Currently, Hazen is assisting on WTP generator/switchgear improvements, new booster pump station, new water supply well, ASR well and new force main under the intercoastal waterway. Completion Date: Ongoing. Cost: \$547,116 (fee)

**Permitting Assistance:** Hazen is currently providing ongoing assistance with evaluation of various options and providing summary reports to FDEP to reduce nutrient loads into ICWW from the Venice Reverse Osmosis WTP. Completion Date: Ongoing. Cost: \$280,000 (fee)

**Facilities Use Plan Update:** Hazen recently updated the City's Facilities Planning Documents for Drinking Water, Wastewater, and Stormwater Improvements for SRF Funding. In addition, Hazen provided updates to the Facilities Planning documents as new projects came online which will be funded through SRF. Completion Date: 2023. Cost: \$140,000 (fee)

**Eastside WRF Odor Control Design Support Services:** Hazen provided engineering support services associated with design of ductwork, supports, concrete penetrations, and equipment pad for biological trickling filter purchased from a third party. Completion Date: 2023. Cost: \$49,676 (fee).

**SRF Monitoring Phase VI Water Main Replacement Project:** Hazen provided monitoring for SRF compliance during construction of the Live Oak Stormwater Improvements project. Completion Date: 2020. Cost: \$39,473 (fee).



**Professional Services for FY2019 Development Review:** Hazen provided as-needed engineering reviews of utility submittals for development within the City to verify compliance with City Codes, Florida Administrative Code, City interest, acceptable design practices, and constructability. Completion Date: 2020. Cost: \$80,000 (fee)

**Septic Tank Elimination Evaluation:** Hazen investigated options to eliminate approximately 50 remaining septic systems in the City's service area. The best options and associated costs were evaluated for the residences and businesses to connect to the existing wastewater collection system. Completion Date: 2019. Cost: \$100,000 (fee)

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Tampa, Florida</b>	(3) ROLE <b>Primary Consultant</b>
b.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Sarasota, Florida</b>	(3) ROLE <b>Primary Consultant</b>

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

20. EXAMPLE PROJECT KEY NUMBER

**7**

21. TITLE AND LOCATION *(City and State)*

**City Engineer Services  
Arcadia, Florida**

**Categories 1, 2 and 3**

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
**Ongoing**

CONSTRUCTION *(If applicable)*  
**Ongoing**

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER  
**City of Arcadia, Florida**

b. POINT OF CONTACT NAME  
**Lee Snyder  
Utilities Director**

c. POINT OF CONTACT TELEPHONE NUMBER  
**(863) 254-8646**

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

**Status**

This contract is ongoing.

**Cost**

\$5 million (est. fees to date); \$10.8 million (est. construction)

**Description**

Hazen has been acting as the City Engineer since 2006. Key projects include:

**Sanitary Sewer Collection System and Wastewater Improvements - Phase I:** Hazen performed a detailed City-wide Sanitary Sewer Evaluation Study (SSES) which included assessment of entire gravity collection system including CCTV evaluation, survey, GIS mapping, development of alternatives for reduction of infiltration/inflow into the system, recommendation of improvements and preparation of Facilities Planning Document for SRF funding. The evaluation included recommendations for three phases of improvements. Phase I included the rehabilitation/replacement of 11 pump stations, replacement of approximately 5,200 LF of sanitary sewer, and improvements to the influent pump station and controls. This project was funded with a combination of FDEP SRF grants and loans totaling over \$22 million and will be completed in three phases.

**Sanitary Sewer Collection System and Water Distribution Improvements - Phase 2:** Hazen provided funding assistance in addition to preparing plans and specifications with survey of over 25,000 LF of sanitary sewer improvements, including rehabilitation and replacement, and 40,000 LF of water distribution improvements. Construction is currently in progress and Hazen is providing construction engineering oversight.

**Trickling Filter Media - Design and Construction Services:** Hazen provided a specifications package, bidding, and limited construction services for replacing trickling filter media at the WWTP.

**Lincoln Park Water and Wastewater Replacement Project:** Hazen prepared design documents and provided Florida Department of Economic Opportunity Community Development Block Grant funding assistance for the replacement and/or rehabilitation of approximately 10,000 LF of water mains and 7,000 LF of sanitary sewers. In addition, Hazen assisted the City with engineering construction services.



**Water System Improvements Planning and Design:** Hazen prepared facilities planning documents, plans, and specifications for a new water supply test well and water main replacements in conjunction with sanitary sewer improvements.

**Golf Course Pond - Design and Construction Services:** Hazen provided administration, design plans, specifications, bidding, and construction services for a reclaimed water storage pond at the City's golf course funded by an SWFWMD cooperative funding grant.

**Water Treatment Plant and Water Supply Well:** Project included design and construction services for a new water treatment plant and other facilities including a maintenance building, new access road, stormwater piping and pond, and rehabilitation of all existing wells.

**Water and Sewer Replacement and Relocation for US 17 Water and Sewer Improvements:** Project associated with FDOT road widening of US 17 including the development of design documents for approximately 5,500 LF of water line relocation and 2,000 LF of gravity sewer along US 17 and other roadways.

**Bridle Path Subdivision Water and Wastewater Main Replacement:** Prepared design documents and provided construction assistance for the replacement of water and gravity wastewater mains, stormwater infrastructure and roadways.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	<b>Hazen and Sawyer</b>	<b>Tampa, Florida</b>	<b>Primary Consultant</b>
b.	<b>Hazen and Sawyer</b>	<b>Orlando, Florida</b>	<b>Primary Consultant</b>
c.	<b>Hazen and Sawyer</b>	<b>Raleigh, North Carolina</b>	<b>Primary Consultant</b>
d.	<b>Hazen and Sawyer</b>	<b>Sarasota, Florida</b>	<b>Primary Consultant</b>

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <span style="font-size: 24pt; font-weight: bold;">8</span>
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<b>21. TITLE AND LOCATION (City and State)</b> <b>General Consulting Services</b> <b>Tampa, Florida</b>  <b>Categories 1, 2 and 3</b>	<b>22. YEAR COMPLETED</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">PROFESSIONAL SERVICES <b>Ongoing</b></td> <td style="width:50%; text-align: center;">CONSTRUCTION (If applicable) <b>Ongoing</b></td> </tr> </table>	PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (If applicable) <b>Ongoing</b>
PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (If applicable) <b>Ongoing</b>		

23. PROJECT OWNER'S INFORMATION		
<b>a. PROJECT OWNER</b> <b>City of Tampa</b>	<b>b. POINT OF CONTACT NAME</b> <b>Rory Jones</b> <b>Chief Design Engineer</b>	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> <b>(813) 231-5291</b>

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

**Status**

This contract is ongoing.

**Cost**

\$920,000 (fee to date)

**Description**

Hazen has been one of the City's general engineering services consultants since 2002. Under this contract, services can be provided to the City for its water, wastewater, and stormwater utility groups. Hazen has been renewed for these services continuously over the years, most recently in 2020.

Brief descriptions of the projects that have been completed under this contract are provided below

**Howard F. Curren AWTP Gravity Thickener and Sludge Pump Replacement:** Hazen designed replacement of the thickener mechanisms, replacement of the pumps with screw centrifugal type pumps, and coordination of new pumps and controls with the existing VFDs and plant monitoring system.

**Howard F. Curren AWTP Dewatering System Evaluation and Pilot Testing:** Hazen conducted pilot testing of dewatering and polymer activation technologies to be used as the basis for design for sludge dewatering process improvements, including centrifuge, belt filter press, screw press, and rotary fan press.

**David L. Tippin WTP Chemical Feed System Improvements:** The City retained Hazen to modify the chlorine and ammonia feed system and replace all chemical piping associated with the sodium hydroxide feed system and chlorine gas system storage and evaporator system.

**Howard F. Curren AWTP Grit Separation Equipment Replacement:** Hazen was selected for the complete replacement of the plant's grit separation equipment to provide more efficient grit removal to resolve issues with unacceptable grit buildup in downstream process tankage.

**Wastewater Collection System SCADA/Telemetry Upgrades:** Hazen performed an assessment of the City's wastewater collection system's radio telemetry system, and as a result of this evaluation, the existing obsolete base station and operator workstations will be replaced.

**David L. Tippin WTP Residuals Dewatering Improvements and Evaluation:** Hazen conducted pilot testing and evaluation of dewatering technologies to be used as the basis for design for the residuals dewatering process improvements, including centrifuge, belt filter press, and screw press.



Pilot testing of dewatering technologies included centrifuge, belt filter press, screw press, and rotary fan press.

**Work Order 4797, Water Main Replacement:** This project included the replacement of 7,400 LF of existing water mains along many avenues and streets south of downtown Tampa with a minimum size of 8-inch piping and included addition of fire hydrants, blow-off stations, isolation valves, and re-connection of existing services along the pipeline route.

**Work Order 4793, Water Main Replacement:** This project included the replacement of 7,400 LF of existing water mains along many avenues and streets south of downtown Tampa with a minimum size of 8-inch piping and included addition of fire hydrants, blow-off stations, isolation valves, and re-connection of existing services along the pipeline route.

**Lake Kipling Stormwater Improvements:** Hazen designed stormwater interceptors for two outfall pipes that drain into Lake Kipling, a 2.1-acre tidally-influenced lake located in South Tampa.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

<b>a.</b> (1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION (City and State) <b>Tampa, Florida</b>	(3) ROLE <b>Primary Consultant</b>
<b>b.</b> (1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION (City and State) <b>Sarasota, Florida</b>	(3) ROLE <b>Primary Consultant</b>
<b>c.</b> (1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION (City and State) <b>Boca Raton, Florida</b>	(3) ROLE <b>Primary Consultant</b>

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

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION <i>(City and State)</i> <b>Plant City Potable Reuse Pilot</b> <b>Plant City, Florida</b>  <b>Categories 1, 2 and 3</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2023</b>	CONSTRUCTION <i>(If applicable)</i> <b>N/A</b>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>City of Plant City, Florida</b>	b. POINT OF CONTACT NAME <b>Lynn Spivey</b> <b>Utilities Director</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>(813) 757-9288</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

**Status**

Study Completed 11/2023

**Cost**

\$600,000 (fee; does not include the cost of pilot equipment)

**Description**

Plant City (FL) selected Hazen to lead a potable reuse pilot test and feasibility study. The pilot system includes membrane filtration, reverse osmosis, and UV advanced oxidation. The system is designed to evaluate the feasibility, costs, and benefits of direct and indirect potable reuse under current and potential future regulatory conditions.

The City is evaluating alternatives to develop an indirect potable reuse project concept to utilize at least 1.5 million gallons per day (mgd) of reclaimed water to develop new potable water supply through aquifer recharge. The project will verify treatment of reclaimed water through pilot testing to simulate full-scale treatment.

This pilot study is a component of the McIntosh Park Integrated Water Management Plan, which is collaborative City project between Parks & Recreation and Utilities to enhance park recreational opportunities and provide water supply and flood protection to a dynamically changing region of Plant City. Over 350 acres of park lands provide a unique opportunity for the City to increase public access to the preserve and to restore hydrologically impacted wetlands, improve flooding conditions, and beneficially reuse high-quality reclaimed water. These efforts also enable optimization of previous public investments through the expansion of wetlands to increase the storage capacity and provide additional water quality improvements to downstream receiving systems.

The project scope also includes groundwater modeling to simulate aquifer recharge, UIC permitting assessment, public information assistance, and assessment of the technical, financial, and regulatory feasibility of a full-scale system.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Tampa, FL</b>	(3) ROLE <b>Primary Consultant</b>
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

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

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

20. EXAMPLE PROJECT KEY NUMBER

**10**

21. TITLE AND LOCATION <i>(City and State)</i> <b>Gasparilla Island Water Association Engineering Services Boca Grande, Florida</b>  <b>Categories 1 and 2</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2025</b>	CONSTRUCTION <i>(If applicable)</i> <b>N/A</b>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>Gasparilla Island Water Association</b>	b. POINT OF CONTACT NAME <b>Ron Bolton, Executive Director</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>(941) 964-2423</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

**Size**

The Gasparilla Island Water Association (GIWA) WRF is currently a contact stabilization/extended aeration domestic wastewater treatment facility permitted for 0.705-mgd annual average daily flow (AADF) with peak flows of 2.115 mgd. The WRF serves about 6,254 residents on Gasparilla Island and the Boca Grande Causeway.

**Cost**

\$94,600 (fee)

**Description**

The GIWA WRF is presently in construction for a major upgrade to convert the facility to Membrane Bioreactor (MBR) technology. As part of construction, fine (2 mm) rotary drum screens were installed to protect the downstream MBR process. GIWA has experienced issues related to these now existing screens and therefore requested Hazen and Sawyer (Hazen) to provide a Preliminary Engineering Report (PER) for screening and pumping upgrades to the WRF.

As part of the analysis, Hazen was asked to evaluate multiple improvements to the WRF including:

- **Coarse Screening** - It was noted that the recently installed 2 mm drum screens (fine screens) have experienced blinding, causing the screens to be bypassed. GIWA desires to add coarse screens upstream of the fine screens to provide assurance of screening prior to the biological treatment process should the fine screens be taken out of service.
- **Sludge Holding Tank** - A dedicated sludge holding tank is desired for the facility. Use of the existing DAVCO steel tank (which is currently used as the WRF's biological treatment train) and new tanks for equalization and/or sludge holding will be evaluated.
- **Master Lift Station** - The two existing influent force mains tie directly into a 12-inch diameter DI force main before entering the headworks. It is desired to intercept this force main upstream of the headworks and direct them to a new MLS.
- **Yard Piping** - Yard piping changes associated with the WRF improvements were considered.
- **Administration Building** - A new on-site administration building is desired. Rehabilitation of the existing administration building versus construction of a new building will be evaluated at a concept level, including consideration for placement of a new building above the existing structure.

The facilities evaluated were then separated into near-term recommendations and potential future WRF improvements.



After analyzing the influent flow, rainfall, rotary screen blinding and bypass data, along with input from Operations staff, it was concluded that screen blinding and bypass events have been historically caused by operation of the rotary fan press, Plant Service Water (PSW) piping failing, and startup of the collection system after hurricanes. As such, and due in part to the capital and O&M cost associated with a new unit process, coarse screening is not seen as the immediate priority for the facility. The near-term improvements consist of emergency influent equalization, sludge holding, and piping modifications. Emergency influent equalization for the facility would provide a benefit in cases when the existing screens might experience issues.

