



PINELLAS COUNTY

25-0210-RFQ-CCNA; Highland Lakes Force Main Replacement - Professional Engineering Services

MARCH 20, 2025 | 3:00 PM

PROPOSER:

CHA Consulting, Inc.
2502 N Rocky Point Drive, Suite 145
Tampa, FL 33607

PRIMARY CONTACT:

Weston Haggen, PE, DBIA, ENV SP, PMP, Project Manager
T: (813) 549-0919 | E: WHaggen@chasolutions.com



INTRODUCTION TAB



LETTER OF INTEREST

MARCH 20, 2025

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

RE: #25-0210-RFQ-CCNA | Highland Lakes Force Main Replacement - Professional Engineering Services

Dear Selection Committee Members:

Pinellas County Utilities is dedicated to providing uninterrupted wastewater collection and transmission service to its customers and improving the long-term impact of utility systems on the surrounding environment. To continue on this mission, the county is interested in replacing a 20-inch ductile iron force main starting at Camelot Court, winding through various easements in the Highland Lakes and Alderman Road area, and traveling west on Bee Pond Road to Pump Station 302, which ultimately goes to the William E. Dunn Water Reclamation Facility (Dunn WRF). This force main has been determined to be near the end of its useful life with various evaluations that identified some areas of reduced wall thickness impacting the structural integrity of the pipe. This force main has also been determined to have some capacity limitations with high head conditions that can restrict pumping at some pump stations. Force mains pose unique challenges because the nature of the wastewater promotes the accumulation of hydrogen sulfide; this subsequently forms sulfuric acid and can deteriorate the ductile iron pipe.

CHA Consulting, Inc. (CHA) is very excited about the opportunity to further our partnership with Pinellas County, **having already been providing services to complete force main assessments for over 170,000 feet of the North County force main system since 2017, specifically including a portion of the proposed replacement for this project.** CHA is eager to further contribute to the replacement of this force main, **having already designed and overseen the replacement for a portion of the Klosterman Road force main to replace the most vulnerable sections which were identified at the time as having less than 30% remaining wall thickness.**

Selecting the CHA team for this project is the first step toward **smooth and straightforward force main replacement.** Our core team includes CHA; ECHO UES, Inc. (ECHO); Driggers Engineering Services (Driggers); and Dialogue Public Relations (Dialogue). We understand your project goals and objectives well and have developed an approach and team tailored to your needs, including:

Specific Technical Knowledge and Understanding of County Goals. CHA has a significant history of successfully designing large-diameter force main replacements and the intricacies that come with pipeline projects. Our proposed project manager, **Weston Haggen, PE, ENV SP, PMP**, and proposed team members, **Arnelio Alfonso, PE, Stefano Ceriana, PE, LEED AP, Scott Hoxworth, PE, and Emily Staubus Williamson, PE**, each have robust experience in force main design using both open-cut and trenchless methods. Beyond the technical aspect, our team understands the challenges to be considered as part of pipeline projects, including maintenance of traffic (MOT) flow, troubleshooting utility conflicts, bypassing to maintain wastewater service, hydraulic modeling, and limiting disruptions to traffic and nearby properties. Our team's significant and unmatched technical experience in large-diameter pipeline design will provide the county with the best technical approach to meet the needs of this project.

Experience with Force Main Replacements. CHA has previously completed the assessment of a portion of this force main, specifically along Camelot Court. CHA also completed the assessment of another nearby significant force main on Klosterman Road and Disston Avenue which identified that it was in poor condition and required replacement. CHA designed the replacement

**FORCE MAIN DESIGN
EXPERTS—YOUR
SUCCESS, OUR
COMMITMENT.**

CHA is a leader in wastewater force main assessment, design, and construction, offering innovative solutions for complex infrastructure projects. With expertise in condition assessment, hydraulic modeling, and trenchless and open-cut installations, we have successfully delivered projects across Florida, including for Pinellas County. Our experience with large-diameter pipelines and commitment to minimizing disruptions ensure a reliable, efficient force main design tailored to your project's needs.



of the most vulnerable sections on Klosterman Road and Disston Avenue, over 800 feet. Through this project, CHA worked closely with the county to develop the detailed design, along with a detailed bypassing plan to ensure that wastewater service remained uninterrupted for the duration of construction. CHA also worked closely with the county and contractor to complete additional testing prior to replacement, subsequently extending the force main replacement to include additional sections that were determined to be in poor condition.

With this knowledge, our team has already taken a detailed evaluation of the potential replacement options, including horizontal direction drilling (HDD), sliplining, and open-cut. These options were developed with consideration for limiting impacts on residents and traffic on Highlands Boulevard, Alderman Road, US 19, and other residential streets; reducing potential impacts on adjacent properties, including the Innisbrook Resort; and maintaining pedestrian and bike access on the Pinellas Trail. These options are further detailed in this proposal.

Proven Project Leadership to Deliver your Project on Schedule and Within Budget. **Weston Hagen**, who has successfully managed more than 130 projects (including various construction delivery methods), will serve as our team's project manager to successfully deliver your project. Many members of the CHA team have worked with the county to deliver past projects. They are known for their **sound technical knowledge, effective communication, and high level of accountability centered on the county's best interests**. CHA understands the county's commitment to a schedule of 365 days for design, 180 days for bidding, and 400 days for construction. **You can count on the CHA team to work collaboratively with you and your staff to develop solutions to exceed the county's expectations for force main replacement. To expedite the design, we have prepared draft plan and profile drawings (located at the end of Tab 6.)**

Multi-disciplined Experts. Our clients have recognized the value that CHA brings by providing a full complement of technical services to projects. CHA is uniquely positioned to reduce project delivery costs through value engineering and efficient project management, reducing change orders during construction, and driving project schedules from initial conceptual design through construction and project acceptance. Your project will directly benefit from our team's strength, from preliminary design to construction.

Local Benefits with Nationwide Support. Hiring a local consultant has many benefits, including **prompt response and established relationships within the community**. Our established relationships with local agencies allow us to progress your projects efficiently. In addition, CHA offers the county a depth of resources totaling more than 2,000 staff members, providing the county with access to professionals with the tools, technology, and expertise to provide timely, top-notch engineering solutions.

Non-Collusion Declaration. CHA certifies that this submittal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting an RFQ submittal for the same contractual services and is in all respects fair and without collusion or fraud. The undersigned certifies on behalf of CHA that CHA has not employed or retained any company or person, other than bona fide employees working solely for CHA, to solicit or secure any agreement arising from this RFQ submittal, and that CHA has not paid or agreed to pay any person, company, corporation, individual, or firm, other than its bona fide employees working solely for CHA, or agreed to pay any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award.

We greatly appreciate your consideration of CHA's qualifications and experience for this vital project for Pinellas County Utilities. We are committed to working in partnership with you and your staff and are ready to listen, understand, and act on your needs. We will commit the appropriate team members' time throughout the project to deliver the necessary depth of expertise and resources required.

Sincerely,

CHA Consulting, Inc.

A handwritten signature in blue ink that reads "Allen W. Dethloff".

Allen Dethloff, PE
Florida Project Team Leader

Two handwritten signatures in blue ink. The first signature on the left is "Weston Hagen" and the second signature on the right is the CHA logo.

Weston Hagen, PE, DBIA, ENV SP, PMP
Project Manager

INTRODUCTION TAB



SPECIFIC PROFESSIONAL SERVICES TO BE OFFERED

CHA is an innovative, full-service engineering consulting and construction management firm **delivering sustainable, integrated solutions to the world's most challenging infrastructure projects.** With decades of experience, we bring inspired talent, forward-leaning technology, and essential partnerships to meet our clients' evolving needs. We are your trusted advisors and partners committed to **responsibly improving the world we live in.**

CHA serves as your single point of contact from start to finish, utilizing technology advancements and adapting teams, schedules, budgets, and services to each unique challenge. Our client focus is driven by trust and collaboration. We study, design, manage, and build **projects that enhance our communities and our world.**

At CHA, we are committed to the values of **inclusion, diversity and equality, and the full participation of all people.** These are core company values at the heart of who we are as an organization. CHA has and will continue to

embrace and celebrate the diversity of voices our employees, clients, partners, and communities represent.

CHA's commitment to sustainability comes through in our work, the communities we build, and as we work to create a better, more sustainable workplace. Our diversification across markets, geographies, and services has driven CHA's success.

CHA's robust health and safety program empowers our people to take ownership of safety through education and access to the best safety tools. Our **"people first" approach** instills a culture of health and safety that minimizes the risk of workplace incidents, injuries and exposure to hazards for our employees, partners and the public. Proactive engagement to health and safety permeates throughout all levels of our organization.

At CHA, engineering and client engagement go hand-in-hand. Providing both yields **amazing value... and amazing results.**

CHA at a Glance



2,000+

Employees
firm-wide



73

Years in
business



40+

Office
locations

Wastewater Force Main Condition Assessment and Design Solutions:

CHA is one of the leading wastewater force main condition assessment, design, and construction services engineering firms. We have assisted many clients, **including Pinellas County**, in assessing wastewater force mains and designing new or replacement force main installations with challenging problems that require unique and thoughtful solutions. Our experience includes modeling, wastewater force main condition assessment using ultrasonic thickness testing (UTT), and design using conventional open-cut and trenchless methods (i.e., HDD, jack-and-bore, sliplining, pipe bursting, etc.).

CHA understands pipeline infrastructure design and has extensive experience in both small- and large-diameter pipelines. Our projects have demanded careful consideration and planning for limiting impacts on surrounding areas, minimizing disruptions, and maintaining utility service throughout the duration of the project.

We have participated in solving challenges and delivering solutions for clients across Florida. CHA recently completed Orange County's Storey Park/Innovation Place Utility project that included approximately 9,000 feet of 24-inch to 36-inch water main and 20-inch to 30-inch force main installed within utility easements and future ROW, constructed by the jack-and-bore method. In addition, for the City of Fort Lauderdale, CHA also recently completed the design and installation of 15,200 feet of 54-inch high-density polyethylene (HDPE) redundant bypass force main, including 9,700 feet of pipe installed via HDD to cross important city streets, rivers, and other critical locations.

WASTEWATER QUALIFICATIONS & EXPERIENCE

Large-Diameter Wastewater Force Main

CHA has assisted many clients in constructing both new and relocating existing large-diameter force mains to meet the utility's needs. Our highly technical staff has experience in designing large-diameter force mains and the associated challenges that must be considered during design, permitting, bidding, and construction to ensure a smooth installation.

Wastewater Hydraulic Modeling

As a leading hydraulic modeling engineering firm, CHA has extensive experience in developing both system-wide wastewater master plans and evaluating project-specific issues, such as sizing new piping within an existing system. Our experienced staff of engineers will help you implement the best option based on existing conditions and cost-effective considerations.

Trenchless Design

CHA understands that pipeline construction can cause significant disruptions to both nearby properties and the utility system. To mitigate impacts and maintain utility service, CHA regularly utilizes trenchless construction methods (i.e., HDD, sliplining, pipe bursting, and jack-and-bore) to allow mains to be installed and replaced with minimal impact.

Maintaining Wastewater Service

CHA understands that wastewater service is uninterrupted and must serve customers at all times. To complete complex construction projects, CHA has worked in partnership with utility owners to develop custom solutions to maintain wastewater service, using methods such as construction phasing, bypassing through linestops, and tankering upstream lift stations.

Funding

Securing funding is as important as the engineering for a successful project. CHA has applied for and secured over \$100M in alternative funding for Florida clients over the past few years, including over \$50M through SRF loan funding for the City of Apopka's wastewater treatment capacity expansion; over \$2.5M in water management district cost-share funding for the City of Eustis' WWTP and RIB expansion; and over \$50M in SRF loans and \$5M in cooperative funding for the City of Haines City's wastewater/reclaimed system improvements.

WASTEWATER SERVICES:

- **Wastewater treatment:**
 - Solids handling, treatment, and disposal
 - System hydraulic modeling
 - Treatability studies and process evaluation/optimization
 - Secondary and tertiary treatment system design
 - Biological nutrient reduction (BNR)
 - Enhanced BNR (EBNR)
 - CMOM
 - SCADA
- **Wastewater collection systems:**
 - Large-diameter force main/trenchless replacement
 - Septic-to-Sewer
 - Collection system and pump station design
 - I/I studies
 - SSES
 - Sewer rehabilitation
 - System mapping
 - Condition assessment
- **Contract administration and construction observation**

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1. Confirmation of Receipt of Addenda
2. W-9 Request for Taxpayer Identification Number and Certification
3. Vendor References
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6. Small Business Enterprise (SBE) Status Form

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TAB 1. SF 330 - PART I & II

TAB 1. SF 330 - PART I & II

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Highland Lakes Force Main Replacement - Professional Engineering Services (Pinellas County, FL)

2. PUBLIC NOTICE DATE

2/20/2025

3. SOLICITATION OR PROJECT NUMBER

25-0210-RFQ-CCNA

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Weston Haggen, PE, DBIA, ENV SP, PMP, Project Manager

5. NAME OF FIRM

CHA Consulting, Inc.

6. TELEPHONE NUMBER

(813) 819-0562

7. FAX NUMBER

(813) 549-0922

8. EMAIL ADDRESS

WHaggen@chasolutions.com

C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV	PARTNER			
a.	X			CHA Consulting, Inc.	2502 N Rocky Point Drive Suite 145 Tampa, FL 33607	Prime consultant - project management, force main design, trenchless design, hydraulic analysis, permitting/regulatory compliance, CEI, and environmental
b.		X		Driggers Engineering Services, Inc. (SBE) [] CHECK IF BRANCH OFFICE	PO Box 17839 Clearwater, FL 33762	Geotechnical engineering
c.		X		Dialogue Public Relations, LLC (WBE/SBE) [] CHECK IF BRANCH OFFICE	1850 Castle Woods Drive Clearwater, FL 33759	Public involvement
d.		X		ECHO UES, Inc. [] CHECK IF BRANCH OFFICE	4803 George Road Suite 350 Tampa, FL 33634	Surveying and mapping/SUE
e.				[] CHECK IF BRANCH OFFICE		
f.				[] CHECK IF BRANCH OFFICE		

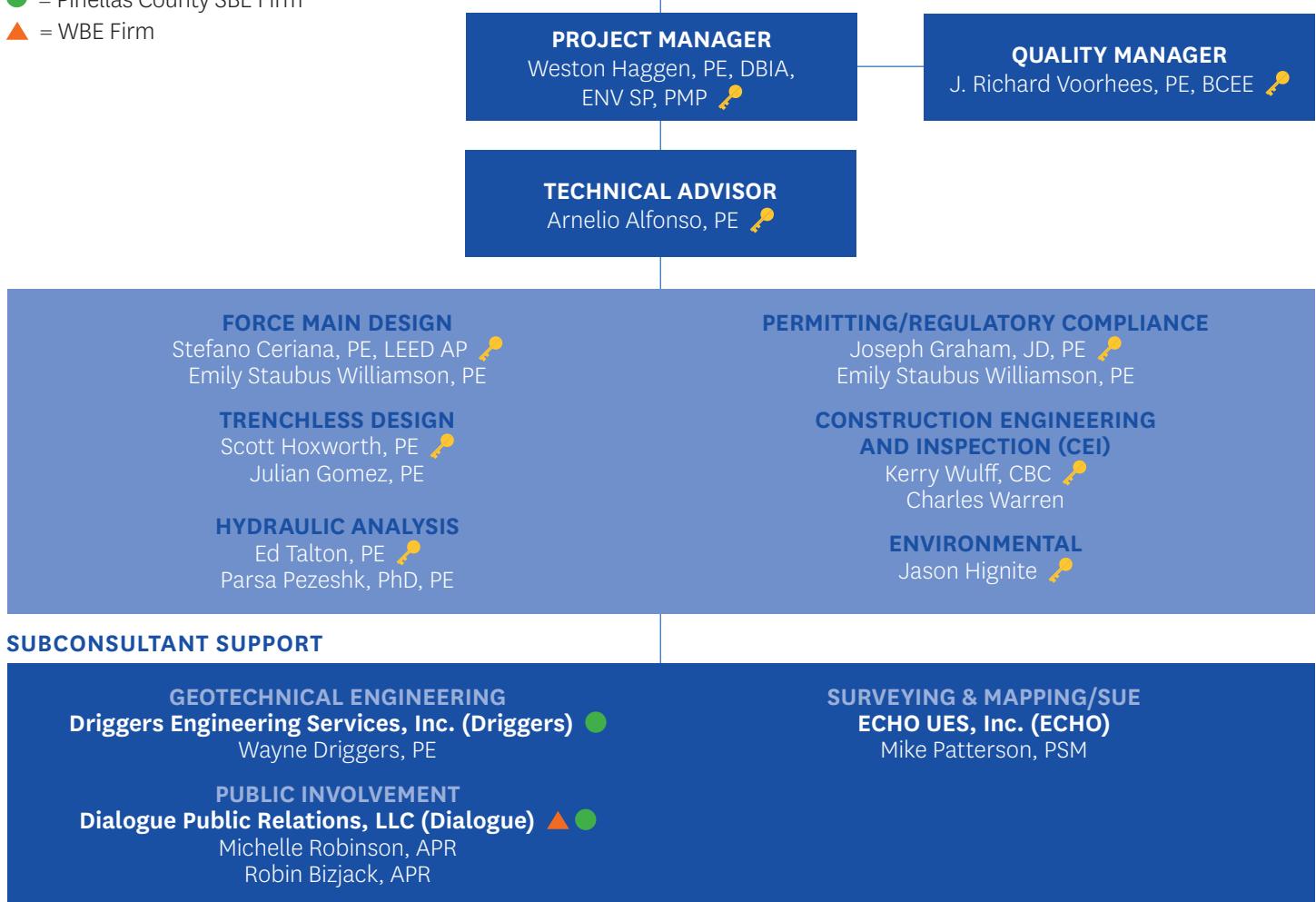
ORGANIZATIONAL CHART

Our team has been built to provide Pinellas County with an extraordinary blend of engineering expertise, Florida project history, and personalized service. Our **proposed project manager**, **Weston Haggen, PE, DBIA, ENV SP, PMP**, will be the county's direct day-to-day contact. Weston has assigned the most qualified project team for the scope of services identified in your RFQ. Each of our team members was specifically selected to assist in successfully completing all unique challenges and project needs for the duration of the contract. Resumes for the CHA team identified below can be found on the following pages.

LEGEND:

- ◆ = Key Personnel/Task Lead
- = Pinellas County SBE Firm
- ▲ = WBE Firm

PINELLAS COUNTY



In-House Key Technical Resources



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Weston Hagen, PE, DBIA, ENV SP, PMP	13. ROLE IN THIS PROJECT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 16	b. WITH CURRENT FIRM 16

15. FIRM NAME AND LOCATION (City and State)

 **CHA Consulting, Inc.**
Tampa, FL

16. EDUCATION (Degree and Specialization) M.S.E., Civil Engineering B.S.E., Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL FDOT, MOT Advanced, No. 41689 NASSCO PACP/MACP/LACP Certification No. 07004925 Design-Build Professional Certification No. D-3301 Envision Sustainability Professional, Certification No. 39259
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

OSHA 10-hour Construction Program, Hydraulic Surge Modeling Training, American Water Works Association, Water Environment Federation, American Society of Civil Engineers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Palm Harbor Transmission Force Main Assessment (Klosterman Road, Pinellas Trail, and Camelot Court Force Mains) Pinellas County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the field condition assessment via UTT along various force mains within the Palm Harbor region of North Pinellas County. CHA evaluated ~5,140 feet of 30-inch DI force main along the Pinellas Trail; ~3,180 feet of 30-inch DI force main along Klosterman Road; ~800 feet of 30-inch PVC force main along Klosterman Road; and ~1,370 feet of 20-inch DI force main along Camelot Court. The results of the Palm Harbor Transmission Force Main Assessment UTT performed along each force main segment concluded that several force mains have reduced pipe wall thickness readings, most likely due to corrosion over time, and were recommended for repair or replacement.	2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Seminola Force Main and Pump Station Replacement Casselberry, FL	(2) YEAR COMPLETED	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager to replace a duplex pump station with a triplex pump station and up-size an existing 10-inch C-200 PVC force main to a 16-inch PVC and HDPE force main. The project included preliminary and final design, permitting, construction inspection, and construction administration services for 4,619 feet of 16-inch force main consisting of 590 feet of jack-and-bore within a 30-inch steel casing, 2,777 feet of HDD, and 1,252 feet of open-cut connecting the city's largest pump station to the city's WRF and an alternative connection with valving to the City of Orlando's Iron Bridge WRF. The project also included ROW, MOT, and FDEP permits.	2020	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 30-inch Force Main Replacement - Klosterman Road and Disston Avenue Pinellas County, FL	(2) YEAR COMPLETED	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the design, permitting, and construction administration services to replace over 700 feet of 30-inch force main on Klosterman Road and Disston Avenue. During CHA's evaluation of ~30,000 feet of the 30-inch force main from Keystone Road to Klosterman Road, two sections on Klosterman Road and Disston Avenue exhibited severe pipe wall loss. The project replaced the two severely corroded sections of ductile iron force main with PVC and relocated the previously below-ground ARVs to above-grade. The project also included specific bypass planning to maintain wastewater service by bypassing through linestops through construction.	2020	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ernie Caldwell Boulevard (ECB) Reclaimed Water Main Improvements, Phase II Polk County, FL	(2) YEAR COMPLETED	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager to complete a loop of the reclaimed water system in this portion of the NERUSA. The project (NERUSA Master Plan RW6 and RW31) consists of approximately 16,100 feet of 20-inch reclaimed water main within the ECB corridor extending from west of Pine Tree Trail to US 17-92, and 4,300 feet of 20-inch reclaimed water main within the US 17-92 corridor from ECB north to Sunny Acres Road.	2022	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 18-inch Subaqueous Stormwater Main Vero Beach, FL	(2) YEAR COMPLETED	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the design, permitting, bidding, and construction administration services to install 7,000 feet of 18-inch HDPE subaqueous stormwater main via HDD under the Indian River from Bee Gum Point to Fred Tuerk Drive. The project included multiple design phases and coordination for other sections being designed by others. Project permitting included USACE Permits, FDEP ERP permitting, and wetland delineation.	Ongoing	Ongoing

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME Arnelio Alfonso, PE	13. ROLE IN THIS PROJECT Technical Advisor/Trenchless Design	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 24

15. FIRM NAME AND LOCATION (City and State)

 **CHA Consulting, Inc.**
Doral, FL

16. EDUCATION (Degree and Specialization) B.S., Civil Engineering Hydrology Course	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Project Management Institute