In considering solutions for the facility, it was agreed to attempt to leverage existing assets to the degree practical to minimize cost while providing benefit to operations. Therefore, the concept was initially to repurpose the existing DAVCO steel-ring extended aeration step feed plant to provide for both emergency influent and sludge equalization as part of the near term recommended improvements for the facility. The DAVCO unit served as one of the two existing biological process tanks and would become obsolete after startup of the new biological treatment tanks and MBR facilities. Due to the existing condition of the tank and potential rehabilitation costs was ultimately decided to recommend two new 56,000-gallon glass-fused-to-steel bolted tankage for both emergency influent equalization and sludge holding. The estimated cost of the proposed near-term recommendations including the two new glass-fused-to-steel bolted tanks and new PSW piping is approximately \$2 million.

The PER also includes conceptual design for potential future improvements including:

- A new influent Master Lift Station and associated coarse screening
- A new administration and laboratory building
- MBR tank overflow piping

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a. (1) FIRM NAME <b>Hazen and Sawyer</b>	(2) FIRM LOCATION <i>(City and State)</i> <b>Fort Myers, Florida</b>	(3) ROLE <b>Primary Consultant</b>
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**G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS**

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Glenn "Tad" Rogers III, PE, ENV SP, CCCA	Project Manager/Client Manager	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holly Kremers, PE, ENV SP	Project Director	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Paul Biscardi, PhD, PE	Potable Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Andrew Coleman, PE	Potable Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jacob Porter, PE, BCEE, DBIA	Wastewater/Reclaimed Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Pacifici, PE	Pump Stations/Pipelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
John Schroeder, PE, BCEE	WW Collection/SSES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
George Brown, PE	Pump Stations/Pipelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Andre Dieffenthaler, PE, DBIA	QA/QC / Technical Advisor; Planning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stephanie Ishii, PhD, PE, ENV SP	Master Planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Crystal Broadbent, PE	Hydraulic Modeling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Erik Rosenfeldt, PhD, PE	QA/QC / Technical Advisor; Potable Water Treatment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carlyn Higgins, PhD, PE	Potable Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Savannah Mika, PE	Potable Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Daniel Schmidt, PE	QA/QC / Technical Advisor; Wastewater/Reclaimed Water Treatment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Caryssa Joustra, PhD, PE	Wastewater/Reclaimed Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jeffrey Rosman, PE	Wastewater/Reclaimed Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samantha Lemaster, PE	Wastewater/Reclaimed Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sean FitzGerald, PE, PACP	QA/QC / Technical Advisor; Conveyance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Demaree, PE	Pump Stations/Pipelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**29. EXAMPLE PROJECTS KEY**

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Continuing Professional Consultant / Engineering Services City of North Port, Florida	6	Engineering Library City of Venice, Florida
2	Lee County Miscellaneous Utility Engineering Services Contract Lee County, Florida	7	City Engineer Services City of Arcadia, Florida
3	Professional Services Libraries City of Naples, Florida	8	General Consulting Services City of Tampa, Florida
4	Utility Engineering Library Services Sarasota County, Florida	9	Plant City Potable Reuse Pilot City of Plant City, Florida
5	Florida Small Utility and Engineer-of- Record Contracts City of Sarasota, Florida	10	Gasparilla Island Water Association Engineering Services Boca Grande, Florida

**G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS**

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Fernando Alvarado, PE	Pump Stations/Pipelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alicia Mata, PE	WW Collection/SSES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dhara Mody, EI	WW Collection/SSES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kylee Kavanagh, EI	WW Collection/SSES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Josefin Hirst, PE	Master Planning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Troy Walker, MIE (Aust)	Master Planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jorge Calabria, PE	Master Planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Saheb Mansour-Rezaei, PhD, PE	Hydraulic Modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ethan Hypes, PE	Hydraulic Modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Bannett, PE, LEED AP	Civil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nestor Sotelo, PE, BCEE	Civil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jean Paul Silva, PE	Structural	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adarsh Shah, PE	Structural	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Witte, PE	Mechanical/HVAC/Plumbing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Linda Diebolt	Environmental	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
John Cameron, PE	Electrical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keff Kurella, PE	Electrical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robert Bolesta	Construction Management/CEI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Travis Bains, CSHO	Construction Management/CEI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ryan McKenna, PE	Odor Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**29. EXAMPLE PROJECTS KEY**

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Continuing Professional Consultant / Engineering Services City of North Port, Florida	6	Engineering Library City of Venice, Florida
2	Lee County Miscellaneous Utility Engineering Services Contract Lee County, Florida	7	City Engineer Services City of Arcadia, Florida
3	Professional Services Libraries City of Naples, Florida	8	General Consulting Services City of Tampa, Florida
4	Utility Engineering Library Services Sarasota County, Florida	9	Plant City Potable Reuse Pilot City of Plant City, Florida
5	Florida Small Utility and Engineer-of- Record Contracts City of Sarasota, Florida	10	Gasparilla Island Water Association Engineering Services Boca Grande, Florida

**G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS**

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Jason Johnson	CADD/BIM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gerrit Bulman, PG	Hydrogeological	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Angela Giuliano, PG	Hydrogeological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Julie Karleskint, PE	Permitting/Regulatory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evan Curtis, PE	Instrumentation and Controls/SCADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amal Yelkur, EI, CDT	Instrumentation and Controls/SCADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rose Jesse, CPE	Cost Estimation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sharon Simington	Funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Baar, PE	Constructability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boris Sladojevic	GIS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
William Russell, RA, AIA, LEED AP	Architecture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tim Ware, PE	Utility/Asset Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**29. EXAMPLE PROJECTS KEY**

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Continuing Professional Consultant / Engineering Services City of North Port, Florida	6	Engineering Library City of Venice, Florida
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3	Professional Services Libraries City of Naples, Florida	8	General Consulting Services City of Tampa, Florida
4	Utility Engineering Library Services Sarasota County, Florida	9	Plant City Potable Reuse Pilot City of Plant City, Florida
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Tab 5

# Project Control/ Approach



## Section 5

# Project Control/Approach

*Hazen’s project delivery method includes development of a collaborative relationship with City staff to define key objectives and develop clear project deliverables for each assigned project to ensure project success.*

### Project Understanding

It is understood that the City desires to contract with select engineering firms to address aspects of services necessary for City utilities projects. The projects are anticipated to be varied but related to water, wastewater and reclaimed water planning, treatment, storage, and conveyance. The Hazen team has ample expertise and experience in the planning, design, permitting and construction oversight for the various tasks anticipated under this contract. Assignments under this contract may include any aspect of water, wastewater, and reclaimed water treatment and storage systems; water, wastewater, and reclaimed water conveyance systems; and water, wastewater, and reclaimed water planning projects—all disciplines that Hazen is well suited to efficiently deliver.

Hazen’s proven approach to managing this contract for the City of North Port has been shaped by continuous improvement over decades of experience throughout the region, as well as our proposed Project Manager’s extensive experience in leading similar continuing contracts. **Hazen understands that this contract directly supports the City’s mission of providing exceptional municipal services in a fiscally responsible manner and commits to acting as an extension of the City to address any and all needs that may arise over the life of this contract.**

### Project Management Approach

We understand that task order assignments come in various shapes and sizes, and we will adapt our project delivery approach accordingly. A large assignment may get a full project work plan, whereas a small assignment may entail a simpler approach to relaying relevant details to the project team. Additionally, on smaller assignments, the Project Manager may be the one to execute the assignment, keeping our team small and focused, and keeping engineering costs down. We understand the value of soliciting and incorporating pertinent input from all stakeholders into the scope and along the way of each assignment; regular communication is the key to success. Further, our rigorous QA/QC methodology is conscientiously applied to every project, regardless of size, complexity, or schedule.

Our Project Manager, **Tad Rogers, III, PE, ENV SP, CCCA** will be responsible for management of all tasks under this contract and for coordinating with our Project Director, **Holly Kremers, PE, ENV SP**, to ensure that the most qualified staff are involved. When assigned a task order, Mr. Rogers will work with the City to understand the project scope and define key drivers, which will allow



**We have staff available to provide the complete range of services required for the duration of this contract** and will incorporate the City’s projects into our workload projections upon project scoping.

**Effective communication with all members of a project team, especially the client, are critical to success.** I am committed to serving the City on this project and being a part of your team as we work to develop solutions. I am available to you seven days a week, and take pride in my availability and rapid response time.”  
**Glenn “Tad” Rogers III, PE, ENV SP, CCCA**  
Project Manager

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for selection of the appropriate Task Order Manager and/or Technical Lead from our overall team. In this way, we will leverage our deep bench of staff to support multiple projects in parallel while addressing both the technical aspects and management responsibilities of all projects. Through careful balancing of workload, assignment of key staff and regular project team meetings, we will complete all tasks under this contract in a timely manner.

## Project Approach



## Quality Control Approach

Mr. Rogers will also develop a QA/QC Plan to make sure that each project has appropriate input and review to maintain our high standard of quality. QC reviews will occur ahead of each milestone submittal and are tracked across the firm through quarterly reporting and auditing. This places QA/QC responsibility on Hazen’s staff and not the City, ensuring the highest quality deliverables. **Mr. Rogers served as a Regional Quality Coordinator for five years, and is intimately familiar with the firm’s policies and best practices.** He will maintain contact with the City’s Project Manager and provide the City with monthly status reports for all projects assigned. He will also provide direction to the project team and coordinate and monitor the activities of the support disciplines, in line with the overall project approach illustrated below.



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## Monitoring Schedule, Risk and Cost

A key element of effective project management is proactive monitoring of project schedule, identification and tracking of potential project risks, and control of project cost. The following sections discuss our approach to managing these key project objectives.

### Schedule Adherence

To ensure that schedules are met, project schedules are developed along with the project scope and updated to reflect the notice to proceed date immediately following its issuance for each work order. For lengthy and complex projects, a detailed project schedule will be developed in Microsoft Project.

The project schedule details the steps to complete the project utilizing a critical path methodology. Using scheduling software provides a time management tool to better track progress of the project in real time. These types of scheduling techniques are tailored to the complexity of the project and reporting preferences of our clients. Mr. Rogers and Ms. Kremers will be responsible for ensuring that all projects remain on schedule and within budget.

### Risk Mitigation

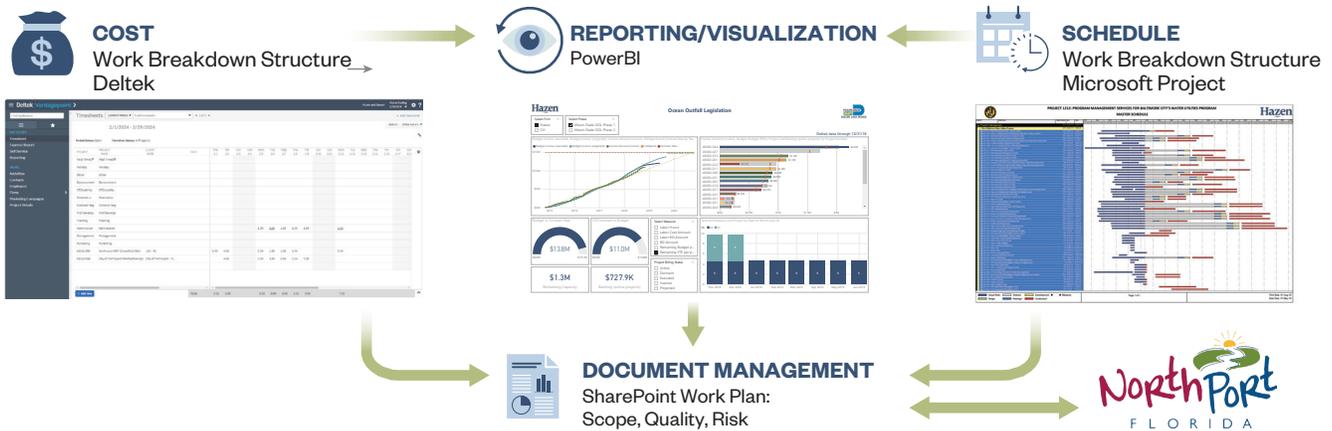
Identifying potential project risks and developing appropriate mitigation measures early in the project development cycle will allow us to avoid potential project delays or other unforeseen pitfalls. Depending on the assignment, this is accomplished by developing a risk register including input from all stakeholders on a given project. Risks can

vary from large considerations such as capital improvement project (CIP) budget availability to differences in opinions from various stakeholders which could impact overall design schedule. Certain risks will likely be identified during the scoping phase but others may arise over the course of the project life cycle. To that end, the risk register is a dynamic document and should be periodically reviewed and updated, typically at milestone deliverables.

### Budget Control

We will initiate our projects using Work Breakdown Structure practices to clearly define tasks, schedules, and budgets. Hazen is committed to cost control in all phases of the project. This commitment is supported by effective design management, construction cost management, and an estimating group committed to highly accurate estimates. Mr. Rogers, with the designated Task Order Manager and/or Technical Lead for that assignment, will closely monitor the progress of each activity to identify issues that could negatively impact the budget and/or schedule, and if issues arise, develop a corresponding corrective action plan. We will provide the City with monthly progress reports and use Deltek Vantagepoint to provide rapid and accurate, real-time accounting of project labor, subcontractors, and other expenditures. These project data facilitate keeping the project on schedule and on budget. We also use reporting visualization tools such as Power BI® to track progress schedule and budget. These tools can be used for communication and reporting to the City.

## Work Plan



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**Below are examples of recent projects that were delivered to the client within budget and on schedule.**

Client	Project	Within Budget	On Schedule
City of Naples	Lead and Copper Rule Revision Compliance Assistance (ongoing)	✓	✓
City of Naples	Permit Modification and Consumptive Use Permit Conservation Extension	✓	✓
Lee County	Fiesta Village WRF Five-mile-long 24-inch-diameter Reuse Transmission Main and 14-mgd, 3,000-foot Deep Injection Well	✓	✓
Lee County	Fort Myers Beach WRF Opinion of Probable Construction Cost	✓	✓
Lee County	Fort Myers Beach WRF Belt Press Replacement (design complete, construction ongoing)	✓	✓
City of Venice	State Revolving Fund (SRF) Assistance	✓	✓
City of Sarasota	Lift Station No. 89 Improvements	✓	✓
Sarasota County	Phillippi Creek Master Plan Update	✓	✓

### Current Workload

Should we be selected for this contract, we commit that the individuals identified on our organizational chart will be available to the City of North Port. Hazen strives to maintain a well-balanced workload, which allows our staff to be appropriately allocated to projects, but not overly committed, so they have the ability to provide first-class service to our existing clients and the flexibility to take on new assignments and opportunities with our clients. To achieve these goals, Hazen has a conservative approach of only undertaking new assignments when workload permits and adequate staff is available to provide the complete range of services required, and for the expected duration of the project.