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) New Redundant 54-inch Bypass Line Design-Build Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the R&R of approximately 15,200 feet of 54-inch HDPE force main. The project included 9,700 feet of pipe installation using innovative HDD technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing and aging pipe.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Emergency Replacement of 48-inch Force Main Crossing Oleta River on NE 163rd Street North Miami Beach, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the emergency subaqueous installation of 800 feet of 48-inch force main under the Oleta River at NE 163rd Street using the HDD installation method. CHA designed the bypass line installed via HDD to divert the flows and allow the existing pipe to be repaired and serve as a redundancy.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Installation of 42-inch Force Main Along North Miami Avenue Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the installation of approximately 3,000 feet of a proposed 42-inch PCCP force main along North Miami Avenue from NW 36th Street to NE 62nd Street. The project also included the installation of approximately 8,000 feet of 42-inch HDPE force main via HDD.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) 24-inch Force Main and 24-Inch Water Main, Subaqueous Crossing of Biscayne Canal North Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager responsible for installing 450 feet of 24-inch force main installed by HDD under the Biscayne Canal from Griffin Boulevard to NE 2nd Avenue. The new 24-inch force main will be interconnected to the existing force mains on both canal sides. The project also encompasses 450 linear feet of 24-inch water main installed by HDD, which crosses the Biscayne Canal.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) HDD Installation of 20-inch HDPE Force Main at Miami International Airport Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the HDD installation of 800 feet of 20-inch HDPE force main to replace 20-inch cast iron force main. This replacement was triggered by previous system failure and sanitary overflows along NW 21st Street. The failed section of the sanitary force main also serviced Miami International Airport.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME Stefano Ceriana, PE, LEED AP	13. ROLE IN THIS PROJECT Project Engineer - Force Main Design	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 11

15. FIRM NAME AND LOCATION (City and State)

 **CHA Consulting, Inc.**
Winter Springs, FL

16. EDUCATION (Degree and Specialization) M.S., Environmental Engineering B.S., Civil/Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL LEED® Accredited Professional FDOT Certification Transportation Approved Temporary Traffic Control (TTC) Intermediate Course, No. 41174
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) World Drive Extension Utility Relocation Osceola County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the relocation of the water, wastewater and reclaimed water utilities as part of a roadway project to extend World Drive as it enters the Magic Kingdom. The roadway was extended, realigned, and included fly-overs, modified drainage, and other roadway improvements. The design included 3,400 feet of 20-inch and 30-inch reclaimed water main, 1,800 feet of 6-inch and 8-inch water main, 1,250 feet of 20-inch water main and 1,100 feet of 8-inch gravity force main and five manholes.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) South Seminole and North Orange County Wastewater Transmission Authority (SSNOCWTA) C-200 Force Main Pipeline Replacement Preliminary Design Report and Design Seminole County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the preliminary design report and design, permitting and construction administration of this pipeline replacement project. The preliminary design report included an evaluation of replacement techniques for approximately 22,000 feet (ranging in size from 12-inch to 20-inch) located throughout residential and commercial areas. The design made use of HDD, pipe bursting and jack-and-bore techniques to minimize disturbance above ground.	PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) SSNOCWTA Eagle Circle Force Main Replacement Seminole County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for this project that included preliminary design, final design, permitting, construction inspection, and construction administration services for 8,275 feet of 12-inch HDPE force main, consisting of 259 feet of jack-and-bore within a 24-inch steel casing, 5,671 feet of pipe bursting, 1,331 feet of HDD and 1,014 feet of open-cut to replace aging C-200 PVC and cast-iron pipe. The project also included ROW, MOT, and FDEP permitting.	PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Seminola Force Main Replacement Casselberry, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer to up-size an existing 10-inch C-200 PVC force main to a 16-inch PVC and HDPE force main. The project included preliminary and final design, permitting, construction inspection, and construction administration services for 4,619 feet of 16-inch force main consisting of 590 feet of jack-and-bore within a 30-inch steel casing, 2,777 feet of HDD, and 1,252 feet of open-cut connecting the city's largest pump station to the city's WRF and an alternative connection with valving to the City of Orlando's Iron Bridge WRF. The project also included ROW, MOT, and FDEP permits.	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Ernie Caldwell Boulevard (ECB) Reclaimed Water Main Improvements Phase 1 Polk County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the preliminary and final design, permitting, bidding, and construction administration services to complete a reclaimed water main loop in the ECB and US Highway 17/92 corridors. The project consisted of 10,300 feet of 20-inch reclaimed water main within the ECB corridor extending from Posner Center to a future roadway connection with Ridgewood Lakes Phase 2. The design included considering a future alignment of a 20-inch potable water main and 16- to 20-inch wastewater force main that will parallel the reclaimed water main equipment for remote operation and monitoring.	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME Emily Staubus Williamson, PE	13. ROLE IN THIS PROJECT Project Engineer - Force Main Design and Permitting/Regulatory Compliance	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 7

15. FIRM NAME AND LOCATION (City and State)
 **CHA Consulting, Inc.**
Tampa, FL

16. EDUCATION (Degree and Specialization) B.S.E., Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Palm Harbor Transmission Force Main Assessment (Klosterman Road, Pinellas Trail, and Camelot Court Force Mains) Pinellas County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the field condition assessment via UTT along various force mains within the Palm Harbor region of North Pinellas County. CHA evaluated ~5,140 feet of 30-inch DI force main along the Pinellas Trail; ~3,180 feet of 30-inch DI force main along Klosterman Road; ~800 feet of 30-inch PVC force main along Klosterman Road; and ~1,370 feet of 20-inch DI force main along Camelot Court. The results of the Palm Harbor Transmission Force Main Assessment UTT performed along each force main segment concluded that several force mains have reduced pipe wall thickness readings, most likely due to corrosion over time, and were recommended for repair or replacement.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) 30-inch Force Main Replacement - Klosterman Road and Disston Avenue Pinellas County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the design, permitting, and construction administration services to replace over 700 feet of 30-inch force main on Klosterman Road and Disston Avenue. During CHA's evaluation of ~30,000 feet of the 30-inch force main from Keystone Road to Klosterman Road, two sections on Klosterman Road and Disston Avenue exhibited severe pipe wall loss. The project replaced the two severely corroded sections of ductile iron force main with PVC and relocated the previously below-ground ARVs to above-grade. The project also included specific bypass planning to maintain wastewater service by bypassing through linestops through construction.	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
c.	(1) TITLE AND LOCATION (City and State) 86th Avenue Water Main Replacement Pinellas County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the design, permitting, and construction administration services to replace approximately 19,500 feet of water main ranging from 2 to 12 inches in diameter to replace aging cast iron water mains, with installation methods, including open-cut and horizontal directional drill (HDD) in the unincorporated areas of Seminole. This work includes connections to the existing potable water distribution system, replacement of fire hydrants, replacement of existing water services, valves and other appurtenances, and restoration. This project utilized trenchless installation designs to limit disruptions and impacts to nearby properties and homeowners.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) TBD (Est. 2027)
d.	(1) TITLE AND LOCATION (City and State) 18-inch Subaqueous Stormwater Main Vero Beach, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the design, permitting, bidding, and construction administration services to install 7,000 feet of 18-inch HDPE subaqueous stormwater main via HDD under the Indian River from Bee Gum Point to Fred Tuerk Drive. The project included multiple design phases and coordination for other sections being designed by others. Project permitting included USACE Permits, FDEP ERP permitting, and wetland delineation.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
e.	(1) TITLE AND LOCATION (City and State) Seminola Force Main and Pump Station Replacement Casselberry, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer to replace a duplex pump station with a triplex pump station and up-size an existing 10-inch C-200 PVC force main to a 16-inch PVC and HDPE force main. The project included preliminary and final design, permitting, construction inspection, and construction administration services for 4,619 feet of 16-inch force main consisting of 590 feet of jack-and-bore within a 30-inch steel casing, 2,777 feet of HDD, and 1,252 feet of open-cut connecting the city's largest pump station to the city's WRF and an alternative connection with valving to the City of Orlando's Iron Bridge WRF. The project also included ROW, MOT, and FDEP permits.	PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME Scott Hoxworth, PE	13. ROLE IN THIS PROJECT Project Engineer - Force Main Design	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 22

15. FIRM NAME AND LOCATION (City and State)

 **CHA Consulting, Inc.**
Winter Springs, FL

16. EDUCATION (Degree and Specialization) M.S., Environmental Engineering B.S., Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Water Environment Federation

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Sea Ray Drive Water Main Crossing Sykes Creek Cocoa, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	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		
b.	(1) TITLE AND LOCATION (City and State) Pineda Causeway Water Transmission Main Design Melbourne, FL	(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.	(1) TITLE AND LOCATION (City and State) Storey Park/Innovation Place Utility Project Orange County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Normandy Boulevard Reclaimed Water Main Extension Volusia County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) East Service Area Potable Water and Reclaimed Water Storage and Re-pump Facility Orange County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm		
e. Project engineer for preliminary engineering, design, permitting, bidding, and construction administration for a new storage and re-pump facility with a 2.5-million-gallon (MG) potable water ground storage tank (GST), a 1.5-MG reclaimed water GST, yard piping, a 7,200-gallons per-minute (gpm) potable water high-service pump system, a 6,000-gpm reclaimed water high-service pump system, a sodium hypochlorite storage and feed system, an operations building, electrical, emergency generator and fuel storage, instrumentation and supervisory control and data acquisition (SCADA), 5,000 feet of 36-inch potable water mains, 5,000 feet of 24-inch reclaimed water mains, 600 feet of gravity sewers, manholes, and 1,100 feet of 4-inch force main.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Julian Gomez, PE	13. ROLE IN THIS PROJECT Project Engineer - Trenchless Design	14. YEARS EXPERIENCE	
		a. TOTAL 9	b. WITH CURRENT FIRM 9

15. FIRM NAME AND LOCATION (City and State)

CHA Consulting, Inc.
Doral, FL

16. EDUCATION (Degree and Specialization) B.S., Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Design-Build for the Installation of a New Redundant 54-inch Bypass Line Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) 2021
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer responsible for the replacement/rehabilitation of approximately 15,200 feet of 54-inch HDPE force main. The project included approximately 9,700 feet of pipe installation using the innovative HDD technology to cross underneath essential city streets and rivers. The project also provided interconnections to existing pump stations and force mains currently connected to the existing aging pipe.	<input type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Emergency Replacement of 48-inch Force Main Crossing Oleta River on NE 163rd Street North Miami Beach, FL	(2) YEAR COMPLETED	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the emergency subaqueous installation of 800 feet of 48-inch force main under the Oleta River at NE 163rd Street using the HDD installation method. CHA designed the bypass line installed via HDD to divert the flows and allow the existing pipe to be repaired and serve as a redundancy.	PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
c.	(1) TITLE AND LOCATION (City and State) Installation of 42-inch Force Main Along North Miami Avenue Miami, FL	(2) YEAR COMPLETED	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the installation of approximately 3,000 feet of a proposed 42-inch PCCP force main along North Miami Avenue from NW 36th Street to NE 62nd Street. The project also included the installation of approximately 8,000 feet of 42-inch HDPE force main via HDD.	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) 2019
d.	(1) TITLE AND LOCATION (City and State) Upgrade of Sewage Pump Station 0300 Miami-Dade County, FL	(2) YEAR COMPLETED	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer to rehabilitate and upgrade Pump Station 0300, an important booster facility that suffered a catastrophic disaster when a dresser coupling failed and flooded the station. CHA created a basis of design report (BODR) and designed the upgrade of the pump station, which includes five 600 HP pumps, operating in a flow range of 7,000 to 31,000 gpm. The pumps collect sewage from a 72-inch influent pipe and discharge into a common header that joins a 48-inch force main. CHA performed several analyses of the existing conditions including hydraulic, mechanical, electrical, structural, and architectural to determine the various possibilities and implement the most practical and cost-effective solution.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) TBD
e.	(1) TITLE AND LOCATION (City and State) Proposed 8- to 18-inch Sanitary Sewer along NW 37th Avenue (Phase I & Phase II) Miami-Dade County, FL	(2) YEAR COMPLETED	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the design of approximately 26,860 feet of 8-inch to 18-inch PVC gravity sewer, complete with 100 manholes and all necessary clean-outs and connections for a complete sanitary sewer system. The team developed detailed MOT plans with specifications for completing the sewer collection system.	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) Est. 2024

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME Edward Talton, PE	13. ROLE IN THIS PROJECT Hydraulic Analysis	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 25

15. FIRM NAME AND LOCATION (City and State)

 **CHA Consulting, Inc.**
Winter Springs, FL

16. EDUCATION (Degree and Specialization) M.S., Environmental Engineering B.S., Environmental Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Collection System Pump Station 357 and Force Main Improvements Pinellas County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Technical advisor for the hydraulic analysis, design, permitting, bidding, and construction services to disconnect the force main connection from pump station 357 and pump station 448, install new force mains connecting each pump station to the downstream larger force main, and design the necessary pump station upgrades to allow pump station 357 and the system to operate as intended.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Continuing Hydraulic Modeling Services Orange County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for a continuing engineering services contract to provide hydraulic modeling for the county to update, optimize and use potable water, wastewater and reclaimed water system hydraulic models. The engineering services included using hydraulic models to support utilities planning, including recommending capital improvements projects, design, operation, and regulatory compliance.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Wastewater Hydraulic Model Assessment St. Petersburg, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for the analysis of the wastewater hydraulic model and the Water Resources Department's (WRD's) standard modeling procedures, validation of the input data for the hydraulic model, and to provide recommendations to update and improve the hydraulic model. CHA described the WRD's modeling processes and summarized recommendations in a technical memorandum.		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Water, Wastewater, and Reuse Master Plan and Hydraulic Modeling St. Cloud, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager who completed an update to the City of St. Cloud's utilities master plan to triple the size of the utility over the next 15 years. GIS and hydraulic modeling were used to locate future development needs and cost-effectively size infrastructure.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Comprehensive Utility Strategic Master Plan Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for a master plan to evaluate the entire utility system and recommend capital improvement projects, actions, policies, and code changes necessary to maintain and improve the system's condition, capacity, performance, efficiency, and quality of service while planning for the future repair and replacement of utility system components. In addition, the master plan created a plan and utilities vision for improvements to the utility system that align with the city's major initiatives and prioritized major rehabilitation and repair initiatives.		<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Parsa Pezeshk, PhD, PE	13. ROLE IN THIS PROJECT Hydraulic Analysis	14. YEARS EXPERIENCE	
		a. TOTAL 8	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State)

CHA CHA Consulting, Inc.
Tampa, FL

16. EDUCATION (Degree and Specialization) Ph.D., Environmental Engineering M.Sc., Environmental Engineering B.Sc., Applied Chemistry	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

American Water Works Association

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Wekiva Septic-to-Sewer Conversion Seminole County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer to develop a remediation plan in the first phase, including an inventory with more than 4,000 on-site sewage treatment and disposal systems (OSTDS) in the Wekiva Basin Management Action Plan (BMAP). The second phase consists of an inventory with more than 16,000 OSTDS in the Lake Jesup and Middle St. Johns River BMAPs. For both areas, completion of hydraulic modeling to assess existing wastewater capacity and infrastructure (including potential infrastructure upgrade and expansion options) and evaluated cost-effective project solutions, financing alternatives, and potential rate and homeowner impacts. Additional support includes the development of community and public outreach material to support the county's goals to convert.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Water and Reclaimed Water Program Management Clearwater, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the system-wide potable and reclaimed water main assessment and replacement program. This program includes the conceptual routing, design, permitting, and construction services for pipeline improvements and assessing and replacing methods to minimize service and critical roadways impacts. This program additionally includes condition assessment, hydraulic modeling, and RPR services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Reclaimed Water Service Evaluation Clearwater, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer responsible for hydraulic modeling and evaluating the reclaimed water system with the overall goal of reducing surface water discharge through increasing public access reclaimed water disposal. CHA evaluated the existing City of Clearwater parks, special facilities, city-owned property, grassed area within road ROWs, and properties currently being irrigated with city-owned potable water lawn meters to determine the effort to connect these areas to the city's reclaimed water distribution system. This will allow for additional public access reuse. CHA modeled the system's hydraulics for existing and proposed network piping to provide recommendations on maximizing the beneficial use of reclaimed water.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Ft. Harrison Avenue Hydraulic Evaluation Clearwater, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for hydraulic modeling and evaluation of the potable and reclaimed water system for sizing potable water and reclaimed water mains along Ft Harrison Avenue to address future growth in the area and improve the hydraulic performance of the reclaimed and potable water systems.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Reclaimed Water Master Plan Clearwater, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for the Clearwater Reclaimed Water Master Plan. The project's purpose is to provide the city with an updated model to evaluate the existing system and potential upgrades and expansion options. In addition, the city is prioritizing the expansion of RCW use to achieve goals associated with updated legislature to eliminate surface water discharge. Project tasks include facilities evaluation, demand project, condition assessment, model calibration, flow projections, water quality evaluation, capacity evaluation, and policy review.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Joseph Graham, JD, PE	13. ROLE IN THIS PROJECT Permitting/Regulatory Compliance	14. YEARS EXPERIENCE	
		a. TOTAL 17	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State)

CHA Consulting, Inc.
Tampa, FL

16. EDUCATION (Degree and Specialization) J.D., Law M.E., Civil and Environmental Engineering M.B.A., Business Administration B.S., Chemical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Florida Bar Association: FL No. 98511; Patent Attorney: DC No. 73182; American Water Works Association

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Rule 62-600 Rule Change Plan Haines City, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for developing and drafting responses to state regulatory changes. Significant elements include a wastewater needs analysis over 20 years, a collection action system plan; and a power outage contingency plan. These elements included technical elements, standard operating procedures, outreach and communication, and financial and rate analysis reporting.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) N/A
[X] Check if project performed with current firm			
b.	(1) TITLE AND LOCATION (City and State) Water and Reclaimed Water Program Management Clearwater, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for developing a system-wide potable water and reclaimed water main assessment and replacement program, including conceptual routing, design, permitting, and construction services for pipeline improvements that kept with the big picture goal of renewing critical infrastructure and the assessment and replacement methods to minimize service and roadway impacts.	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
[X] Check if project performed with current firm			
c.	(1) TITLE AND LOCATION (City and State) Tampa Bay Water, Brandon Booster Station Hillsborough County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project engineer for permitting, designing, and constructing a potable water booster station for a water cooperative consisting of six separate county and municipal government stakeholders. The booster station serves a high growth area of Hillsborough County and is subject to significant county and citizen interest. Permitting role included water management district, department of environmental protection, and county development review permits.	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) 2022
[X] Check if project performed with current firm			
d.	(1) TITLE AND LOCATION (City and State) Wekiva Septic-to-Sewer Conversion Seminole County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project lead for developing, drafting and submitting grant and loan funding applications for various distinct phases of a county septic-to-sewer initiative to address a Priority Focus Area Basin Management Action Plan. Funding pursuits include Division of Water Restoration Assistance Wastewater Grant, Innovative Technologies Grant, State Water-Quality Assistance Grant, Resilient Florida Grant, and Clean Water State Revolving Fund (SRF). Successfully obtained \$10 million in funding from an FDEP Wastewater Grant for the conversion of four project areas in the Wekiva PFA Area.	PROFESSIONAL SERVICES 2021	CONSTRUCTION (if applicable) N/A
[X] Check if project performed with current firm			
e.	(1) TITLE AND LOCATION (City and State) Mims Wellfield Information Map Brevard County, FL	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for a study with exhibits detailing the status of all wells with a dispersed water supply wellfield. CHA analyzed the regulatory status of existing individual wells, wells under construction and identified potential well sites. The well sites (approximately 20) and site features were compared to applicable Florida rules for setbacks and buffers to water production wells, recorded easements and well test results to generate a regulatory and regulator status of each existing and proposed well site.	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) N/A
[X] Check if project performed with current firm			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Kerry Wulff, CBC	13. ROLE IN THIS PROJECT CEI	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State)

CHA Consulting, Inc.
Tampa, FL

16. EDUCATION (Degree and Specialization) B.S., Engineering Technology A.S., Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Certified Building Contractor - FL OSHA Certified No. 36-600715837
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Water and Reclaimed Water Program Management Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction manager for system-wide potable water and reclaimed water main assessment and replacement program. This program includes the conceptual routing, design, permitting, and CEI for pipeline improvements to renew critical infrastructure and the assessment and replacement methods necessary to minimize impacts on service and critical roadways.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Clearwater Sanitary Program Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction manager for the city's six-year sanitary program. The total program has allocated over \$19 million for the professional services associated with the program. The program includes design, permitting, bidding, and construction oversight for point repairs and CIP repairs. The program also oversees the city's six continuing contractors, including a contractor for point repair, CCTV, manhole lining, gravity pipe lining, flow monitoring, and dyeing testing. The program also includes capital projects, such as sanitary sewer replacement, manhole replacement, lift station rehabilitation and replacement, septic-to-sewer projects, and other projects outlined in the city's master plan. Also serves as full-time RPR for approximately 90 sanitary sewer point repairs per year, averaging \$6 million in construction costs.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Southwest 6 and 7 Utility Expansion Project Cape Coral, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable) 2013
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction manager who managed a team of RPRs to facilitate the expansion of the water, wastewater and irrigation systems consisting of 14 contracts including value engineering, hydraulic modeling for water, wastewater and irrigation systems, design, permitting, bidding, construction management, public outreach and SRF funding assistance. Oversaw the daily activities of contractors to make sure that compliance with the project specifications, schedule and permit requirements for several hundred miles of potable water, wastewater collection, wastewater transmission, irrigation utility piping; 18 lift stations, stormwater collection system modifications and roadway reconstruction, and a stormwater canal pumping station to supplement reclaimed water.		<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Ernie Caldwell Reclaimed Water Main Improvements - Phase II Polk County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction manager for the preliminary and final design, permitting, bidding, and CEI to complete a reclaimed water main loop in the ECB and US Highway 17/92 corridors. The project installed 10,300 feet of 20-inch reclaimed water main within the Ernie Caldwell Boulevard corridor extending from Posner Center to a future roadway connection with Ridgewood Lakes Phase 2. The project included considering a future alignment of a 20-inch potable water main and a 16- to 20-inch wastewater force main that will parallel the reclaimed water main.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Reclaimed GST and Pump Station Haines City, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (if applicable) 2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction manager for a 7.8 MGD transfer pump station with VFDs and a concrete wet well, a 3-MG prestressed concrete GST, a new 4.5 MGD reclaimed high-service pump station with VFDs, an off-site 1.1 MGD booster pump station, yard piping, electrical, I&C, and ancillary structures at the Haines City WWTF.		<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT

(Complete one Section E for each key person.)

12. NAME Charles Warren	13. ROLE IN THIS PROJECT CEI	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State)

CHA CHA Consulting, Inc.
Melbourne, FL

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.)