Mr. Rogers will maintain regular communications with the City. Through this communication, we will be able to anticipate required resources and proactively plan staff assignments. Should unforeseen circumstances occur, and project acceleration is required, our team has the necessary support and backup staff at all levels with experience in all disciplines required.

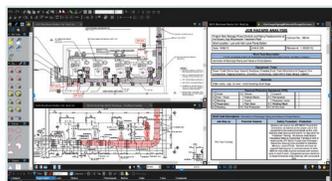
### Available Facilities, Technological Capabilities, and Other Available Resources

Hazen has the personnel, resources, facilities, and equipment to perform and successfully complete the projects that will be awarded under this continuing services contract. We have over 200 staff members located in our nine Florida offices and in-house expertise in all of the major disciplines noted in the RFP. We also have the capacity to draw upon nearly 2,000 firm-wide staff members, if necessary.



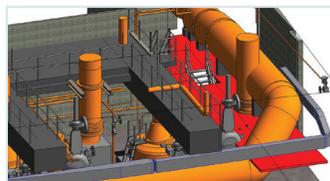
#### Power BI

*Hazen embraces the use of Power BI for project specific dashboards and reports with real time information to inform project status.*



#### Bluebeam®

*We use Bluebeam throughout the life of a project, from preliminary design and into construction, allowing all team members to efficiently collaborate on deliverables.*



#### BIM

*Hazen embraces the use of the BIM model facilitating coordination across various disciplines.*



#### Tablets

*We use tablets extensively in the field. All project information is available to our staff in the field in real time.*

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Tab 6

# References





RELEVANCE

- Category 1: Treatment and Storage Systems
- Category 2: Conveyance Systems
- Category 3: Planning
- Cost estimating
- Survey, design and construction management
- Value engineering services

## Miscellaneous Engineering Services Contract Lee County, FL

Since 2007, Hazen has supported Lee County and completed multiple task orders for water, wastewater, and reclaimed water engineering under this continuing services agreement. Key projects include:

### Fort Myers Beach and Fiesta Village WWTF Influent Screen Replacement:

Hazen provided engineering design, bidding, and construction services to develop a performance specification and associated drawings to replace the existing screens at these two plants with upgraded technology to provide dry, clean, odorless screenings in as much as possible. Both screens met all the performance criteria for percent removal, dryness of product, and minimal biosolids content of the captured screenings. In addition, the performance-based bid approach reduced the cost of the project by \$300,000 by increasing competition while maintaining a minimum level of performance. The systems at both plants were placed in service on schedule and within engineering budget. Completion Date: 2024. Cost: \$160,000 (fee); \$600,000 (construction cost).

### Three Oaks WWTP Reuse System Augmentation:

Hazen provided design, bidding, and construction services to provide reclaimed water augmentation for the existing reclaimed water system at this facility. The components of the design included four new well pumps and motor replacements, two new supply wells and pump, a new booster pump station and retrofit of an existing storage tank as well as new valves, electrical, telemetry, and

instrumentation for the wells. Completion Date: 2015. Cost: \$197,000 (fee); \$2.7 million (construction cost).

### Cork Screw WTP High Service Pump Replacement:

Hazen provided engineering design, bidding, and construction services to replace the existing pumps, their variable speed drives, and all associated piping, electrical, and control systems interfacing with the pumps. The design was completed on schedule and within the approved budget. Completion Date: 2010. Cost: \$29,900 (fee); \$393,000 (construction cost).

### Waterway Estates WWTP Evaluation:

The County identified the need for increased wastewater treatment capacity to their Waterway Estates WWTP in their 2005 wastewater master plan and considered multiple options for expansion.

Hazen provided the County with an unbiased review of the options already developed, compared these to reasonable alternatives not already identified, and presented a final recommendation for wastewater handling capacity for the Waterway Estates service area. The recommendations were found acceptable and were implemented by the County. Completion Date: 2010. Cost: \$63,000 (fee); construction cost N/A.

### Client Reference

Lee County Utilities  
1500 Monroe Street,  
3rd Floor  
Ft. Myers, FL 33902  
Talya Bickle, PE, PMP  
Engineering Operations  
Manager  
(239) 533-8504  
tbickle@leegov.com

### Project Duration

2007–present

### Project Cost

\$1.15 million  
(est. fee-to-date)

### Engineer’s Opinion of Probable Construction Cost/Final Construction Cost

Varies by assignment since this is a continuing services contract. Assignments awarded are generally planning and/or bid-design-build projects. Information provided in individual project descriptions, if available.



RELEVANCE

- Category 1: Treatment and Storage Systems
- Category 2: Conveyance Systems
- Category 3: Planning
- Cost estimating
- Value engineering services
- Preparation of permit renewals and other regulatory submittals

## Professional Services Libraries

### City of Naples, FL

Since 2009, Hazen has assisted the City with various environmental engineering, water resources, and civil engineering needs. Key projects include:

**Lead and Copper Rule Revision Compliance Assistance:** During Phase 1 of the project Hazen provided services related to historical records review, GIS data review, operations interviews and code compliance research as initial efforts for creating the initial service line inventory. Phase 2 of the project included the submission of all required October 2024 LCRR deliverables to FDEP including the initial LSL inventory and service line replacement plan. This Phase also currently includes preparing and implementing a service line material identification program which includes customer surveys and field visual inspections to confirm unknown service line materials. Ongoing efforts are currently towards developing the 2027 Lead and Copper Rule Improvements (LCRI) deliverables. Completion Date: Ongoing. Cost: \$292,000 (fee); construction cost N/A.

**Permit Modification and Consumptive Use Permit Conservation Extension:** Hazen, in collaboration with a subconsultant, led development and submission of applications to the SFWMD to increase the withdrawal of raw groundwater discharged into the Golden Gate canal supplemental water supply infrastructure system during high demand periods from 3- to 5-mgd as well as to receive a 10-year extension for the City’s Consumptive Use

Permit based on quantifiable water savings attributable to ongoing City water conservation efforts. Completion Date: 2024. Cost: \$20,400 (fee); construction cost N/A.

**Reclaimed/Surface Water Aquifer Storage and Recovery (ASR) System (Phase 1 and 2):** Phase I included preparation of a Water Use Permit renewal application to secure existing supplies and permitting of an ASR test well through the Florida Department of Environmental Protection. Hazen assisted with the continued implementation of Phase 2 of the reclaimed/surface water ASR system, and provided design, permitting, construction, and testing of a second ASR well and two monitor wells. This unique reclaimed/surface water ASR system stores fresh and reclaimed water in a saline environment for later retrieval to meet irrigation demands. This system has pioneered the concept to successfully store and recover both reclaimed and surface water in waters containing more than 10,000 mg/L total dissolved solids. This multi-year program has been possible due in part by funding assistance from the Big Cypress Basin/South Florida Water Management District. Hazen assisted the City on multiple efforts, all of which met schedules and enabled the City to secure their funding partnership goals. Completion Date: 2016. Cost: \$172,000 (fee); construction cost N/A.

#### Client Reference

City of Naples  
 380 Riverside Circle  
 Naples, FL 34102  
 Michelle Baines, PE  
 Deputy Utilities Director  
 (239) 213-4713  
 mbaines@naplesgov.com

#### Project Duration

2009–present

#### Project Cost

\$1.2 million  
 (est. fee-to-date)

#### Engineer’s Opinion of Probable Construction Cost/Final Construction Cost

Varies by assignment since this is a continuing services contract. Assignments awarded are generally planning and/or bid-design-build projects. Information provided in individual project descriptions, if available.



RELEVANCE

- Category 1: Treatment and Storage Systems
- Category 2: Conveyance Systems
- Category 3: Planning
- Cost estimating
- Value Engineering

## Utility Engineering Library Services Sarasota County, FL

Since 1999, Hazen has been providing general engineering services to Sarasota County under utility engineering library contracts. Key projects include:

**Lockwood Ridge Booster Pump Station (Permanent Site):** Hazen provided hydraulic modeling, engineering design, and construction services for a permanent booster pump station which was required to boost wastewater flows to the Central County WRF collection system through the Lockwood Ridge Force Main from Siesta Key. This included preliminary and final design, permitting, bid assistance, SOP development, and services during construction. The project was completed on schedule and on budget. Completion Date: 2021. Cost: \$250,000 (fee); \$1.5 million (construction).

**Philippi Creek Septic System Replacement Program Cost Update and Facilities Planning Document:** Hazen prepared the original Master Plan and acted as Program Manager through 2005. The project involved expanding the wastewater utility and reducing the number of homes served by septic tanks. In 2014, Hazen updated this plan and presented to the County Commission, which included an updated evaluation of wastewater transmission, pumping technologies, and costs.

In 2018, Hazen made further updates to the Master Plan for remaining improvement areas and prepared a facilities planning document for State Revolving Funds for areas anticipated to be constructed within five years. The plan was completed

on schedule and has been approved by State Clearing House. Completion Date: 2020. Cost: \$143,000 (fee); construction cost N/A.

**Water Main Assessment for Central County Solid Waste Complex:** Hazen prepared a Feasibility Study for expanding potable water service to Central County Solid Waste Complex, including modeling, route assessment, cost estimate, and permit review. Completion Date: 2020. Cost: \$47,520 (fee); construction cost N/A.

**Meadow GC RCW Master Plan:** Hazen prepared a master plan including modeling to determine options for expanding reclaimed water system to provide additional water to the Meadows Golf Course. Completion Date: 2018. Cost: \$50,000 (fee); construction cost N/A.

**Legacy Trail Utility Relocation:** Hazen provided engineering design, FDOT coordination, permitting, bidding, and construction assistance for relocation of water and wastewater transmission mains (6 inches to 30 inches) along Laurel Road for construction of new Legacy Trail Pedestrian Bridge. The engineering design completed on time and within budget, but the project was extended due to rebidding and delays by the contractor. Completion Date: 2018. Cost: \$150,000 (design); \$1 million (construction).

### Client Reference

Sarasota County  
1001 Sarasota Center Blvd.  
Sarasota, FL 34240  
Gene Allen  
Project Manager  
(941) 861-0529  
goallen@scgov.net

### Project Duration

1999–present

### Project Cost

\$1.15 million  
(est. fee-to-date)

### Engineer’s Opinion of Probable Construction Cost/Final Construction Cost

Varies by assignment since this is a continuing services contract. Assignments awarded are generally planning and/or bid-design-build projects. Information provided in individual project descriptions, if available.



RELEVANCE

- Category 1: Treatment and Storage Systems
- Category 2: Conveyance Systems
- Category 3: Planning
- Cost estimating
- Value Engineering
- Preparation of permit renewals and other regulatory submittals

## Small Utility and Engineer-of-Record Contracts City of Sarasota, FL

Since 2012, Hazen has performed a wide range of planning and design services for the City across these two contracts. Key projects include:

**WRF Permit Renewal:** The City of Sarasota Utilities Department owns and operates an existing 10.2 mgd Annual Average Daily Flow, Type I Modified Bardenpho advanced domestic wastewater treatment facility. Hazen prepared the permit renewal application for WRF which incorporated discharge from DIW to EQ tank as backup. Completion Date: 2021. Cost: \$65,750 (fee); construction cost N/A.

**Potable Water System Hydraulic Model:** This project included development and calibration of a hydraulic model in WaterCAD for the City’s potable water system, including the ROWTP, two booster pump stations, two elevated storage tanks, and over 300 miles of transmission and distribution piping, along with assorted valves, meters, and hydrants. Completion Date: 2020. Cost: \$195,000 (fee); construction cost N/A.

**Lift Station 66 and Other Improvements:** Hazen provided design and permitting assistance for replacement of LS 66 with a new capacity of 250 gpm and also included a new 4-inch force main, new 8-inch gravity collection piping, new oil/water separator, new canopy system at the garbage truck washdown area, and associated structural, electrical and instrumentation improvements. Completion Date: 2018. Cost: \$138,550 (fee); construction cost N/A.

**St. Armand’s Water Main Replacement:** Hazen provided engineering design, permitting, and construction services for the replacement and relocation of approximately 1,000 LF of water main ranging from 6 to 16 inches, which was constructed utilizing the Construction Management at Risk method. Completion Date: 2019. Cost: \$199,500 (fee); \$667,000 (construction cost).

**Verna Water Supply Filtration System:** Hazen provided pilot testing and prepared basis of design to assess potential taste and odor treatment technologies for the Verna wellfield supply to evaluate various technologies based on treatment effectiveness, footprint, and cost. Completion Date: 2018. Cost: \$140,000 (fee); construction cost N/A.

**Bayfront Park Force Main Replacement:** Hazen provided design, permitting, bidding and construction services for replacement of approximately 1,000 LF of 3-inch cast iron force main with a new 4-inch HDPE pipeline, which was installed via open cut and horizontal directional drill through Bayfront Park and Marina. Completion Date: 2016. Cost: \$58,000 (fee); \$153,000 (construction cost).

### Client Reference

City of Sarasota  
1750 12th Street  
Sarasota, FL 34239  
Verne Hall  
Director, Utilities  
Department  
(941) 263-6187  
verne.hall@sarasotafl.gov

### Project Duration

2012–present

### Project Cost

\$2.3 million  
(est. fee-to-date)

### Engineer’s Opinion of Probable Construction Cost/Final Construction Cost

Varies by assignment since this is a continuing services contract. Assignments awarded are generally planning and/or bid-design-build projects. Information provided in individual project descriptions, if available.



RELEVANCE

- Category 1: Treatment and Storage Systems
- Category 2: Conveyance Systems
- Category 3: Planning
- Cost estimating
- Value Engineering

## Engineering Library City of Venice, FL

In Since 2012, Hazen has been providing water, wastewater, planning, and permitting engineering services to the City of Venice under Engineering Library contracts. Key projects include:

**Eastside Water Reclamation Facility (EWRf) Transfer Pump Design, Bidding, and Construction Services:** Hazen provided preliminary design and detailed design efforts for replacing the transfer pumps at the EWRf. The facility includes three 75-hp transfer pumps with a design capacity of approximately 11,000 gpm. However, Hazen performed field testing and a hydraulic evaluation and verified the station only had a capacity of around 8,000 gpm. Hazen assessed multiple options for cost-effective pump replacement and the ability to increase capacity to 12,000 gpm and provide n+1 redundancy. Hazen performed detailed design, including pre-purchase coordination for the vertical turbine pumps and check valves due to long lead times, as well as permitting and bidding services. Completion Date: 2024. Cost: \$260,000 (fee); \$1.2 million (construction).