AWS Professional Development (40 Hours), NEC Level 2 Burg Technician , PEC Safety Certification, Polyethylene Pipe certification F2620, Veriforce OQ Certified in Line Locates, Damage Prevention of Excavating and Backfill, Locate Buried Facilities, ROW Observation

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Water and Reclaimed Water Program Management Clearwater, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction inspector for a long-term, system-wide potable water and reclaimed water main assessment and replacement program. The city's vision is to complete a program where CHA will complete studies, design, RPR, and construction services for the following early projects: Loop various dead-end water and reclaimed water lines to enhance water quality; South Fort Harrison Avenue water mains replacement of 2,500 feet of 6- and 8-inch cast-iron pipe; SR-60 water main replacement of 10,700 feet of 20-inch concrete pipe; Drew Street water main replacement of 3,150 feet of 6-inch cast-iron pipe; Spring Creek water main replacement of aerial crossing at Betty Lane; Memorial Causeway reclaimed water main replacement of 8-inch cast-iron pipe; and additional hydraulic and water quality modeling.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION (City and State) Pineda Causeway Water Transmission Main Design Melbourne, FL	(2) YEAR COMPLETED	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Construction inspector for the installation of 39,800 feet of 16-inch water main with nine long, subaqueous directional drills that cross beneath the Indian River and Banana River. The Melbourne portion of the project comprises 20,400 feet of pipeline with five HDDs, and the Cocoa portion of the project comprises 19,400 feet of pipeline with four HDDs. The project replaced aging infrastructure, improved water quality, fireflow, and created redundancy for beachside residents.	PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable) 2022
c.	(1) TITLE AND LOCATION (City and State) Basic Energy, Guitar Ranch Pipeline Big Spring, TX	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Main inspector for construction oversight on the pipeline. The project included work on a 14-inch polyethylene line, two I-20 road bores and two feeder roads. Responsible for ordering materials, designing risers, placing valves, and inspection on-site.	PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) 2019
d.	(1) TITLE AND LOCATION (City and State) Howard Energy, Permian Oil Gathering Lateral Loving County, TX	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Main inspector for construction oversight of the 6-inch steel line weld inspection.	PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016
e.	(1) TITLE AND LOCATION (City and State) Lindsay SWD Booster Station Loving County, TX	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Main inspector for the installation of all piping at the station. Project included installing 8-inch polyethylene line, tying into existing lines and setting tanks.	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) 2017

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THE CONTRACT
(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS PROJECT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jason Hignite	Environmental	32	3

15. FIRM NAME AND LOCATION (City and State)

CHA Consulting, Inc.

Remote, FL

16. EDUCATION (Degree and Specialization)

 M.A., Natural Resources and Environmental Management
 B.G.S., Liberal Arts

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

 Certified Environmental Consultant, Indiana Department of Transportation/
 Federal Highway Administration

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

National Association of Environmental Professionals; American Association of Aviation Executives: Environmental Committee; Aviation Consultants Council: Environmental Committee; Florida Airports Council: Environmental Committee

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	Memorial Causeway Abandoned Transmission Main Permitting Clearwater, FL	2022	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Environmental scientist for the design and permitting to slipline a water main in an abandoned subaqueous force main across navigable waters. This includes field reconnaissance, seagrass survey, wetlands delineation based on USACE requirements, and subsequent preparation of FDEP Section 401 and USACE 404 permit applications.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Florida Bonneted Bat Limited Roost Survey, 71st Street Pedestrian Bridge South Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project manager who visually inspected tree canopies within the project area for the presence of roosting Florida bonneted bats.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Phase II Environmental Site Assessment, 71st Street Pedestrian Bridge South Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project manager for the subsurface investigation for the presence of contaminants underlying the intersection of SW 71st Street and US-1 for the proposed pedestrian bridge project.		
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Wetland Determination, North County Utilities Extension St. Lucie County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project manager who inspected the area along the proposed waterline route adjacent to US-1 in northern St. Lucie County.		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Wetland Determination, Sheridan Road Improvement Project Hollywood, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project manager who inspected 2.7 miles of adjacent roadway corridor for the presence of wetland features for a proposed improvement project.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS OF EXPERIENCE	
Michael W. Patterson, PSM	Surveying and Mapping	a. TOTAL 22	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State)			
ECHO UES, Inc., Tampa, Florida			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
Bachelor of Science (BS) / College of Engineering - Pennsylvania State University (2001) - Surveying		Professional Surveying - Florida - #6560	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
Florida Surveying and Mapping Society			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Golfview Flooding Relief Project - Tampa, FL		PROFESSIONAL SERVICES 2022-Current	CONSTRUCTION (If applicable)
a.	<p>BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>This project consists of installing a storm sewer system and waterline replacement to alleviate flooding in the Golfview neighborhood in Tampa. ECHO currently provides survey, subsurface utility engineering, and utility coordination services for this project. Mr. Patterson serves as survey lead.</p>		
<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
City of Largo Starkey Road BMP - Largo, FL		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)
b.	<p>BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>Mr. Patterson was the survey lead for the utility survey effort for this project which consisted of design services for drainage improvements along two (2) ditches in the City of Largo. ECHO's professional services were requested to provide topographic survey in these areas to assist with subsequent design and construction activities.</p>		
<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Don Jose St at S Maritana Dr (Seawall Repair) and Drainage Analysis – St. Petersburg, FL		PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable)
c.	<p>BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>This project consisted of engineering planning and design services for the repair of an existing seawall repair at the Don Jose St. at S. Maritana Dr., and a drainage structure analysis along Belle Vista Dr., in Pinellas County. ECHO's professional services were requested to provide subsurface utility engineering and survey services for the location of existing underground utilities (i.e. fiber optic cables, water, reclaimed water, etc.) in the vicinity of the proposed design and construction. Mr. Patterson served as the survey lead for this project.</p>		
<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Anclote Rd. from Alt. US 19 to Anclote Blvd (Roadway and Stormwater Improvements) - Pinellas County, Florida		PROFESSIONAL SERVICES 2021-2022	CONSTRUCTION (If applicable)
d.	<p>BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>Mr. Patterson was the survey lead provided surveying services for this project. ECHO assisted in re-establishing the Anclote Road survey baseline record R/W and recovered baseline monumentation, utility mapping, reference points, and section corners. The data ECHO provided assisted the engineer of record in the design and R/W acquisition activities for the project.</p>		
<input checked="" type="checkbox"/> Check if project performed with current firm			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Sanitary Sewer Connections, North Holly Ave. - Orange City, FL		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)
e.	<p>BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <p>This project consisted of design services for a septic to main sewer line connection for 12 parcels owned by Orange City, and 19 private parcels located along North Holly Ave. and E. Blue Springs Ave. As part of the design, a new topographical and utility survey was requested. ECHO was requested to investigate the presence and location of existing utilities within the project limits. Mr. Patterson served as Survey QAQC.</p>		
<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.)

<p>12. NAME Wayne S. Driggers</p>	<p>Geotechnical Engineer</p>	<p>14. YEARS EXPERIENCE a. TOTAL 28 b. WITH CURRENT FIRM 28</p>
<p>15. FIRM NAME AND LOCATION (<i>City and State</i>) Driggers Engineering Services, Inc., Clearwater, Florida</p>		
<p>16. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BS - Civil-Engineering, University of South Florida Masters Studies - Geotechnical-Engineering, University of South Florida</p>		<p>17. CURRENT PROFESSIONAL REGISTRATION (<i>STATE AND DISCIPLINE</i>) Professional Engineer, State of Florida No. 58013</p>
<p>18. OTHER PROFESSIONAL QUALIFICATIONS (<i>Publications, Organizations, Training, Awards, etc.</i>)</p>		
19. RELEVANT PROJECTS		
<p>(1) TITLE AND LOCATION (<i>City and State</i>) Water Main replacement, Aerial Crossing, Clearwater Country Club, Florida</p>		<p>(2) YEAR COMPLETED PROFESSIONAL SERVICES 2024 CONSTRUCTION (<i>If applicable</i>)</p>
<p>a. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE As subconsultant to CHA Consulting, Inc., A series of borings was conducted at the creek crossings for the planned pipeline construction with each pipe supported by a 14-inch prestressed concrete pile. Provided results of the investigation together with general recommendations for consideration.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>) City of Dunedin – Water main, Virginia St., Dunedin, Florida</p>		<p>(2) YEAR COMPLETED PROFESSIONAL SERVICES 2024 CONSTRUCTION (<i>If applicable</i>)</p>
<p>b. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE An investigation of subsurface conditions was conducted along the potential alignment of the proposed pipe alignment. A force main segment is planned that crossed Memorial Causeway and will consist of a combination of 8-inch HDPE and 8-inch Ductile Iron (DI) pipe. The majority of the installation will occur through a horizontal directional drill (HDD) across the traffic lanes with the shorter sections directly embedded (open cut) 8-inch DI pipe depicted within the road right-of-way.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>) Subaqueous Water Main Crossing, Pass-A-Grille Pass, Pinellas County, Florida</p>		<p>(2) YEAR COMPLETED PROFESSIONAL SERVICES 2024 CONSTRUCTION (<i>If applicable</i>)</p>
<p>c. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE A subsurface soil investigation was conducted which include land and marine test borings for the installation of a nominal 16-inch diameter water transmission main using primarily horizontal directional drilling (HDD). Presented results of our field and laboratory tests together with a discussion of our findings and recommendations.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>) Water Main Replacements (Task 12), Multiple phases, Clearwater, Florida</p>		<p>(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 - 2023 CONSTRUCTION (<i>If applicable</i>)</p>
<p>d. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE As a subconsultant to CHA Consulting, Inc., A geotechnical investigation was conducted for the various phases of planned water main construction installed by open-cut direct embedment over much of the pipeline alignments. Provided results of our field and laboratory studies with discussion of our findings and associated geotechnical design and construction considerations.</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>) City of Dunedin Force Main Replacement, Dunedin, Florida</p>		<p>(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (<i>If applicable</i>)</p>
<p>e. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE An investigation of subsurface conditions was conducted along the alignments of the proposed piping. The force main replacement consisted of placement of 6-inch to 10-inch PVC pipe installed by open cut direct embedment with a nominal 3-4 feet of cover. Provided results of our field and laboratory studies together with discussion of findings and associated geotechnical design and construction considerations.</p>	<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 Michelle Robinson, APR	13. ROLE IN THIS CONTRACT Senior Public Relations Counselor	14. YEARS EXPERIENCE a. TOTAL 31	b. WITH CURRENT FIRM 17
15. FIRM NAME AND LOCATION (City and State) Dialogue Public Relations, LLC Clearwater, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) BA, Public Relations - Speech Communication/ Journalism	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) APR accreditation, Public Relations Society of America (PRSA). <u>Publications/Presentations</u> : WEFTEC 2022 – P3 Doesn't Mean "Privatization:" How to Communicate this to Rate Payers; Contributing author, American Water Works Association M50 Manual: Water Resource Planning (1999, 2009, 2017); PRSA Sunshine District, 2019 – When Should Product be Priority Over Brand; National Academy of Sciences, Committee on Advancing Desalination Technology, 2007 - Communication Lessons from the Frontline of Desal Plant Development; American Water Works Association: 2010: Show Me the Info!; American Water Works Association Research Foundation (AWWARF): "A Guide for the Implementation and Use of Chloramines;" National subcommittee member - risk communications for disinfection byproducts; <u>Awards</u> : PRSA Prestige Award, 2019, 2018 and 2017; PRSA Bronze Anvil, 2015; Silver Anvil Award of Excellence, July 2003; <u>Training</u> : NIMS ICS 100, ICS 200 and ICS 700; Harvard Program on Negotiation: Dealing with an Angry Public.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) City of Tampa South Howard Flood Relief Project Tampa, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES Jan. 2023-Dec. 2024	CONSTRUCTION (if applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Public outreach consultant for preliminary public engagement on major stormwater conveyance system. Efforts included working with City staff to develop initial outreach plan, identifying key stakeholders, creating a map handout and frequently asked questions, meeting with community group leadership, coordinating and conducting a community leadership forum and public meeting, meeting one-on-one with businesses along the proposed route, and fielding stakeholder inquiries. City Council approved proceeding with project design under a design-build contract in December 2024. Outreach for the project will transition to the design-build team in January.		
b.	(1) TITLE AND LOCATION (City and State) City of Tampa Southeast Seminole Heights Flooding Relief Project, Tampa, FL		
b.	(2) YEAR COMPLETED PROFESSIONAL SERVICES Nov. 2019 - March 2023		
b.	CONSTRUCTION (if applicable) N/A		
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Public information subconsultant for the team designing and building stormwater conveyance systems in Tampa's Seminole Heights area. Efforts include writing public information materials; designing, launching and maintaining a project website and hotline; door hangers to nearly 700 addresses along the proposed routes; one-on-one meetings with interested residents; multiple public meetings and community group presentations; traffic advisories, social posts and web alerts. Construction began in late 2021; Dialogue's work concluded March 2023; construction continues.		
c.	(1) TITLE AND LOCATION (City and State) Pinellas County Redundant Force Main Project Pinellas County, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES May 2016 – Sept. 2021
c.	CONSTRUCTION (if applicable) N/A		
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Public outreach subconsultant for the siting, design and construction of a 3.4-mile wastewater force main from PS 16 to the South Cross Bayou WRF. Efforts included developing and implementing the outreach program and messages; scheduling and attending one-on-one briefings during design; planning, conducting and attending two public meetings; developing project fact sheets and FAQs; working with Pinellas County Communications to post information on the County's web site and distribute news releases; planning and implementing pre-construction telephone town hall meeting; weekly construction updates. Construction began April 2020; completed in mid-2021.		
d.	(1) TITLE AND LOCATION (City and State) Tampa Bay Water Long-term Master Water Plan Update Clearwater, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES Oct. 2022 – Dec. 2023
d.	CONSTRUCTION (if applicable) N/A		
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Public engagement subconsultant for the regional water supply wholesaler's long-term plan update. Efforts included conducting a statistically valid public opinion survey; conducting five focus groups among member government customers; convening and facilitating eight ad hoc committee meetings with technical, economic and environmental stakeholders; developing a speakers' bureau presentation and attending speaking engagements; writing public information materials; compiling input into the plan for board approval. The plan was approved in December 2023.		
e.	(1) TITLE AND LOCATION (City and State) San Carlos Pumping Station Rehabilitation Project Tampa, FL		(2) YEAR COMPLETED PROFESSIONAL SERVICES Oct. 2018 – July 2021
e.	CONSTRUCTION (if applicable) N/A		
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Public outreach subconsultant for rehabilitation and upgrade of pump station that handles one-third of the City of Tampa's wastewater. Efforts included designing, writing, launching and maintaining a project-specific website; planning, coordinating and implementing two public meetings; one-on-one meetings with key stakeholders; coordinating and attending meetings with the area neighborhood association; construction information updates via website and door hangers; creating social posts for City distribution; maintaining two-way communication via email and hotline.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Robin Bizjack, APR	13. ROLE IN THIS CONTRACT PR Project Manager	14. YEARS EXPERIENCE a. TOTAL 31	b. WITH CURRENT FIRM 5
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15. FIRM NAME AND LOCATION (*City and State*)
Dialogue Public Relations, LLC Clearwater, FL