**SRF Monitoring Compliance Monitoring:** Hazen has been providing SRF compliance monitoring for various projects to ensure all requirements are being met including on-site inspections and verification that Davis-Bacon, American Iron and Steel, Buy American – Build American, E-Verify, MBE/WBE for various water, wastewater, and stormwater projects. Currently, Hazen is

assisting on WTP generator/switchgear improvements, new booster pump station, new water supply well, ASR well and new force main under the intercoastal waterway. Completion Date: Ongoing. Cost: \$547,116 (fee); construction cost N/A.

**Second Force Main Under I-75:** Hazen provided site evaluation and preliminary design services for a new 24-inch wastewater force main crossing under I-75, including the evaluation of alternative trenchless technologies and coordinating with FDOT. Hazen also performed detailed design, permitting, bidding, and construction phase services for the City. Bid phase efforts include pre-qualification of micro tunneling sub-contractors and evaluation of alternative project delivery methods. Completion Date: 2024. Cost: \$775,000 (fee); \$6.7 million (construction).

**Permitting Assistance:** Hazen is currently providing assistance with evaluation of various options and providing summary reports to FDEP to reduce nutrient loads into ICWW from the Venice RO WTP. Completion Date: Ongoing. Cost: \$280,000 (fee); construction cost N/A.

### Client Reference

City of Venice  
200 North Warfield Avenue  
Venice, FL 34285  
Javier Vargas  
Utility Director  
(941) 882-7309  
jvargas@venicegov.com

### Project Duration

2012–present

### Project Cost

\$1.2 million (est. fee-to-date)

### Engineer’s Opinion of Probable Construction Cost/Final Construction Cost

Varies by assignment since this is a continuing services contract. Assignments awarded are generally planning and/or bid-design-build projects. Information provided in individual project descriptions, if available.

**ATTACHMENT 3 - REFERENCES/CLIENT LISTING**

Include at least five (5) business related references for which they are currently providing or have provided within the last ten (10) years, services similar to the scope of services required by this RFP. A minimum of three (3) references must be for work performed in Florida.

1. Business/Customer Name: Lee County  
Name of Contact Person/Title: Talya Bickle, PE, PMP/Engineering Operations Manager  
Telephone# (239) 533-8504 E-mail tbickle@leegov.com  
Address 1500 Monroe Street, 3rd Floor, Fort Myers, FL 33902  
Project Lee County Miscellaneous Utility Engineering Services  
Duration of Contract or business relationship 2007-present Project completion date: Ongoing  
Type of Services Provided Master planning, design, permitting, bidding, construction mgt./admin., piping and pump station design.  
Cost of Project: Design \$1.15 million (fees to date) Construction: Varies by assignment
2. Business/Customer Name: City of Naples  
Name of Contact Person/Title: Michelle Baines, PE/Deputy Utilities Director  
Telephone# (239) 213-4713 E-mail mbaines@naplesgov.com  
Address 380 Riverside Circle, Naples, FL 34102  
Project City of Naples Professional Services Libraries  
Duration of Contract or business relationship 2009-present Project completion date: Ongoing  
Type of Services Provided General utilities engineering services, design and construction, permit modification, and LCRR compliance assistance.  
Cost of Project: Design \$1.23 million (fees to date) Construction: Varies by assignment
3. Business/Customer Name: Sarasota County  
Name of Contact Person/Title: Gene Allen/Project Manager  
Telephone# (941) 861-0529 E-mail goallen@scgov.net  
Address 1001 Sarasota Center Blvd., Sarasota, FL 34240  
Project Sarasota County Utility Engineering Library Services  
Duration of Contract or business relationship 1999-present Project completion date: Ongoing  
Type of Services Provided Studies, design, and permitting for water, reuse, & wastewater pipelines, and facility improvements.  
Cost of Project: Design \$1.15 million (fees to date) Construction: Varies by assignment

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

4. Business/Customer Name: City of Sarasota

Name of Contact Person/Title: Verne Hall /Director, Utilities Department

Telephone# (941) 365-2200, ext. 6187 E-mail verne.hall@sarasotafl.gov

Address 1750 12th Street, Sarasota, FL 34239

Project City of Sarasota Small Utilities and Public Works Infrastructure Projects and  
~~Phone Number~~ Engineer-of-Record Contracts

Duration of Contract or business relationship 2012-present Project completion date: Ongoing

Type of Services Provided New construction or rehabilitation of existing potable, raw water, wastewater, and reclaimed water infrastructure.

Cost of Project: Design \$2.3 million (fees to date) Construction: Varies by assignment

5. Business/Customer Name: City of Venice

Name of Contact Person/Title: Javier Vargas/Utility Director

Telephone# (941) 882-7309 E-mail jvargas@venicegov.com

Address 200 North Warfield Avenue, Venice, FL 34285

Project City of Venice Continuing Services Utility System Engineer of Record  
~~Phone Number~~

Duration of Contract or business relationship 2021-present Project completion date: Ongoing

Type of Services Provided Potable water, wastewater, & reclaimed water system projects, including the Water Treatment Plant Master Plan.

Cost of Project: Design \$415,800 (fees to date) Construction: Varies by assignment

COMPANY NAME: Hazen and Sawyer

SIGNATURE: 

THIS PAGE MUST BE SUBMITTED WITH PROPOSAL

**ATTACHMENT 4**  
**REFERENCE AND PERFORMANCE QUESTIONNAIRE VERIFICATION FORM**

**RFP 2025-12 Professional Utility Engineering Services – Continuing Services for City of North Port**  
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

<b>1. Contractor Information (Proposer information)</b>
<b>FIRM NAME:</b> Hazen and Sawyer
<b>ADDRESS:</b> 2256 First Street, Suite 131, Ft Myers, FL 33901
<b>Telephone number#:</b> (239) 788-9401
<b>E-mail:</b> grogers@hazenandsawyer.com
<b>Point of Contact</b> <u>Glenn "Tad" Rogers</u> <b>Contact Phone</b> <b>Number</b> <u>(239) 788-9401</u>
<b>2. Worked Performed as</b> <input checked="" type="checkbox"/> <b>Prime</b> <input type="checkbox"/> <b>Sub Contractor</b> <input type="checkbox"/> <b>Joint Venture</b> <input type="checkbox"/> <b>Other (Explain)</b> <b>Percent of project work performed</b> <u>85-90%</u> (estimated) <b>If Subcontractor, who was the prime (Name/Phone #)</b> <u>N/A</u>
<b>3. CONTACT INFORMATION</b> Contract Number: <u>CN230221CMR</u> (Current contract number)  Contract Type: <input type="checkbox"/> Firm Fixed Price <input type="checkbox"/> Cost Reimbursement <input checked="" type="checkbox"/> Other (please specify): <u>Continuing Services Contract</u>  Contract Title: <u>Lee County Miscellaneous Utility Engineering Services Contract</u>  Contract Location: <u>Lee County, Florida</u>  Award Date (mm/dd/yy) <u>09/08/2023</u> (most recent contract selections: 2018, reselected in 2023)  Actual Completion Date: <u>Contract ongoing</u>  Original Contract Price (Award Amount): <u>\$1.15 million since 2007 (estimated fee-to-date)</u>  Final Contract Price (to include all modifications, if applicable): <u>N/A; projects are awarded on a task-order basis for this ongoing contract.</u>  Explain the Difference: <u>N/A</u>
<b>4. PROJECT DESCRIPTION: Complexity of Work</b> <input checked="" type="checkbox"/> <b>HIGH</b> <input type="checkbox"/> <b>MED</b> <input type="checkbox"/> <b>ROUTINE</b> How is this project relevant to project submission?  Hazen has been providing continuing services to Lee County since 2007. Scope of work areas includes general utilities engineering and support services in the areas of water, wastewater, and reclaimed water. Services have included master planning, design, permitting, bidding, construction mgt./admin., wastewater process evaluation and design, and piping and pump station design.

<b>5. CLIENT INFORMATION</b>			
<b>Name:</b>	Talya Bickle, PE, PMP	<b>Title:</b>	Engineering Operations Manager
<b>Name of Entity:</b>	Lee County Utilities		
<b>Phone Number:</b>	(239) 533-8504	<b>E-Mail:</b>	
	tbickle@leegov.com		

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	<input type="checkbox"/> YES OR <input checked="" type="checkbox"/> NO
4. How long did the company/individual work for you?	Years: _____ Months: <u>18</u>
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	<u>10</u>
6. If the opportunity were to present itself, would you rehire this company? If no, please state why: _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
7. Date Questionnaire completed	(mm/dd/yy) <u>03/19/2025</u>

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages):\_

Contract referenced has been in effect only since 9/20/23, however Consultant has been doing work with the County for many many years. \_\_\_\_\_

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*Talya Bickle*

\_\_\_\_\_  
Signature

**INSTRUCTIONS:**

**PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.**

**IF THERE ARE UNFORESEEN CIRCUMSTANCES AND THE CLIENT CANNOT RETURN COMPLETED FORM DIRECTLY TO THE PROPOSER, COMPLETED FORMS MAY BE DIRECTLY SUBMITTED TO:**  
**[PURCHASING@NORTHPORTFL.GOV](mailto:PURCHASING@NORTHPORTFL.GOV) REFERENCING THE RFP #: 2025-12.**

**THE CITY RESERVES THE RIGHT TO VERIFY ANY AND ALL INFORMATION ON THIS FORM.**

**NOTE: IF COMPLETED REFERENCES ARE NOT RETURNED TO PURCHASING, IT MAY AFFECT THE EVALUATION RATING.**

**ATTACHMENT 4**  
**REFERENCE AND PERFORMANCE QUESTIONNAIRE VERIFICATION FORM**

**RFP 2025-12 Professional Utility Engineering Services – Continuing Services for City of North Port**  
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

<b>1. Contractor Information (Proposer information)</b>
<b>FIRM NAME:</b> Hazen and Sawyer
<b>ADDRESS:</b> 2256 First Street, Suite 131, Ft Myers, FL 33901
<b>Telephone number#:</b> (239) 788-9401
<b>E-mail:</b> grogers@hazenandsawyer.com
<b>Point of Contact</b> <u>Glenn "Tad" Rogers</u> <b>Contact Phone</b> <b>Number</b> <u>(239) 788-9401</u>
<b>2. Worked Performed as</b> <input checked="" type="checkbox"/> <b>Prime</b> <input type="checkbox"/> <b>Sub Contractor</b> <input type="checkbox"/> <b>Joint Venture</b> <input type="checkbox"/> <b>Other (Explain)</b> <b>Percent of project work performed</b> <u>90</u> % <b>If Subcontractor, who was the prime (Name/Phone #)</b> <u>N/A</u>
<b>3. CONTACT INFORMATION</b> Contract Number: <u>RFQ 24-001 (most recent contract number. Hazen has been reselected for consecutive terms since 2009.)</u> Contract Type: <input type="checkbox"/> Firm Fixed Price <input type="checkbox"/> Cost Reimbursement <input checked="" type="checkbox"/> Other (please specify): <u>Continuing Services Contract</u> Contract Title: <u>Naples Professional Services Libraries (Environmental Engineering &amp; Water Resources; Civil Engineering; Engineering)</u> Contract Location: <u>Naples, Florida</u> Award Date (mm/dd/yy) <u>2/2/2024 (current continuing services contract award date)</u> Actual Completion Date: <u>Ongoing</u> Original Contract Price (Award Amount): <u>\$1.23 million (estimated fee-to-date over the duration of the multiple continuing services contracts reselection)</u> Final Contract Price (to include all modifications, if applicable): <u>N/A; projects are awarded on a task-order basis for this ongoing contract.</u> Explain the Difference: <u>N/A</u>
<b>4. PROJECT DESCRIPTION: Complexity of Work</b> <input checked="" type="checkbox"/> <b>HIGH</b> <input type="checkbox"/> <b>MED</b> <input type="checkbox"/> <b>ROUTINE</b> How is this project relevant to project submission? Services Hazen has provided over multiple contract reselections with Naples since 2009 have included general utilities engineering services, hydrogeological design and construction services, permit modification and consumptive use permitting, and LCRR compliance assistance.

<b>5. CLIENT INFORMATION</b>			
<b>Name:</b>	<u>Michelle Baines, PE</u>	<b>Title:</b>	<u>Deputy Utilities Director</u>
<b>Name of Entity:</b>	<u>City of Naples</u>		
<b>Phone Number:</b>	<u>(239) 213-4713</u>	<b>E-Mail:</b>	
	<u>mbaines@naplesgov.com</u>		

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	<input type="checkbox"/> YES OR <input checked="" type="checkbox"/> NO
4. How long did the company/individual work for you? <small>(Glenn "Tad" Rogers has been our primary contact since 2023 on all City of Naples Utilities projects/ task orders that have been awarded to Hazen &amp; Sawyer)</small>	Years: <u>  2  </u> Months: _____
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	<u>  10  </u>
6. If the opportunity were to present itself, would you rehire this company? If no, please state why: _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
7. Date Questionnaire completed	(mm/dd/yy) <u>  03/17/25  </u>

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional

pages): The City of Naples Public Works Department continues to be impressed with Hazen & Sawyer's professionalism, responsiveness, and ability to consistently produce high quality work.  
Glenn "Tad" Rogers has done an excellent job as our primary contact, assembling a strong team of professionals to work on various City task orders/projects, and ensuring that the City continues to meet all regulatory deadlines.  
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*Michelle Baines*

Signature

**INSTRUCTIONS:**

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**ATTACHMENT 4**  
**REFERENCE AND PERFORMANCE QUESTIONNAIRE VERIFICATION FORM**

**RFP 2025-12 Professional Utility Engineering Services – Continuing Services for City of North Port**  
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

<b>1. Contractor Information (Proposer information)</b>
<b>FIRM NAME:</b> Hazen and Sawyer
<b>ADDRESS:</b> 2256 First Street, Suite 131, Ft Myers, FL 33901
<b>Telephone number#:</b> (239) 788-9401
<b>E-mail:</b> grogers@hazenandsawyer.com
<b>Point of Contact</b> <u>Glenn "Tad" Rogers</u> <b>Contact Phone</b> <b>Number</b> <u>(239) 788-9401</u>
<b>2. Worked Performed as</b> <input checked="" type="checkbox"/> <b>Prime</b> <input type="checkbox"/> <b>Sub Contractor</b> <input type="checkbox"/> <b>Joint Venture</b> <input type="checkbox"/> <b>Other (Explain)</b> <b>Percent of project work performed</b> <u>90</u> % ( estimate) <b>If Subcontractor, who was the prime (Name/Phone #)</b> <u>N/A</u>
<b>3. CONTACT INFORMATION</b> Contract Number: <u>24-31JS; 212091CB</u>  Contract Type: <input type="checkbox"/> Firm Fixed Price <input type="checkbox"/> Cost Reimbursement <input checked="" type="checkbox"/> Other (please specify): <u>Continuing Services Contract</u>  Contract Title: <u>Utility Engineering Library Services</u>  Contract Location: <u>Sarasota County, Florida</u>  Award Date (mm/dd/yy) <u>Multiple contracts since 1999</u>  Actual Completion Date: <u>Ongoing</u>  Original Contract Price (Award Amount): <u>\$1.15 million (est. fees-to-date since 2015)</u>  Final Contract Price (to include all modifications, if applicable): <u>N/A; this is an ongoing continuing services contract</u>  Explain the Difference: <u>N/A</u>
<b>4. PROJECT DESCRIPTION: Complexity of Work</b> <input type="checkbox"/> <b>HIGH</b> <input checked="" type="checkbox"/> <b>MED</b> <input type="checkbox"/> <b>ROUTINE</b> How is this project relevant to project submission? For this continuing services contract, Hazen has provided engineering services for projects within the utility work program consisting of studies, design, and permitting for all types of water, reuse and wastewater pipelines, facility improvements, lift station rehabilitation, pump station improvements, and repairs and upgrades to the County's three utility systems.



**5. CLIENT INFORMATION**  
**Name:** Gene Allen **Title:** Project Manager  
**Name of Entity:** Sarasota County, Florida  
**Phone** **Number:** (941) 861-0529 **E-Mail:**  
goallen@scgov.net

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____	<input type="checkbox"/> YES OR <input checked="" type="checkbox"/> NO
4. How long did the company/individual work for you?	Years: <u>15</u> Months: _____
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	<u>10</u>
6. If the opportunity were to present itself, would you rehire this company? If no, please state why: _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
7. Date Questionnaire completed	(mm/dd/yy) <u>03/21/25</u>

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages): Hazen and Sawyer staff has exhibited professionalism and a high quality of design/engineering for many county projects ranging from engineering analysis of pressure pipeline systems to large complex booster and wastewater pumping stations. Their work has been ontime and within approved budgets.  
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Signature

**INSTRUCTIONS:**

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**ATTACHMENT 4**  
**REFERENCE AND PERFORMANCE QUESTIONAIRRE VERIFICATION FORM**

**RFP 2025-12 Professional Utility Engineering Services – Continuing Services for City of North Port**  
It is the intent of the City of North Port to request proposals from experienced and qualified firms for professional engineering services for the City of North Port.

<b>1. Contractor Information (Proposer information)</b>
<b>FIRM NAME:</b> Hazen and Sawyer
<b>ADDRESS:</b> 2256 First Street, Suite 131, Ft Myers, FL 33901
<b>Telephone number#:</b> (239) 788-9401
<b>E-mail:</b> grogers@hazenandsawyer.com
<b>Point of Contact</b> <u>Glenn "Tad" Rogers</u> <b>Contact Phone</b> <b>Number</b> <u>(239) 788-9401</u>
<b>2. Worked Performed as</b> <input checked="" type="checkbox"/> <b>Prime</b> <input type="checkbox"/> <b>Sub Contractor</b> <input type="checkbox"/> <b>Joint Venture</b> <input type="checkbox"/> <b>Other (Explain)</b> <b>Percent of project work performed</b> <u>78</u> % (estimate) <b>If Subcontractor, who was the prime (Name/Phone #)</b> <u>N/A</u>
<b>3. CONTACT INFORMATION</b> Contract Number: <u>Bid 22-08BK; RFP #15-38DB</u>  Contract Type: <input type="checkbox"/> Firm Fixed Price <input type="checkbox"/> Cost Reimbursement <input checked="" type="checkbox"/> Other (please specify): <u>Continuing Services Contract</u>  Contract Title: <u>Small Utilities and Public Works Infrastructure Projects and Engineer-of-Record Contracts</u>  Contract Location: <u>City of Sarasota, Florida</u>  Award Date (mm/dd/yy) <u>2012</u>  Actual Completion Date: <u>Ongoing</u>  Original Contract Price (Award Amount): <u>\$2,342,000 (est. fees to date since 2012)</u>  Final Contract Price (to include all modifications, if applicable): <u>N/A; contract is ongoing.</u>  Explain the Difference: <u>N/A</u>
<b>4. PROJECT DESCRIPTION: Complexity of Work</b> <input type="checkbox"/> <b>HIGH</b> <input checked="" type="checkbox"/> <b>MED</b> <input type="checkbox"/> <b>ROUTINE</b> How is this project relevant to project submission? Hazen has been providing engineering assistance on small utility projects for City of Sarasota since 2012. Projects under this continuing consulting engineering services contracts include construction of new and/or rehabilitation, relocation, or replacement of existing potable and raw water, wastewater, and reclaimed water-related infrastructure, such as, but not limited to, lift stations, pump stations, wells, and related appurtenances.

<b>5. CLIENT INFORMATION</b>			
<b>Name:</b>	Verne Hall	<b>Title:</b>	Director, Utilities Department
<b>Name of Entity:</b>	City of Sarasota		
<b>Phone Number:</b>	(941) 365-2200 ext.6187	<b>E-Mail:</b>	
	verne.hall@sarasotafl.gov		

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	<input type="checkbox"/> YES OR <input checked="" type="checkbox"/> NO
4. How long did the company/individual work for you?	Years: <u>  13  </u>
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	Months: <u>      </u> <u>  10  </u>
6. If the opportunity were to present itself, would you rehire this company? If no, please state why: _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
7. Date Questionnaire completed	(mm/dd/yy) <u>  3-20-2025  </u>

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages): I have worked with engineers from Hazen & Sawyer for many years including before coming to work for the City of Sarasota and have always had successful outcomes in our projects.

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*Verne Hall*

Signature

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<b>1. Contractor Information (Proposer information)</b>
<b>FIRM NAME:</b> Hazen and Sawyer
<b>ADDRESS:</b> 2256 First Street, Suite 131, Ft Myers, FL 33901
<b>Telephone number#:</b> (239) 788-9401
<b>E-mail:</b> grogers@hazenandsawyer.com
<b>Point of Contact</b> <u>Glenn "Tad" Rogers</u> <b>Contact Phone Number</b> <u>(239) 788-9401</u>
<b>2. Worked Performed as</b> <input checked="" type="checkbox"/> <b>Prime</b> <input type="checkbox"/> <b>Sub Contractor</b> <input type="checkbox"/> <b>Joint Venture</b> <input type="checkbox"/> <b>Other (Explain)</b> <b>Percent of project work performed</b> <u>88</u> % (estimate) <b>If Subcontractor, who was the prime (Name/Phone #)</b> <u>N/A</u>
<b>3. CONTACT INFORMATION</b> Contract Number: <u>RFQ 3128-21 (most recent contract)</u>  Contract Type: <input type="checkbox"/> Firm Fixed Price <input type="checkbox"/> Cost Reimbursement <input checked="" type="checkbox"/> Other (please specify): <u>Continuing Services Contract</u>  Contract Title: <u>City of Venice Continuing Services Contract for Utility System Engineer of Record</u>  Contract Location: <u>Venice, FL</u>  Award Date (mm/dd/yy) <u>09/15/2021 (most recent contract; multiple contract reselections)</u>  Actual Completion Date: <u>Ongoing</u>  Original Contract Price (Award Amount): <u>\$415,800 (est. fees to date for current contract)</u>  Final Contract Price (to include all modifications, if applicable): <u>N/A; contract is ongoing.</u>  Explain the Difference: <u>N/A</u>
<b>4. PROJECT DESCRIPTION: Complexity of Work</b> <input type="checkbox"/> <b>HIGH</b> <input checked="" type="checkbox"/> <b>MED</b> <input type="checkbox"/> <b>ROUTINE</b> How is this project relevant to project submission? As one of the City of Venice's Continuing Services consultants, Hazen has participated on multiple projects in the areas of potable water, wastewater, and reclaimed water systems. A representative sampling of projects over the years include the Water Treatment Plant Master Plan, SRF Compliance Monitoring, Eastside WRF Transfer Pump Project, Second Avenue Force Main Under I-75, and Reclaimed Water Distribution System Improvements.

<b>5. CLIENT INFORMATION</b>			
<b>Name:</b>	<u>Javier Vargas</u>	<b>Title:</b>	<u>Utility Director</u>
<b>Name of Entity:</b>	<u>City of Venice</u>		
<b>Phone Number:</b>	<u>(941) 882-7309</u>	<b>E-Mail:</b>	<u>jvargas@venicegov.com</u>

PERFORMANCE EVALUATION	(CHECK) "YES" OR "NO"
1. Was the scope of work performed similar in nature?	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
2. Did this company have the proper resources and personnel by which to get the job done? If no, please describe: _____ _____ _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
3. Were any problems encountered with the company's work performance? If yes, please describe: _____ _____ _____	<input type="checkbox"/> YES OR <input checked="" type="checkbox"/> NO
4. How long did the company/individual work for you?	Years: <u>4</u> Months: _____
5. On a scale of 1 to 10, 10 being best, how would you rate the overall work performance, considering professionalism; final product; personnel; resources. Rate from 1 to 10. (10 being highest)	<u>10</u>
6. If the opportunity were to present itself, would you rehire this company? If no, please state why: _____	<input checked="" type="checkbox"/> YES OR <input type="checkbox"/> NO
7. Date Questionnaire completed	(mm/dd/yy) <u>03/27/25</u>

8. Please provide any additional comments pertinent to this company and the work performed for you (you may use additional pages): \_\_\_\_\_

Hazen and Sawyer displays a high-level of professionalism, knowledge, technicla expertise, project management skills,  
a continuous focus on client satisfaction and innovation. I do highly recomend this firm.

*Javier A. Vargas*

Signature

**INSTRUCTIONS:**

**PROPOSER WILL SEND THIS FORM TO EACH REFERENCED CLIENT LISTED ON ATTACHMENT 3. THE CLIENT IS TO COMPLETE THIS FORM AND RETURN DIRECTLY BACK TO THE PROPOSER. THE PROPOSER WILL SUBMIT THE COMPLETED FORM WITH THEIR PROPOSAL. IT IS THE PROPOSER'S RESPONSIBILITY TO OBTAIN AND SUBMIT ALL COMPLETED FORMS WITH THEIR PROPOSAL PACKAGE.**

**IF THERE ARE UNFORESEEN CIRCUMSTANCES AND THE CLIENT CANNOT RETURN COMPLETED FORM DIRECTLY TO THE PROPOSER, COMPLETED FORMS MAY BE DIRECTLY SUBMITTED TO:**  
**[PURCHASING@NORTHPORTFL.GOV](mailto:PURCHASING@NORTHPORTFL.GOV) REFERENCING THE RFP #: 2025-12.**

**THE CITY RESERVES THE RIGHT TO VERIFY ANY AND ALL INFORMATION ON THIS FORM.**

**NOTE: IF COMPLETED REFERENCES ARE NOT RETURNED TO PURCHASING, IT MAY AFFECT THE EVALUATION RATING.**

Tab 7

# Litigation and Insurance



## Tab 7

# Litigation and Insurance

*In the last 10 years, the Southeast Region of Hazen has been responsible for approximately \$8 billion worth of public works construction. Our litigation record (or lack thereof) is excellent.*

We also want to emphasize that Hazen is not wholly or partly self-insured. Hence, it is our insurer that bears the risk and not the client. As requested, the table below provides a summary and disposition of litigation in the last five years.

### Hazen and Sawyer Pending and Completed Lawsuits - Five Years

Case Name / Description	Date of Action; Date Closed; Outcome	Identification Number / Court
Ronald Valerio against Hazen and Sawyer, D.P.C., Eaton Electric, Inc. and Five Star Electric Corporation Mr. Valerio, an employee of contractor WDF, alleges an employee of an electrical contractor injured him at the Bowery Bay WWTP.	3/19/15; 06/10/20; Dismissed	Index No. 306522/14 Supreme Court of the State of New York, County of Bronx
Michael D'Amato and Josephine D'Amato vs. WDF Development, LLC, WDF, Inc., American Insurance Group, American Insurance Corporation, American International Group, Inc., Insurance Company of the State of Pennsylvania, "John Doe," Lasalle LaSalle & Dwyer, PC, Sean P. Dwyer, Leo Dudin, Anthony Colaizzi, and Hazen and Sawyer. Michael D'Amato an employee of the City of New York alleges he was caused to trip and fall as a result of the negligence of WDF Development, LLC.	9/30/20; 03/08/21; Dismissed	Index No. 157484/2020 Supreme Court of the State of New York, County of New York
Close Construction, LLC v. City of Riviera Beach Utility Special District, C Solutions, Mark Drummond v Hazen and Sawyer C Solutions, engineer for the City of Riviera Beach seeks indemnity from Hazen as its subcontractor.	11/9/20; 09/20/21; Dismissed	Case No. 16 CA 013117 MB-AF In the Circuit Court of the Fifteenth Judicial Circuit in and for Palm Beach County, Florida
The City of High Point, North Carolina v. Suez Treatment Solutions, Inc., Fidelity and Deposit Company of Maryland and CPPE Carbon Process & Plant Engineering, S.A. and Suez Treatment Solutions, Inc., v. Hazen and Sawyer, P.C. Suez, a contractor for the City of High Point, brought a third party suit against Hazen and Sawyer in connection with H&S' engineering design services for the City.	7/24/19; 05/18/22; Settled	Civil Action No. 1:19-cv-540 United States District Court for the Middle District of North Carolina
Marc Fodera against The City of New York, The New York City Department of Environmental Protection, The New York City Department of Sanitation and Northeast Remsco Construction, Inc. against Hazen & Sawyer, PC, Bidwell Environmental, LLC and Barbaro Electric Co. Inc Mr. Fodera, an employee of Barbaro Electric, alleges he tipped and fell on a drainpipe at the Gowanus Canal site.	7/26/17; 08/02/22; Settled	Index No. 511003/2015 Supreme Court of the State of New York, County of Kings