16. EDUCATION (*DEGREE AND SPECIALIZATION*)
BS, Journalism/Public Relations, Arkansas State University

17. CURRENT PROFESSIONAL REGISTRATION (*STATE AND DISCIPLINE*)

18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*)
APR accreditation, Public Relations Society of America (PRSA). Certifications: APR accreditation, Public Relations Society of America (PRSA); Change Management Practitioner certification, APMG International. Awards: League of American Communications Professionals (LACP) Inspire Award for Employee Communications Excellence, Publix News, multiple years; LACP Top 50 Employee Publication, Publix News: 2003, 2005, 2007; Academy of Interactive and Visual Arts (AIVA) Communicator Award for Corporate Communications: Publix News 2002-2005; Publix Long-Term Disability Open Enrollment Guide 2003; Print Media Distinction 2006, 2007.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (<i>City and State</i>) City of Tampa Southeast Seminole Heights Flooding Relief Project, Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Nov. 2019-March 2023	CONSTRUCTION (<i>if applicable</i>)
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a. (3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE
Public information subconsultant for the team designing and building stormwater conveyance systems in Tampa's Seminole Heights area. Efforts include writing public information materials; updating the project website; assisting with multiple public meetings; staffing the project hotline; fielding, logging and tracking resident concerns and complaints; creating and disseminating construction information door hangers to keep residents apprised; creating traffic advisories, social posts and web alerts. Construction began in late 2021. Dialogue's work concluded March 2023; construction continues.

Check if project performed with current firm

(1) TITLE AND LOCATION (<i>City and State</i>) Lift Station 87 Wet Weather Flow Transfer Project St. Petersburg, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Oct. 2021 – June 2022	CONSTRUCTION (<i>if applicable</i>)
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b. (3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE
Public outreach support for the design, permitting and construction of a new wet weather lift Station in the Childs Park area of St. Peterburg as well as a new pipeline to connect the new lift station to the Pasadena Master Pump Station. Efforts included working with City staff to publicize virtual public meetings, creating and updating web copy for the City to post on its website; assisting the City with targeted community outreach; creating and disseminating door hangers during construction; and fielding stakeholder calls and emails during construction. Project received DBIA 2023 National Award of Merit in Water/Wastewater and ENR Southeast Award of Merit.

Check if project performed with current firm

(1) TITLE AND LOCATION (<i>City and State</i>) San Carlos Pumping Station Rehabilitation Project Tampa, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Dec. 2019 – July 2021	CONSTRUCTION (<i>if applicable</i>)
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c. (3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE
Public outreach subconsultant for rehabilitation and upgrade of pump station that handles one-third of the City of Tampa's wastewater. Efforts included designing, writing, launching and maintaining a project-specific website; planning, coordinating and implementing two public meetings; one-on-one meetings with key stakeholders; coordinating and attending meetings with the area neighborhood association; construction information updates via website and door hangers; creating social posts for City distribution; maintaining two-way communication via email and hotline.

Check if project performed with current firm

(1) TITLE AND LOCATION (<i>City and State</i>) City of St. Petersburg Tarpon Outfall Aerial Crossing Safety Harbor/Oldsmar FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES Nov. 2023 – current	CONSTRUCTION (<i>if applicable</i>)
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d. (3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE
Public information subconsultant for the construction team that is replacing the aerial pipe crossing the Tarpon outfall canal with an underground pipe installed via HDD from the Oldsmar side to the Safety Harbor side. Efforts included writing public information materials, including a project handout, presentations, web content and door hangers; coordinating public meetings with communities abutting the pipeline easement; coordinating pre-construction inspections; drafting updates for the communities' newsletters; and staffing the project hotline. Construction began in February 2025, and Dialogue PR has created and distributed construction information door hangers to keep residents apprised, posted construction yard signs and continue staffing the project hotline and email.

Check if project performed with current firm

(1) TITLE AND LOCATION (<i>City and State</i>) Pinellas County Redundant Force Main Project Pinellas County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES May 2016 – mid-2021	CONSTRUCTION (<i>if applicable</i>)
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e. (3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE
Provided public outreach support for this a 3.4-mile wastewater force main from PS 16 to the South Cross Bayou WRF. Efforts included developing stakeholder databases; drafting and reviewing materials; assisting with community outreach meetings; developing social media content; drafting a weekly construction update for posting on the County's website; fielding calls and emails from concerned residents; meeting with key stakeholders regarding construction.

**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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (City and State)

Force Main and ARV Replacement – Disston Avenue and Klosterman Road
Pinellas County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2020

CONSTRUCTION (if applicable)
2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Pinellas County	Dennis Simpson, PE	(727) 464-4223

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

Pinellas County was interested in initiating a program to replace ARVs that had been found to be inactive or in poor operating condition. In addition to the ARV replacements, the county was interested in replacing force main sections associated with ARVs that were found to be in poor condition.

CHA provided condition assessment services to evaluate ~30,000 feet of the 30-inch force main from Keystone Road to Klosterman Road. Along this force main, CHA's evaluation specifically quantified two sections, one on Klosterman Road at ARV 36GS-SA4000 and one on Disston Avenue at ARV 36GN-SA2750, which exhibited severe pipe wall loss (<40% wall remaining). The county was interested in quickly replacing these two force main segments, initially including 80 feet of 30-inch force main on Disston Avenue and 80 feet of 30-inch force main on Klosterman Road.

CHA provided detailed design, permitting, and CEI services to replace the force main section and relocate the existing ARVs from below-ground manholes to above-grade enclosures. As part of the detailed design, CHA developed a detailed bypassing plan using bypass-through-linestops to maintain wastewater service through the duration of the pipeline replacement.

During early construction activities, CHA additionally provided further condition assessment services to assess segments of the force main that had not been tested previously during the initial evaluation. The assessment before construction indicated that additional sections (~690 feet) of the force main were in poor condition and should be replaced as part of the project.

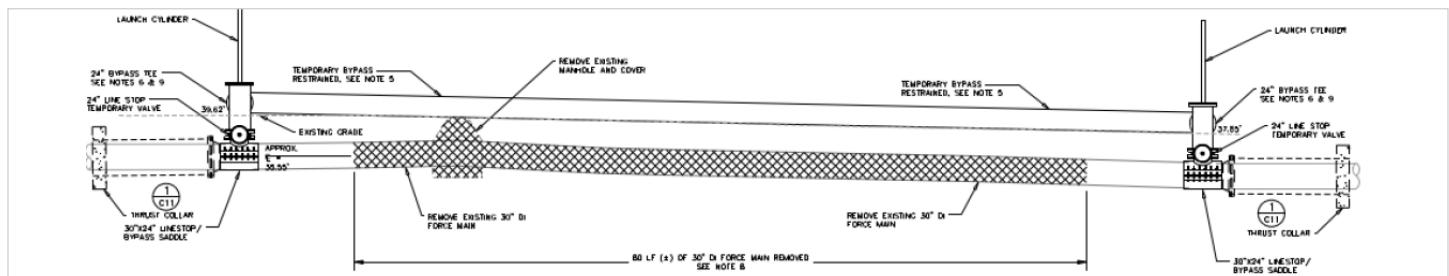
RELEVANCE TO SCOPE

- ✓ Within Pinellas County
- ✓ Force main design
- ✓ Wastewater bypassing
- ✓ MOT
- ✓ Permitting

COST

CHA Fee: \$115,686

Construction Cost: ~\$1.5M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

2

21. TITLE AND LOCATION (City and State)

Palm Harbor Transmission Force Main Assessment (Klosterman Road, Pinellas Trail, and Camelot Court Force Mains)

Pinellas County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2020

N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Pinellas County	Dennis Simpson, PE	(727) 464-4223

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

Pinellas County was interested in initiating a program to replace ARVs that had been found to be inactive or in poor operating condition. In addition to the ARV replacements, the county was interested in replacing force main sections associated with ARVs that were found to be in poor condition.

As a continuation of a previous project by CHA, which tested over 30,000 feet of 30-inch force main from Keystone Road to Klosterman Road, CHA performed a condition assessment using UTT along multiple force mains within the Palm Harbor region of North Pinellas County. This included ~5,140 feet of 30-inch ductile iron force main on Pinellas Trail, ~3,180 feet of 30-inch ductile iron force main on Klosterman Road, and ~1,370 feet of 20-inch ductile iron force main on Camelot Court. Throughout inspection, CHA coordinated with ECHO UES, Inc. (ECHO), who performed the force main location efforts and SUE to expose the force main for testing.

The results of the evaluation concluded that several sections of the force main have reduced pipe wall thickness due to corrosion and were subsequently recommended for repair and/or replacement.

RELEVANCE TO SCOPE

- ✓ Within Pinellas County
- ✓ Force main condition assessment
- ✓ Cost estimation

COST

CHA Fee: \$196,861

Construction Cost: N/A



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime
b.	(1) FIRM NAME ECHO UES, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Subconsultant

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

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION (City and State)

Ernie Caldwell Reclaimed Water Main Improvements - Phases I & II

Polk County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2022

2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Polk County Utilities	Tamara Richardson	(863) 298-4214

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

In 2016, Polk County completed an update to the Northeast Regional Utility Service Area (NERUSA) reclaimed water master plan that recommended several projects intended to increase the area served by reclaimed water and increase reliability by completing a reclaimed water main loop in the ECB and US Highway 17/92 corridors. Phase I consists of approximately **10,300 feet of 20-inch diameter reclaimed water main** within the ECB corridor extending from Posner Center to a future roadway connection. The project includes stub-outs to future development within the ECB corridor. Additionally, the project included the future alignment of a **20-inch potable water main and 20- to 16-inch wastewater force main that parallels the new 20-inch reclaimed water main in the ECB corridor**. The county obtained easements along the south side of the ECB ROW, where it was feasible to accommodate the alignment of the proposed utilities in this corridor. CHA provided the preliminary and final design, permitting, bidding, and construction phase services for approximately 10,300 feet of new 20-inch reclaimed water main within the ECB corridor, extending from Posner Center to a future roadway connection with Ridgewood Lakes Phase II. The project includes stub outs to future development within the ECB corridor. CHA was selected via the CCNA procurement and also performed the design and construction services for Phase II of the improvements.

Phase II completed a loop of the reclaimed water system in this portion of the NERUSA. The project (NERUSA Master Plan RW6 and RW31) consisted of approximately **16,100 feet of reclaimed water main** within the ECB corridor extending from west of Pine Tree Trail to US 17-92 and **4,300 feet of reclaimed water main** within the US 17-92 corridor from ECB north to Sunny Acres Road. In addition to these reclaimed water main improvements, CHA provided preliminary design services for future potable water and wastewater main extensions in the ECB corridor to coordinate these improvements with the Phase II reclaimed water main improvements. CHA also provided preliminary design services for a future master triplex pump station (plumbed for a quadplex) to be located on the south side of ECB, west of Pine Tree Trail.

The project included stub-outs to future developments within the ECB corridor. In addition, CHA provided preliminary design services for a 20-foot-wide easement along the south side of the ECB ROW to accommodate the alignment of the proposed utilities in this corridor.

RELEVANCE TO SCOPE

- ✓ Force main design
- ✓ Permitting
- ✓ Construction-phase services

COST

CHA Fee: \$311,430 (Ph. I)
\$183,253 (Ph. II)

Construction Cost: ~\$2.8M (Ph. I)
~\$3.1M (Ph. II)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime
b.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Winter Haven, FL	(3) ROLE Prime

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

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

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (City and State)

Storey Park/Innovation Place Utility Project

Orange County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2019

2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Orange County Utilities	Andres Salcedo, PE	(407) 254-9719

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

Orange County has been progressively implementing a program to expand the capacity of its potable water and water reclamation infrastructure systems. As part of these efforts, the county has been constructing numerous transmission mains to increase system hydraulic capacity, provide operational flexibility, and provide system reliability for water, wastewater, and reclaimed water customers in southeast Orange County. These improvements provide the means to interconnect adjacent service areas. This project was part of the county's system strategy, which included the East Service Area (ESA) Potable Water and Reclaimed Water Storage and Repump Facility project, the Lee Vista Boulevard to Innovation Way transmission main project, and the South Service Area (SSA)/ESA Potable Water and Reclaimed Water Main projects. Specifically, the Storey Park project included the installation of potable water and reclaimed water mains to address projected future potable and reclaimed water consumptive and fire protection needs and to provide a means of moving potable water from the Eastern Regional Water Supply Facility to the ESA Storage and Repump Facility. This project also provides a way to move wastewater generated by future development and an existing development located south of Wewahootee Road to the county's Eastern WRF. **The project included approximately 9,000 feet of 24-inch to 36-inch water main and 20-inch to 30-inch force main installed within utility easements and future ROW. The project also included a 318-foot railroad ROW crossing of 36-inch water main carrier pipe using a 54-inch steel casing constructed by the jack-and-bore method. The project also included a 318-foot railroad ROW crossing of a 20-inch reclaimed water main carrier pipe using a 36-inch steel casing constructed by the jack-and-bore method.** CHA's services included preliminary design, final design, permitting, and construction management for the potable water mains, reclaimed water mains, and force mains that predominantly follow the alignments of the Innovation Way North and South roadways.

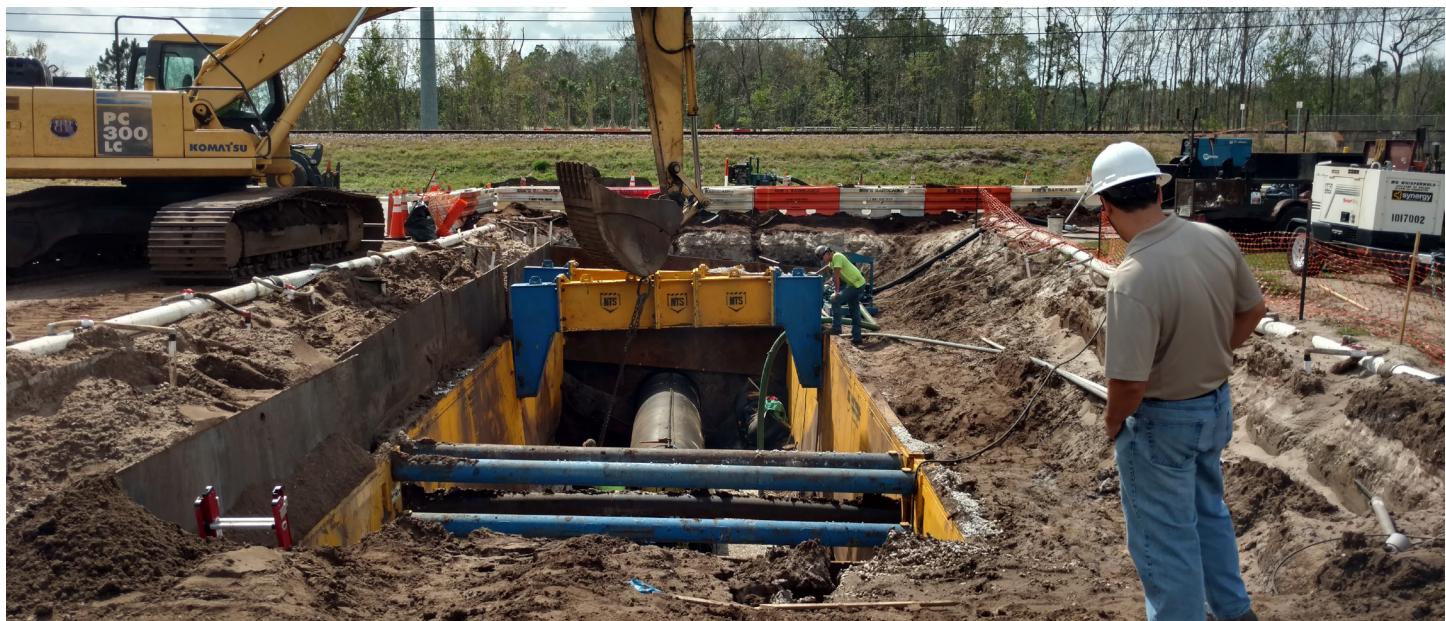
RELEVANCE TO SCOPE

- ✓ Force main design
- ✓ Permitting
- ✓ Trenchless installation

COST

CHA Fee: \$1.05M

Construction Cost: ~\$3.6M
(Part A only)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Winter Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION (City and State)

World Drive Extension Utility Relocation (Phase I)

Lake Buena Vista, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2020

2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Central Florida Tourism Oversight District (formerly Reedy Creek Improvement District)	Jason Herrick, PE	(407) 824-4759

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

This project consisted of relocating and upsizing the existing 12-inch reclaimed water and potable water mains with 5,100 feet of 20- and 30-inch reclaimed water and potable water mains within the county ROW via open-cut and HDD. CHA provided preliminary engineering, consisting of draft and final pipeline alignment drawings with conceptual routing, proposed installation methods, and a conceptual engineer's OPCC. Final design services included the incorporation of survey, geotechnical, and other information into the construction drawings and specifications for the proposed pipeline. CHA led the preparation of the 60%, 90%, and 100% design documents, including construction cost estimates, attendance at review meetings, and cost estimates. Construction administration included participating in the pre-construction and progress meetings, site visits, shop drawing and RFI review, RFI responses, substantial and final completion inspections, FDEP clearance, and preparing record drawings.

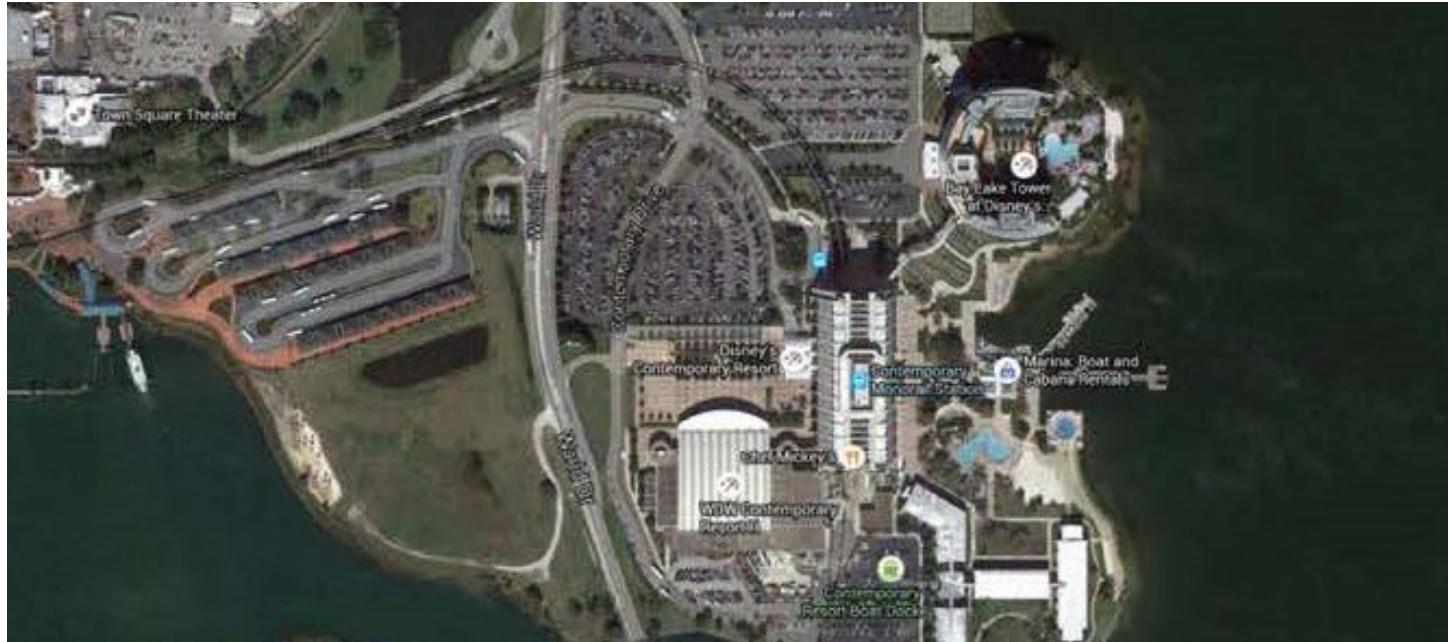
RELEVANCE TO SCOPE

- ✓ Pipeline design
- ✓ Permitting
- ✓ Trenchless installation

COST

CHA Fee: \$159,181

Construction Cost: ~\$2.0M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	CHA Consulting, Inc.	Winter Springs, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

6

21. TITLE AND LOCATION (City and State)

Osceola Parkway Interchange Flyover Design

Lake Buena Vista, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2018

2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Central Florida Tourism Oversight District (formerly Reedy Creek Improvement District)	Jason Herrick, PE	(407) 824-4759

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

This project involved **relocating and upsizing 11,110 feet of 16-inch potable water, reclaimed water, and force main within county ROW via open-cut and HDD**. CHA provided preliminary engineering, consisting of draft and final pipeline alignment drawings with conceptual routing, proposed installation methods, and a conceptual engineer's OPCC; final design services, including the incorporation of survey, geotechnical, and other information into the construction drawings and specifications for the proposed utilities; preparation of the 60%, 90%, and 100% design documents, including construction cost estimates and attendance at review meetings; construction administration, including participating in the pre-construction meeting and progress meetings, site visits, shop drawing and RFI review, RFI responses, substantial and final completion inspections, FDEP clearance permit applications, and preparing record drawings. Skills similar in nature to those required in the scope of services for this RFQ included relocating and upsizing utilities due to roadway re-alignment and expansion, existing condition evaluation, and survey and geotechnical data incorporation into the bidding documents; preparing the PDR, bidding documents, and cost estimate; permitting with FDEP; and assisting the owner with bidding- and construction-phase services.