Case Name / Description	Date of Action; Date Closed; Outcome	Identification Number / Court
<p>Scott Baptiste and Elizabeth Baptiste against The City of New York and A.J. Pegno Construction Corp./Tully Construction Company Inc. a joint venture against Hazen and Sawyer, P.C., Malcolm Pirnie, Inc. Individually and Hazen and Sawyer, P.C./Malcolm Pirnie, inc., a joint venture</p> <p>Hazen and Sawyer is a third-party defendant brought into this claim by the Pegno/Tully joint venture. Pegno/Tully alleges that Hazen's inspection of the job site was negligent and contributed to a Scott Baptiste's alleged injury.</p>	<p>12/13/13; 9/7/23; Settled</p>	<p>Index No. 11654/09 Supreme Court of the State of New York, County of Kings</p>
<p>Darline S. Spenser v. McCormick, Time, et al (Hollywood class action)</p> <p>Hazen was named in a lawsuit filed by Ms. Spencer. The lawsuit did not contain any claims against the Firm. The court dismissed the lawsuit with prejudice.</p>	<p>12/18/23; 07/26/24; Dismissed</p>	<p>Case No. 23-62214-CIV-DAMIAN/Valle United States District Court, Southern District of Florida</p>
<p>Michael Patrick Corbett, Jr. and Lisa Corbett against Skanska USA, Inc., Hazen &amp; Sawyer, AECOM USA, Inc., and ARCADIS U.S., Inc</p> <p>Michael Corbett an employee of the City of New York alleges he contracted a bronchial infection while working at the Croton Filtration Plant from 2012 through February 2016.</p>	<p>2/15/19; Open</p>	<p>Index No. 21995/2019E Supreme Court of the State of New York, County of Bronx</p>
<p>Gregory Bowman against City of New York, Skanska-Picone, J.V. and Hazen and Sawyer.</p> <p>Gregory Bowman an employee of Ward Electric alleges he was struck by a cabinet unit at the 26th Ward WWTP.</p>	<p>11/13/19; Open</p>	<p>Index No. 159692/2019 Supreme Court of the State of New York, County of New York</p>
<p>Vincent Calcagno Jr., v. Capry Group, Inc., Delphi Plumbing &amp; Heating, Inc., Hazen and Sawyer, D.P.C., and the City of New York</p> <p>Vincent Calcagno, an employee of the City of New York alleges he was caused to trip and fall at the Rockaway Water Treatment Control Plant.</p>	<p>12/31/24; Open</p>	<p>Index No. 723420/2024 Supreme Court of the State of New York, County of Queens</p>

**Hazen and Sawyer's Certificate of Liability Insurance (Full size certificates can be found in Tab 9)**

**CERTIFICATE OF LIABILITY INSURANCE**

HAZESA-01 KBUITON

AGENCY CUSTOMER ID: HAZESA-01 KBUITON

COVERAGES:

- A Commercial General Liability** (Policy No. 7036845683, Effective 3/29/2025, Expires 3/29/2026)
  - Contractual Liability: \$1,000,000
  - Personal and Advertising Injury: \$1,000,000
  - Products-Completed Operations: \$2,000,000
- B Automobile Liability** (Policy No. 7036845635, Effective 3/29/2025, Expires 3/29/2026)
  - Any Auto: \$1,000,000
  - Owned Autos Only: \$1,000,000
  - Hired Autos Only: \$1,000,000
  - Non-Owned Autos Only: \$1,000,000
- C Professional Liability** (Policy No. AEH08231489, Effective 3/29/2025, Expires 3/29/2026)
  - Per Claim/Aggregate: \$1,000,000

**ADDITIONAL REMARKS SCHEDULE**

HAZESA-01 KBUITON

COVERAGES:

- A Commercial General Liability** (Policy No. 7036845683, Effective 3/29/2025, Expires 3/29/2026)
  - Contractual Liability: \$1,000,000
  - Personal and Advertising Injury: \$1,000,000
  - Products-Completed Operations: \$2,000,000
- B Automobile Liability** (Policy No. 7036845635, Effective 3/29/2025, Expires 3/29/2026)
  - Any Auto: \$1,000,000
  - Owned Autos Only: \$1,000,000
  - Hired Autos Only: \$1,000,000
  - Non-Owned Autos Only: \$1,000,000
- C Professional Liability** (Policy No. AEH08231489, Effective 3/29/2025, Expires 3/29/2026)
  - Per Claim/Aggregate: \$1,000,000

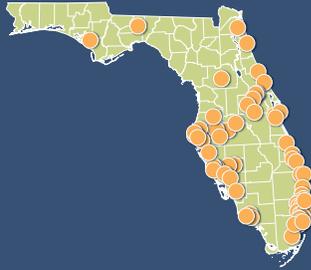
1021-682

Tab 8

# Additional Information



# Hazen and Sawyer Continuing Engineering Consulting Services Contracts



**Hazen has served as general consultant for more than 60 utilities in Florida.**  
Many of these utilities have retained us for multiple continuing contracts and long-standing, repeat assignments.

Our general consulting assignments include water, wastewater, stormwater, and reclaimed water projects, as well as general engineering; civil, environmental, mechanical, electrical, and water/wastewater engineering; construction/project management; and general planning. Below is a snapshot of this experience.

### Water Supply

Led the design and permitting of **more than 50 facilities** in Florida with an installed **capacity of over 1.5 billion gallons per day**



### Wastewater Treatment

Designed **1+ billion gallons per day of plant upgrades in the last 10 years** (cumulative capacity)

### Water Treatment

Designed **1+ billion gallons per day of plant upgrades** over the last 15 years (cumulative capacity)



### Water Distribution

Designed **more than 3.2 million linear feet** of water pipe larger than 6 inches in diameter

### Pumping Systems

Designed new or upgraded **more than 150 pump stations** throughout Florida



### Stormwater Management

Assisted many communities with **master planning for stormwater impacts**

### Resilience

Assisted many coastal communities with **planning for sea level rise and stormwater impacts**



### Asset Management

Physically assessed **more than 10,000 assets and 20 treatment plants** throughout Florida

### Construction Management

Oversaw construction of **more than \$8 billion in water infrastructure** over the past decade



### Effluent Disposal

Designed and oversaw construction of several **deep injection wells and ASR systems** along the Southwest Florida Gulf Coast

### Instrumentation

**Instrumentation & control system design and process optimization studies** on numerous projects since the firm's founding in 1951



### Reclaimed Water

Worked on reclaimed water projects at **24 facilities in Florida** and involved in Florida's regulation process for direct and indirect potable reuse

### Hydraulic Modeling

Modeling experience includes **2,000+ sewer lift stations and 4,000+ miles of water and force mains**



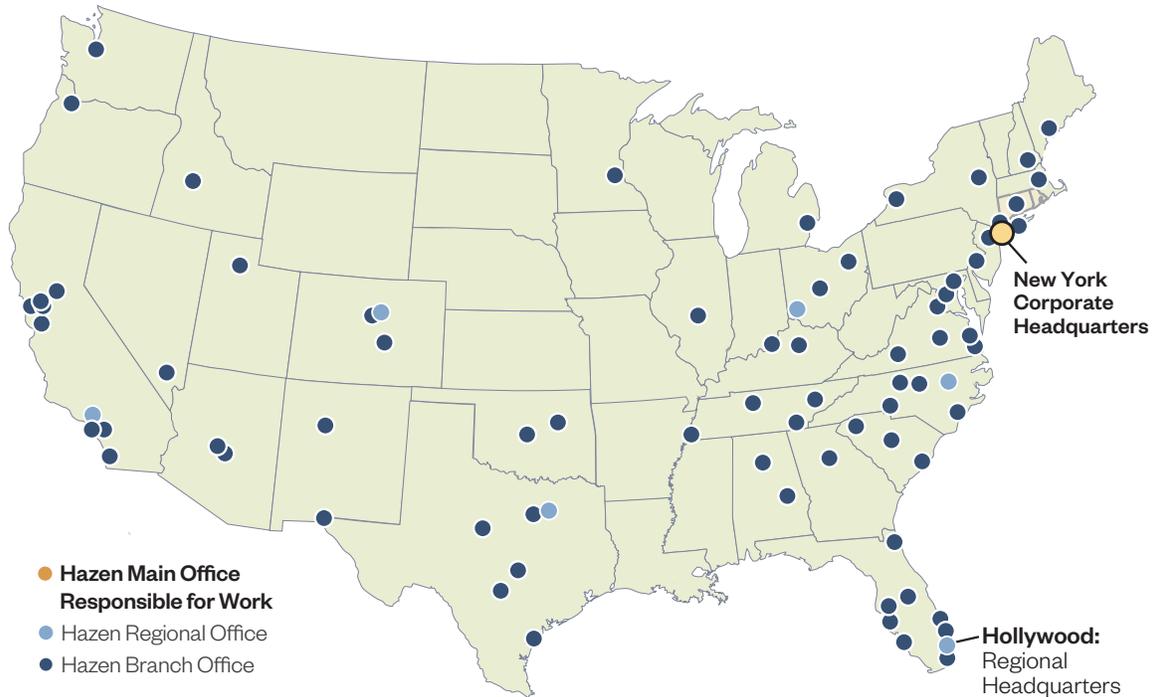
### Wastewater Collection

Provided I/I flow reduction and rehabilitation for **6,740+ miles of sewer**

1021-682

**Below is a listing of Hazen’s offices located throughout the United States.**

Our company headquarters is located in New York City. In Florida, Hazen has nine offices strategically located to provide full engineering services to our local clientele.



**Alabama**  
Auburn  
Birmingham

**Arizona**  
Goodyear  
Tempe

**California**  
Concord  
Irvine  
Los Angeles  
Riverside  
Sacramento  
San Diego  
San Francisco  
San Jose

**Colorado**  
Colorado Springs  
Denver  
Fort Collins  
Greenwood Village

**Connecticut**  
Wethersfield

**Florida**  
Boca Raton  
Coral Gables  
Fort Lauderdale  
Fort Myers  
Hollywood  
Jacksonville  
Orlando  
Sarasota  
Tampa

**Georgia**  
Athens  
Atlanta  
Savannah

**Idaho**  
Boise

**Illinois**  
Springfield

**Kentucky**  
Lexington  
Louisville

**Maine**  
Portland

**Maryland**  
Baltimore  
Silver Spring

**Massachusetts**  
Boston

**Michigan**  
Detroit

**Minnesota**  
St. Paul

**Nevada**  
Las Vegas  
Reno

**New Hampshire**  
Manchester

**New Jersey**  
Iselin

**New Mexico**  
Albuquerque

**New York**  
Buffalo  
Hicksville  
New York  
Saratoga Springs  
White Plains

**North Carolina**  
Charlotte  
Greensboro  
Raleigh  
Wilmington  
Winston-Salem

**Ohio**  
Cincinnati  
Cleveland  
Columbus

**Oklahoma**  
Oklahoma City  
Tulsa

**Oregon**  
Portland

**Pennsylvania**  
Philadelphia

**South Carolina**  
Charleston  
Columbia  
Greenville

**Tennessee**  
Chattanooga  
Knoxville  
Memphis  
Nashville

**Texas**  
Abilene  
Austin  
Corpus Christi  
Dallas  
El Paso  
Fort Worth  
San Antonio

**Utah**  
Salt Lake City

**Virginia**  
Charlottesville  
Fairfax  
Newport News  
Richmond  
Roanoke  
Virginia Beach

**Washington**  
Seattle

Tab 9

# City Required Forms



## REQUIREMENTS AND METHOD OF SUBMITTAL

**TAB 9 - CITY REQUIRED FORMS** – This checklist is provided to assist each Proposer in the preparation of their response. Included in this **checklist** are important requirements, which is the responsibility of each Proposer to submit with their response in order to make their response fully compliant. It is the responsibility of each Proposer to read and comply with the solicitation in its entirety.

**A. REQUIRED SUBMITTAL FORMS:** Provide fully executed forms.

- ATTACHMENT 1:** Proposal Submittal Signature Form
- ATTACHMENT 2:** Statement of Organization
- ATTACHMENT 3:** References/Client Listing (Refer to Tab 6)
- ATTACHMENT 4:** Reference and Performance Questionnaire Verification Form (Refer to Tab 6)
- ATTACHMENT 5:** Drug-Free Workplace
- ATTACHMENT 6:** Public Entity Crime Information
- ATTACHMENT 7:** Non-Collusive Affidavit
- ATTACHMENT 8:** Lobbying Certification
- ATTACHMENT 9:** Conflict of Interest Form
- ATTACHMENT 10:** Disclosure Form (Consultant/Engineer/Architect)
- ATTACHMENT 11:** Scrutinized Company Certificate
- ATTACHMENT 12:** Vendor's Certification For E-Verify System
- ATTACHMENT 13:** Certification Regarding Debarment, Suspension, and other Responsibility Matters
- ATTACHMENT 14:** Certification Regarding Lobbying – Federal
- ATTACHMENT 15:** Affidavit of Compliance Regarding Foreign Entity of Concern Laws
- ATTACHMENT 16:** Anti-Human Trafficking Affidavit
- SAMPLE INSURANCE CERTIFICATE:** Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for both Professional Liability and General Liability and the dollar amounts of the coverage.
- DBE/MBE/WBE/VBE:** If claiming either Minority Business Enterprise/Women Business Enterprises/Veteran Business Enterprise, the Prime Firm (not sub-consultant) **shall be** certified as a Minority Business Enterprise by the State of Florida, Department of Management Services, Office of Supplier Diversity pursuant to Section 287.0943, Florida Statutes.

**YES, CLAIMING STATUS AS PRIME ONLY**

**YES, I'VE ATTACHED THE CERTIFICATE OF MBE/WBE STATUS FROM THE STATE OF FLORIDA AS OUTLINED SECTION 1.**

**NOT CLAIMING DBE/MBE/WBE /VBE**

PLEASE INITIAL AND RETURN WITH YOUR PROPOSAL.  THIS PAGE MUST BE COMPLETED AND RETURNED WITH PROPOSAL.

**B. METHOD OF SUBMITTAL:**

1. **NUMBER OF SUBMITTAL PACKAGES:** One (1) original hard-copy **UNBOUND** (marked "ORIGINAL") with signature in blue ink. **NUMBER OF COPIES:** three (3) hard copies **BOUND** (marked "COPY").  
**(1 original + 3 copies = 4 total submittals).**
2. **NUMBER OF PAGES:** The proposal **shall not exceed** twenty-two (22) one-sided pages or eleven (11) double-sided pages in length. **(The Title Page, City Required Forms, 330 Form, resumes and tabs do not count towards the TOTAL NUMBER OF PAGES).**
  - 2.1 When compiling a response, sections should be tabbed and labeled; pages should be sequentially numbered at the bottom of the page; proposals should be bound to allow flat stacking for easy storage; **do not use three ring binders of any kind**; and sections should be compiled in the sequence list above.
  - 2.2 Place proposal with all the required items in a sealed envelope clearly marked for specification number, project name, name of proposer, and due date and time.
3. **PAPER/FONT SIZE:** Letter size 8.5"x11"/Font Calibri 11, PDF FORMAT.
4. **USB FLASH DRIVE:** One (1) electronic version in Portable Document Format (PDF) **on a USB Drive only** containing the entire submittal. **CDs will not be accepted.**
5. **SUBMIT SEALED PROPOSAL PACKAGE WITH THE FOLLOWING INFORMATION CLEARLY MARKED ON THE OUTSIDE PACKAGING (FedEx, UPS, USPS, etc.): "RFP NO. 2025-12 PROFESSIONAL ENGINEERING SERVICES – CONTINUING SERVICES CONTRACTS FOR CITY OF NORTH PORT"** to the address below:

City of North Port  
Finance Department - Purchasing Division  
Donald "Keith" Raney, Contract Administrator II  
4970 City Hall, 3 RD Floor, Suite 337  
North Port, Florida 34286

Note: Submissions received after the due date and time stated on the Notice of Availability or subsequent Addenda will not be accepted.



**ATTACHMENT 2  
STATEMENT OF ORGANIZATION  
(Information Sheet for Transactions and Conveyances Corporation Identification)**

The following information will be provided to the City of North Port for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, and capitalization is exactly as registered with the state or federal government.

Name of Respondent: Hazen and Sawyer, P.C.

DBA (if any): Hazen and Sawyer

Type of Entity (Sole Proprietor, Corporation, LLC, LLP, Partnership, etc): Corporation

Business Address: 2256 First Street, Suite 131, Fort Myers, FL 33901

Phone: (239) 788-9401 Fax: None

E-Mail hkremers@hazenandsawyer.com

Print Name and Title of person authorized to bind: Holly Kremers, PE, ENV SP, Associate Vice President

Federal Identification Number: 13-2904652

Signature: 

Respondent shall submit proof that it is authorized to do business in the State of Florida unless registration is not required by law.

**(Please Check One)**

Is this a Florida Corporation:

Yes or  No

Hazen is authorized to transact business in the State of Florida. Our Certificate of Good Standing is attached.

If not a Florida Corporation,

In what state was it created:

New York

Name as spelled in that State:

Hazen and Sawyer, D.P.C.

What kind of corporation is it:

"For Profit" or  "Not for Profit"

Is it in good standing:

Yes or  No

Authorized to transact business

in Florida:

Yes or  No

State of Florida Department of State Certificate of Authority Document No.: 841657

Does it use a registered fictitious name:

Yes or  No

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

Names of Officers:

President: Alan Stone, PE, President Secretary: Robert B. Taylor, Jr., PE

Vice President: See attached listing Treasurer: Peter Young, PE

Director: Robert B. Taylor, Jr., PE, Senior VP and Chair of the Board of Directors Director: Janice Carroll, PE, VP and Chief Operations Officer

**RESPONSE TO ATTACHMENT 2 – STATEMENT OF ORGANIZATION**  
**(Information Sheet for Transactions and Conveyances Corporation Identification)**

**Response to “Names of Officers”:**

Select Officers in Hazen’s Southeast Region are listed below:

- Robert Taylor, Jr., PE – Senior Vice President
- Patricia Carney, PE, BCEE, DBIA – Vice President
- Andre Dieffenthaler, PE, DBIA – Vice President
- Janeen Wietgreffe, PE, PMP – Vice President
- Holly Kremers, PE, ENV SP – Associate Vice President
- Glenn “Tad” Rogers III, PE, CCCA, ENV SP – Associate Vice President
- Andrew Coleman, PE – Associate Vice President
- Jacob Porter, PE, BCEE, DBIA – Associate Vice President

All of these individuals are authorized to bind the firm.

# *State of Florida*

## *Department of State*

I certify that the attached is a true and correct copy of the Renewal of Fictitious Name Registration for HAZEN AND SAWYER, which was filed on July 27, 2020, as shown by the records of this office.

The document number assigned to this renewal is G20000089775.

*Given under my hand and the Great Seal of  
Florida, at Tallahassee, the Capital, this the  
Twenty Eighth day of July, 2020*



*Randy R. Lee*  

---

*Secretary of State*

## Yuen, Charlene

---

**From:** OnlineWebFicRen@dos.state.fl.us  
**Sent:** Tuesday, July 28, 2020 4:05 AM  
**To:** Yuen, Charlene  
**Subject:** Fictitious Name Renewal - G20000089775; 900349114969  
**Attachments:** CC-900349114969-07282020-G15000090047.pdf; 90114969.tif

External Email - think before you click

Subject: HAZEN AND SAWYER

Renewal Number: G20000089775

This will acknowledge the Fictitious Name Registration Renewal for HAZEN AND SAWYER, filed on July 27, 2020.

This renewal continues the original registration number - G15000090047 until December 31, 2025.

Enclosed is the certification you requested.

If the mailing address of this business changes, please notify this office in writing or through the link provided on our website

<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sunbiz.org%2F&data=02%7C01%7CCYUEN%40HAZENANDSAWYER.COM%7C900971cdf0f34364ca7608d832ccf2f5%7C083fc4d272ad412bae7d6b81b83916dd%7C0%7C1%7C637315203253406606&sdata=35CakevgvXVokCmv2FoMeAxjK4%2F1WsVxMD6%2Bny8pq%2Fc%3D&reserved=0> for Address & FEI/EIN Changes. Please reference the original registration number.

Should you have any questions regarding this matter you may contact our office at (850) 245-6058.

Division of Corporations

**APPLICATION FOR RENEWAL OF FICTITIOUS NAME**

REGISTRATION# G15000090047

**Fictitious Name:** HAZEN AND SAWYER

**FILED**  
**Jul 27, 2020**  
**Secretary of State**  
**G20000089775**

**Current Mailing Address:**

498 SEVENTH AVENUE  
NEW YORK, NY 10018

**New Mailing Address:**

**Current County of Principal Place of Business:**

MULTIPLE

**New County of Principal Place of Business:**

**Current FEI Number:**

13-2904652

**New FEI Number:**

**Current Owner(s):**

Document #: 841657 ( ) Delete  
FEI #: 13-2904652  
Name: HAZEN AND SAWYER, P.C.  
Address: 498 SEVENTH AVENUE  
City-St-Zip: NEW YORK, NY 10018

**Additions/Changes to Owner(s):**

Document #: ( ) Change ( ) Addition  
FEI #:  
Name:  
Address:  
City-St-Zip:

I the undersigned, being an owner in the above fictitious name, certify that the information indicated on this form is true and accurate. I understand that the electronic signature below shall have the same legal effect as if made under oath. I am aware that false information submitted in a document to the Department of State constitutes a third degree felony as provided for in s. 817.155, Florida Statutes.

WILLIAM CRAYON

07/27/2020

Electronic Signature(s)

Date

**Certificate of Status Requested ( )**

**Certified Copy Requested (X)**

# *State of Florida*

## *Department of State*

I certify from the records of this office that HAZEN AND SAWYER, P.C. is a New York corporation authorized to transact business in the State of Florida, qualified on October 18, 1978.

The document number of this corporation is 841657.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 13, 2025, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Thirteenth day of January,  
2025*



A handwritten signature in black ink, appearing to be "M. J. ...", written over a horizontal line.

*Secretary of State*

Tracking Number: 4346259733CC

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

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

Select Southeast Region Associate Vice Presidents:

**Other:** Holly Kremers, PE, ENV SP, Associate VP **Other:** Glenn F. "Tad" Rogers III, PE, CCCA, ENV SP, Associate VP

**Name of Corporation (As used in Florida):**

Hazen and Sawyer, P.C., doing business as Hazen and Sawyer

(Spelled exactly as it is registered with the state or federal government)

**Corporate Address:**

Post Office Box: N/A  
City, State Zip: \_\_\_\_\_  
Street Address: 498 Seventh Avenue, 11th Floor  
City, State, Zip: New York, NY 10018

STATE OF Florida  
COUNTY OF Lee

Sworn to and subscribed before me this 21st day of March, 2025, by Holly Kremers, PE, ENV SP who  is personally known to me or  has produced his/her driver's license as identification.

Morgan Gilmer  
Notary Public - State of Florida  
Print Name: Morgan Gilmer  
Commission No: HH 641804



**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

The following City Required Reference Forms are included in Tab 6 – References to minimize duplication of information:

- **Attachment 3 - References/Client Listing**
- **Attachment 4 – Reference and Performance Questionnaire Verification Forms**

**ATTACHMENT 5  
DRUG FREE WORKPLACE FORM**

The undersigned Consultant in accordance with Florida Statute 287.087 hereby certifies that  
Hazen and Sawyer does:  
(Company Name)

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 bid 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 bid, 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 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.

**Check one:**



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



As the person authorized to sign this statement, this firm **does not** comply fully with the above requirements.

  
Offeror's Signature

Holly Kremers, PE, ENV SP, Associate Vice President

March 21, 2025

Date

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**ATTACHMENT 6  
PUBLIC ENTITY CRIME INFORMATION**

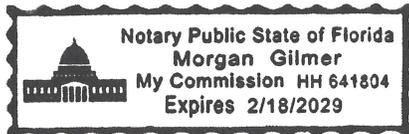
As provided by F.S. §287.133, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Subcontractor, or Consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

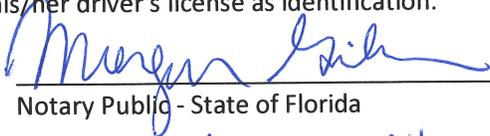
I, Holly Kremers, PE, ENV SP, being an authorized representative of the Respondent, Hazen and Sawyer, located at 2256 First Street, Suite 131 City: Fort Myers State: FL Zip Code: 33901, have read and understand the contents above. I further certify that Respondent is not disqualified from replying to this solicitation because of F.S. §287.133.

Signature:  Date: 3/21/2025  
Telephone #: (239) 788-9401 Fax #: None  
Federal ID #: 13-2904652

STATE OF Florida  
COUNTY OF Lee

Sworn to and subscribed before me this 21st day of March, 2025, by Holly Kremers, PE, ENV SP who  is personally known to me or  has produced his/her driver's license as identification.



  
Notary Public - State of Florida

Print Name: Morgan Gilmer  
Commission No: HH 641804

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ATTACHMENT 7  
NON-COLLUSIVE AFFIDAVIT

State of Florida  
County of Lee County } SS.

Before me, the undersigned authority, personally appeared:  
Holly Kremers, PE, ENV SP who, being first duly sworn, deposes and says that:

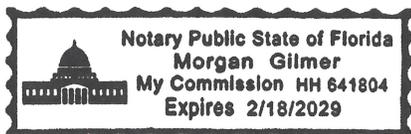
1. He/She is the Associate Vice President (Owner, Partner, Officer, Representative or Agent) of Hazen and Sawyer, the Respondent that has submitted the attached reply;
2. He/She is fully informed respecting the preparation and contents of the attached reply and of all pertinent circumstances respecting such reply;
3. Such reply is genuine and is not a collusive or sham reply;
4. Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other respondent, firm, or person to submit a collusive or sham reply in connection with the work for which the attached reply has been submitted; or have in any manner, directly or indirectly sought by agreement or collusion, or communication or conference with any respondent, firm, or person to fix the price or prices in the attached reply or of any other respondent, or to fix any overhead, profit, or cost elements of the reply price or the reply price of any other respondent, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the reply work.

Signed, sealed and delivered this 21st day of March, 2025.

By: Holly Kremers  
Holly Kremers, PE, ENV SP  
(Printed Name)  
Associate Vice President  
(Title)

STATE OF Florida  
COUNTY OF Lee

Sworn to and subscribed before me this 21st day of March, 2025, by Holly Kremers, PE, ENV SP who  is personally known to me or  has produced his/her driver's license as identification.



Morgan Gilmer  
Notary Public - State of Florida  
Print Name: Morgan Gilmer  
Commission No: HH 641804

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**ATTACHMENT 8  
LOBBYING CERTIFICATION**

“The undersigned hereby certifies, to the best of his or her knowledge and belief, that”:

STATE OF Florida

COUNTY OF Lee

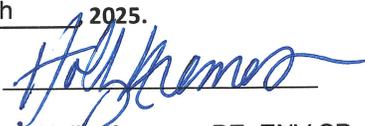
This 21st day of March of 2025

Holly Kremers, PE, ENV SP, being first duly sworn, deposes and says that he or she is the authorized representative of Hazen and Sawyer (Name of the contractor, firm or individual), and that the vendor and any of its agents agree to have no contact or communication with, or discuss any matter related in any way to any active City of North Port solicitation, with any City of North Port elected officials, officers, their appointees or their agents or any other staff or outside individuals working with the city in respect to this request other than the designated Procurement Official Contact and to abide by the restrictions outlined in the General Terms and Conditions of the Solicitation. Technical questions directed to the project manager, is prohibited. These persons shall not be lobbied, either individually or collectively, regarding any questions for bid, proposal, qualification and/or any other solicitations released by the city. To do so is grounds for immediate disqualification from the selection process. The selection process is not considered final until such a time as the Commission has made a final and conclusive determination.

(a) No City appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence either directly or indirectly an officer or employee of the City, City Commission in connection with the awarding of any City Contract.

(b) If any funds other than City appropriated funds have been paid or will be paid to any person for influencing or attempting to influence a member of City Commission or an officer or employee of the City in connection with this contract, the undersigned shall complete and submit Standard Form-L “Disclosure Form to Report Lobbying”, in accordance with its instructions.

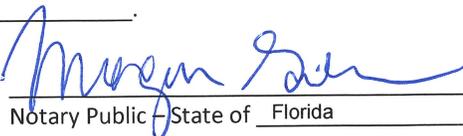
Signed, sealed and delivered this 21st day of March 2025.

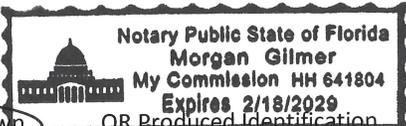
By:   
Holly Kremers, PE, ENV SP  
(Printed Name)  
Associate Vice President  
(Title)

STATE OF Florida

COUNTY OF Lee

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 21st day of March 2025, by \_\_\_\_\_.

  
Notary Public State of Florida



Personally Known  OR Produced Identification   
Type of Identification Produced Holly Kremers, PE, ENV SP, Associate VP

**THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL**

**ATTACHMENT 9**  
**CONFLICT OF INTEREST FORM**

F.S. §112.313 places limitations on public officers (including advisory board members) and employees' ability to contract with the City either directly or indirectly. Therefore, please indicate if the following applies:

**PART I.**

- I am an employee, public officer or advisory board member of the City  
\_\_\_\_\_ (List Position Or Board)
- I am the spouse or child of an employee, public officer or advisory board member of the City  
Name: \_\_\_\_\_
- An employee, public officer or advisory board member of the City, or their spouse or child, is an officer, partner, director, or proprietor of Respondent or has a material interest in Respondent. "Material interest" means direct or indirect ownership of more than 5 percent of the total assets or capital stock of any business entity. For the purposes of [§112.313], indirect ownership does not include ownership by a spouse or minor child.  
Name: \_\_\_\_\_
- Respondent employs or contracts with an employee, public officer or advisory board member of the City  
Name: \_\_\_\_\_
- None Of The Above

**PART II:**

Are you going to request an advisory board member waiver?

- I will request an advisory board member waiver under §112.313(12)
- I will NOT request an advisory board member waiver under §112.313(12)
- N/A

The City shall review any relationships which may be prohibited under the Florida Ethics Code and will disqualify any vendors whose conflicts are not waived or exempt.

**COMPANY:** Hazen and Sawyer

**SIGNATURE:**  \_\_\_\_\_ Holly Kremers, PE, ENV SP, Associate Vice President

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**ATTACHMENT 10**  
**DISCLOSURE FORM FOR**  
**CONSULTANT/ENGINEER/ARCHITECT**

**Please select (only) one of the following three options:**

Our firm has no actual, potential, or reasonably perceived, **financial\*** or **other interest\*\*** in the outcome of the project.

Our firm has a potential or reasonably perceived **financial\*** or **other interest\*\*** in the outcome of the project as described here: \_\_\_\_\_.

Our firm proposes to mitigate the potential or perceived conflict according to the following plan: \_\_\_\_\_.

Our firm has an actual **financial\*** or **other interest\*\*** in the outcome of the project as described here: \_\_\_\_\_.

**\*What does “financial interest” mean?**

If your firm, or employee of your firm working on the project (or a member of the employee’s household), will/may be perceived to receive or lose private income depending on the government business choices based on your firm’s findings and recommendations, this must be listed as a financial interest. An example would be ownership in physical assets affected by the government business choices related to this project. The possibility of contracting for further consulting services is not included in this definition and is not prohibited.

**\*\*What does “other interest” mean?**

If your firm, or employee of your firm working on the project (or a member of the employee’s household), will/may be perceived to have political, legal or any other interests that will affect what goes into your firm’s findings and recommendations, or will be/may be perceived to be affected by the government business choices related to this project, this must be listed as another interest.

**BUSINESS NAME:** Hazen and Sawyer

**NAME (PERSON AUTHORIZED TO BIND THE COMPANY):** Holly Kremers, PE, ENV SP, Associate Vice President

**SIGNATURE:**  **DATE:** 03/21/2025

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**ATTACHMENT 11**  
**SCRUTINIZED COMPANY CERTIFICATION FORM**

Contractor Name: Hazen and Sawyer  
Authorized Representative Name and Title: Holly Kremers, PE, ENV SP, Associate Vice President  
Address: 2256 First Street, Suite 131 City: Fort Myers State: FL ZIP: 33901  
Phone Number: (239) 788-9401 Email Address: hkremers@hazenandsawyer.com

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a Contract with the City of North Port for goods or services of any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such Contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Florida Statutes, section 215.4725, or is engaged in a boycott of Israel.

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a Contract with the City of North Port for goods or services of \$1 million or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such Contract, the company is on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statutes, section 215.473, or with companies engaged in business operations in Cuba or Syria.

**CHOOSE ONE OF THE FOLLOWING**

This Contract or Contract renewal is for goods or services of less than \$1 million. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes Section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel.

This bid, proposal, Contract or Contract renewal is for goods or services of \$1 million or more. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes Section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and it does not have business operations in Cuba or Syria.

I understand that pursuant to Florida Statutes, section 287.135, the submission of a false certification may result in the termination of the Contract if one is entered into, and may subject the above-named company to civil penalties, attorney's fees and costs.

Certified By:

  
\_\_\_\_\_  
Signature of Contractor's Authorized Representative

Holly Kremers, PE, ENV SP  
\_\_\_\_\_  
Name

Associate Vice President  
\_\_\_\_\_  
Title

03/21/2025  
\_\_\_\_\_  
Date

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**ATTACHMENT 12**  
**VENDOR'S CERTIFICATION FOR E-VERIFY SYSTEM**

The undersigned Vendor/Consultant/Contractor (Vendor), after being duly sworn, states the following:

1. Vendor is a person or entity that has entered into or is attempting to enter into a contract with the City of North Port (City) to provide labor, supplies, or services to the City in exchange for salary, wages or other remuneration.
2. Vendor has registered with and will use the E-Verify System of the United States Department of Homeland Security to verify the employment eligibility of:
  - a. All persons newly hired by the Vendor to perform employment duties within Florida during the term of the contract; and
  - b. All persons, including sub-contractors, sub-vendors or sub-consultants, assigned by the Vendor to perform work pursuant to the contract with the City.
3. If the Vendor becomes the successful Contractor who enters into a contract with the City, then the Vendor will comply with the requirements of Section 448.095, Fla. Stat. "Employment Eligibility", as amended from time to time.
4. Vendor will obtain an affidavit from all subcontractors attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien as defined in 8 United States Code, Section 1324A(H)(3).
5. Vendor will maintain the original affidavit of all subcontractors for the duration of the contract.
6. Vendor affirms that failure to comply with the state law requirements can result in the City's termination of the contract and other penalties as provided by law.
7. Vendor understands that pursuant to Florida Statutes, section 448.095, the submission of a false certification may result in the termination of the contract if one is entered into, and may subject the Vendor named in this certification to civil penalties, attorney's fees and costs.

VENDOR: Hazen and Sawyer (Vendor's Company Name)

Certified By:   
AUTHORIZED REPRESENTATIVE SIGNATURE

Print Name and Title: Holly Kremers, PE, ENV SP, Associate Vice President

Date Certified: March 21, 2025

**THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL**



**ATTACHMENT 14**

**- CERTIFICATION REGARDING LOBBYING-FEDERAL**

The undersigned certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

  
\_\_\_\_\_  
Signature of Contractor's Authorized  
Representative

Holly Kremers, PE, ENV SP  
\_\_\_\_\_  
Name

Associate Vice President  
\_\_\_\_\_  
Title

03/21/2025  
\_\_\_\_\_  
Date

***THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH PROPOSAL***

**ATTACHMENT 15**  
**AFFIDAVIT OF COMPLIANCE REGARDING FOREIGN ENTITY OF CONCERN LAWS**

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests and declares as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Florida Statutes Section 287.138.
2. The government of a foreign country of concern does not have a controlling interest in Entity.
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern.
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Florida Statutes Section 692.201.
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Florida Statutes Section 692.201, or a subsidiary of such entity.
6. Entity is not a foreign principal, as defined in Florida Statutes Section 692.201.
7. Entity complies, if purchasing real property, with all applicable requirements of Florida Statutes Sections 692.202, 692.203, and 692.204.
8. If purchasing real property, Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (1) not a person or entity described in Florida Statutes Section 692.204(1)(a) or (2) authorized under Florida Statutes Section 692.204(2) to purchase the subject property. Entity complies with the requirements of Florida Statutes Section 692.204.
9. The undersigned is authorized to execute this affidavit on behalf of Entity.

Under penalties of perjury, I declare that I have read the foregoing document and that the facts stated in it are true.

ENTITY

HAZEN AND SAWYER [insert name of legal entity, in bold ALLCAPS]



[signature]

Holly Kremers, Associate VP [insert name and title]

March 21, 2025 [insert date]

**ATTACHMENT 16**  
**Anti-Human Trafficking Affidavit**

**Instructions:** This form must be completed by an officer or representative of an entity registering as a vendor, entering into, renewing, or extending, a contract with the City of North Port.

The undersigned, on behalf of Hazen and Sawyer ("Entity"), verifies the following:

**A.** I have read and understand that Florida Statutes Section 787.06(13), prohibits the City of North Port ("City") from executing, renewing, or extending a contract to entities that use coercion for labor or services, with such terms defined in Florida Statutes Section 787.06(2) as follows:

- **"Coercion"** means: **(1)** using or threatening to use physical force against any person; **(2)** restraining, isolating, or confining or threatening to restrain, isolate, or confine any person without lawful authority and against her or his will; **(3)** using lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied toward the liquidation of the debt, the length and nature of the labor or services are not respectively limited and defined; **(4)** destroying, concealing, removing, confiscating, withholding, or possessing any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification document, of any person; **(5)** causing or threatening to cause financial harm to any person; **(6)** enticing or luring any person by fraud or deceit; or **(7)** providing a controlled substance as outlined in Schedule I or Schedule II of Section 893.03, Florida Statutes, to any person for the purpose of exploitation of that person.

- **"Labor"** means work of economic or financial value.

- **"Services"** means any act committed at the behest of, under the supervision of, or for the benefit of another. The term includes, but is not limited to, forced marriage, servitude, or the removal of organs.

**B.** I declare, under penalties of perjury, that Entity does not use coercion for labor or services as defined in Florida Statutes Section 787.06(2).

**C.** I understand that this affidavit applies to any City contract executed, renewed, or extended for the duration of the contract; and the Entity must execute and submit this affidavit at least annually in the vendor registration and renewal process.

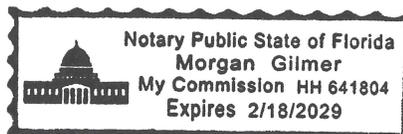
I, the undersigned, understand and affirm that the above statements are based upon personal knowledge; that I am over the age of 18 years and otherwise competent to make the above statements; and am authorized to legally bind the Entity, and make the above statements on behalf of Entity. **Under penalties of perjury, I declare that I have read the forgoing document and that the facts stated in it are true.**

**Authorized Signature:** *Holly Kremers* Date: 03/21/2025  
**Printed Name:** Holly Kremers, PE, ENV SP Title: Associate Vice President

STATE OF Florida  
COUNTY OF Lee

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 21st day of March, 2025, by Holly Kremers, PE, ENV SP, as Associate Vice President of Hazen and Sawyer, the Entity, and is  personally known to me or  produced identification. Type of Identification produced \_\_\_\_\_.

Signature of Notary Public  
*Morgan Gilmer*  
Name of Notary Typed, Printed or Stamped  
My Commission Expires: 02/18/2029







## ADDITIONAL REMARKS SCHEDULE

AGENCY <b>Ames &amp; Gough</b>		NAMED INSURED <b>Hazen and Sawyer</b> 498 Seventh Avenue New York, NY 10018	
POLICY NUMBER <b>SEE PAGE 1</b>			
CARRIER <b>SEE PAGE 1</b>	NAIC CODE <b>SEE P 1</b>	EFFECTIVE DATE: <b>SEE PAGE 1</b>	

## ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,  
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:  
conditions.

Pollution Liability coverage is provided and included within the Professional Liability policy noted above. It shares the limits of the Professional Liability policy.

# *State of Florida Department of State*

I certify from the records of this office that HAZEN AND SAWYER, P.C. is a New York corporation authorized to transact business in the State of Florida, qualified on October 18, 1978.

The document number of this corporation is 841657.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 13, 2025, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Thirteenth day of January,  
2025*



  
*Secretary of State*

Tracking Number: 4346259733CC

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

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

**Licensee**

Name: **HAZEN AND SAWYER, P.C.** License Number: **2771**  
Rank: **Registry** License Expiration Date:  
Primary Status: **Current** Original License Date: **11/08/1978**

**Related License Information**

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
44165	Current, Active	TAYLOR, ROBERT B JR	Registry	04/27/2017	Professional Engineer	02/28/2027

Ron DeSantis, Governor  
Melanie S. Griffin, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF PROFESSIONAL ENGINEERS**

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

**TAYLOR, ROBERT B JR**  
13393 159TH ST N  
JUPITER FL 334780000

**LICENSE NUMBER: PE44165**  
**EXPIRATION DATE: FEBRUARY 28, 2027**

Always verify licenses online at [MyFloridaLicense.com](http://MyFloridaLicense.com)



Do not alter this document in any form.  
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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



**STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**BOARD OF PROFESSIONAL ENGINEERS**

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

**ROGERS, GLENN FREDERICK III**

7260 SWAN LAKE DR  
FORT MYERS FL 33919

**LICENSE NUMBER: PE60506**

**EXPIRATION DATE: FEBRUARY 28, 2027**

Always verify licenses online at [MyFloridaLicense.com](http://MyFloridaLicense.com)



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- [Unlicensed Activity Search](#)
- [AB&T Delinquent Invoice & Activity List Search](#)

**Licensee**

Name:	HAZEN AND SAWYER, PC	License Number:	
Rank:	Geology Business Information	License Expiration Date:	
Primary Status:	Current	Original License Date:	06/16/2021

**Related License Information**

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
PG2697	Current, Active	BULMAN, GERRIT RIJK	Professional Geologist	05/20/2021	Professional Geologist	07/31/2026

[Printer Friendly](#)

[Return to License Details](#)



Ron DeSantis, Governor

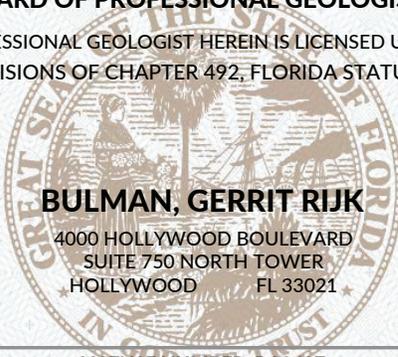
Melanie S. Griffin, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**BOARD OF PROFESSIONAL GEOLOGISTS**

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



**BULMAN, GERRIT RIJK**  
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