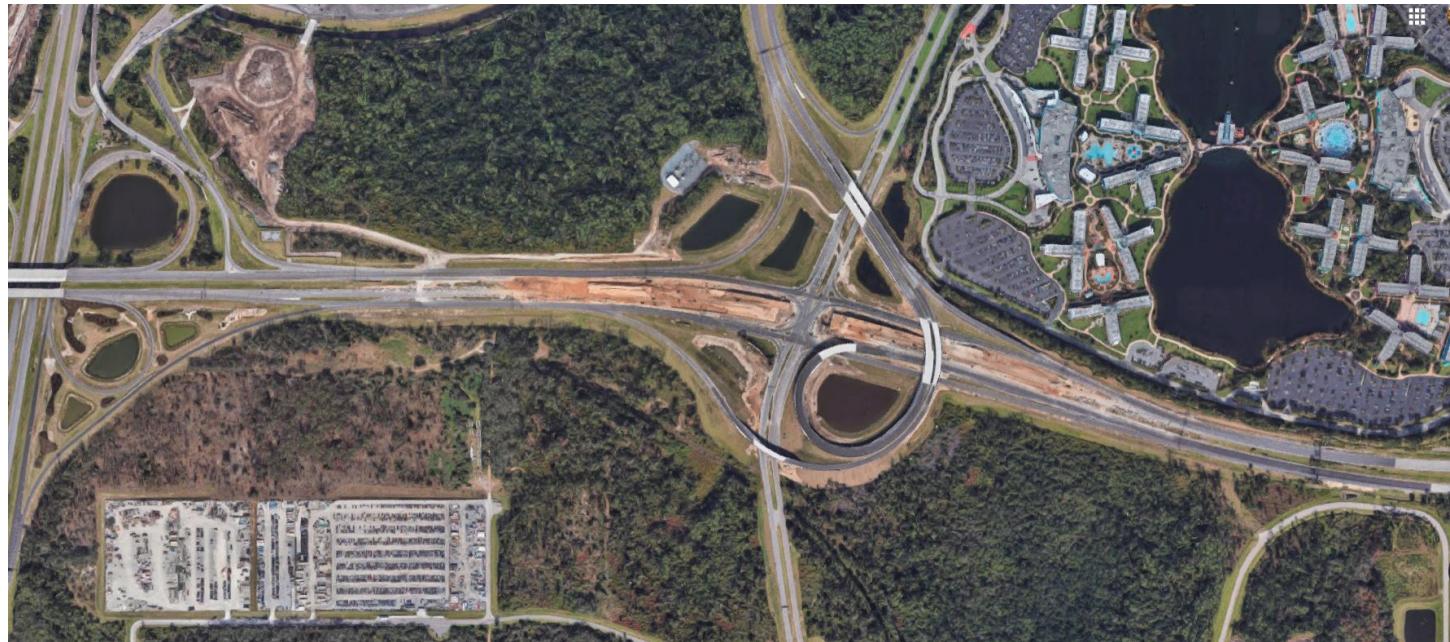
RELEVANCE TO SCOPE

- ✓ Force main design
- ✓ Permitting
- ✓ Trenchless installation

COST

CHA Fee: \$170,390

Construction Cost: ~\$4.0M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Winter Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION (City and State)

Seminola Force Main Replacement and Pump Station Relocation

Casselberry, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020 (Force Main)

2022 (Pump Station)

CONSTRUCTION (if applicable)

2020 (Force Main)

2022 (Pump Station)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Casselberry

b. POINT OF CONTACT NAME

Kelly Hans Brock, PE

c. POINT OF CONTACT TELEPHONE NUMBER

(407) 262-7725 ext. 1235

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

The City of Casselberry recently evaluated the capabilities of the Seminola master lift station basin to handle the projected growth in its wastewater collection master plan. The plan determined that the 10-inch force main that transferred flow from the Seminola master lift station to the city's WWTP needed to be up-sized to a 16-inch force main to handle projected future growth. Additionally, the existing 10-inch force main was constructed with substandard pipe materials, which were prioritized for replacement due to their potential for structural failure. It was also determined the Seminola master lift station needed to be up-sized to handle the expected increase in wastewater flow. The lift station renovations required the city to purchase a parcel adjacent to the lift station to expand the size of the station site from its original parcel. The proposed design included installing a new triplex lift station with a new wet well and converting the existing wet well to an influent manhole.

The tasks performed under this scope included the preliminary design, final design, permitting, bidding, and limited construction services to replace **4,800 feet of force main from the Seminola master lift station with a new 16-inch force main, relocating the existing Seminola master lift station.** CHA conducted preliminary routing analysis and hydraulic modeling to verify proper sizing and pressure conditions. The force main route includes a water body crossing and is located on a busy county road, traversing congested, high-traffic corridors. CHA provided MOT planning to minimize impacts to residents and traffic. **Installation methods included traditional open-cut, HDD, and jack-and-bore.**

The master lift station relocation included demolishing the existing lift station, except for the existing wet well. The new lift station included a triplex lift station with submersible pumps, pump guide rails, single wet well, liner, access hatches, discharge piping, electrical and controls, an emergency generator, miscellaneous piping and appurtenances, a new access drive, fencing, and landscaping. Permitting included FDEP and Seminole County ROW applications.



RELEVANCE TO SCOPE

- ✓ Force main design
- ✓ Permitting
- ✓ Trenchless installation

COST

CHA Fee: \$116,802 (Force Main)
\$332,662 (Pump Station)

Construction Cost: ~\$2.7M
(Combined FM & PS)

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	CHA Consulting, Inc.	Winter Springs, FL	Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION (City and State)

86th Avenue Water Main Replacement

Pinellas County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

Ongoing

TBD (Est. 2027)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Pinellas County	Dennis Simpson, PE and/or Mohammed Bargothi (Jacobs)	(727) 464-4223

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

Pinellas County is one of the most densely populated counties in the state of Florida. The county has significant goals for maintaining its utilities (water, wastewater, and reclaimed water) for its customers. A significant amount of the water distribution system is nearing end of useful life, with older cast iron and galvanized material pipe remaining. The county consistently initiates efforts to replace this older pipe material to maintain potable water services.

This project includes approximately **19,500 feet of water main ranging from 2 inches to 12 inches in diameter** in the 86th Avenue area of the unincorporated Seminole. The area is highly populated and congested, which required additional considerations for trenchless installation methods and constructability. **This work includes connections to the existing potable water distribution system, removal and replacement of fire hydrants, replacement of existing water services, installation of new gate valves and other appurtenances, and restoration of roads, sidewalks, driveways, landscaping, and other features disturbed by the construction of the water main.**

Throughout design, CHA collaborated with the county to include their design preferences, including direct connections while operating existing valves, trenchless design methods, and more. CHA also coordinated with the county to utilize public work-based pay items for alignment with purchasing and contracting standards and preferences.

RELEVANCE TO SCOPE

- ✓ Within Pinellas County
- ✓ Pipeline design
- ✓ Permitting
- ✓ Trenchless installation
- ✓ Cross-coordination with Public Works Department

COST

CHA Fee: \$399,934

Construction Cost: ~\$7M (est.)



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Tampa, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION (City and State)

C-200 PVC Force Main Replacement

Seminole County, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2018

2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
SSNOCWTA	Ed Gil de Rubio (<i>Former Director</i>)	(401) 484-3159

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

To assist with the management and maintenance of the system, SSNOCWTA contracted CHA to develop a scope and fee estimate for developing a preliminary design report associated with replacing C-200 PVC force main piping throughout the SSNOCWTA transmission system.

Various segments of the SSNOCWTA transmission system are composed of C-200 PVC piping, which is characterized by a thin wall thickness. The majority of the transmission system was installed over 25 years ago and has been experiencing a steady increase in flows and pressures. The increased flows and pressure add stress to an aging transmission system and place pipeline segments with thin wall thickness at a higher risk of failure. Force main failures within the SSNOCWTA system, like any other wastewater transmission system, resulting in expensive repairs and emergency situations to maintain a functioning wastewater transmission system.

The preliminary design report reviewed the existing C-200 piping locations and routes and provided recommendations on the installation procedures based on the piping's location before commencing the design.

CHA also provided design, permitting and construction administration of this pipeline replacement project. The preliminary design report included evaluating replacement techniques for approximately **22,000 feet (ranging in size from 12-inch to 20-inch)** located throughout residential and commercial areas. The design made use of HDD, pipe bursting, and jack-and-bore techniques to minimize above-ground disturbances.

RELEVANCE TO SCOPE

- ✓ Force main replacement design
- ✓ Permitting
- ✓ Construction-phase services

COST

CHA Fee: \$298,844

Construction Cost: ~\$3.66M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Winter Springs, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(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 on Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION (City and State)

18-inch Subaqueous Pipeline Design

Vero Beach, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

2025

2025

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Vero Beach	Rob Bolton	(772) 978-5220

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

The City of Vero Beach constructed approximately 3,500 feet of 18-inch stormwater main under the Indian River Lagoon from Gifford Dock Park to Bee Gum Point. The pipeline was a subaqueous installation installed via horizontal directional drill (HDD) with DR 11 HDPE pipe. CHA provided preliminary and final design, permitting, and construction-phase services for this project. Services included:

- Performing a topographic survey of the proposed construction corridor.
- Providing a sketch of description of land bounded by the safe upland line, an approximately 20-foot-wide stormwater main/utility easement width and extending approximately 3,500 feet within the Indian River Lagoon.
- Performing a geophysical survey of the proposed construction corridor to obtain a sub-bottom river profile.
- Obtaining sonar imagery to precisely locate specific objects and features exposed on the bottom and to map varying sediment types.
- Performing a differential magnetic intensity survey for archaeological assessment and to assess the potential for interference with HDD tracking systems that rely on magnetic guidance.
- Performing an ecological investigation to identify existing wetlands and any threatened or endangered species within the project corridor.
- Performing a submerged aquatic resource survey.
- Developing a report documenting the ecological conditions present within the proposed construction corridor including recommendations for mitigation measures if necessary.
- Providing geotechnical engineering investigations along the proposed construction corridor.
- Performing two test borings to 50 feet below the riverbed at the beginning and ends of the HDD section.
- Performing eight borings to 140-foot-depth below the riverbed.
- Permitting included the FDEP Individual Statewide Environmental Resource Permit (ERP), FDEP Sovereign Submerged Lands Public Easement, and the US Army Corps of Engineers (USACE) Regional General Permit SAJ-14, Subaqueous Utility and Transmission Lines in Florida.

CHA completed 60%, 90% and 100% drawings, specifications, and opinion of probable construction cost (OPCC). CHA also assisted the city with permitting services and construction-phase services. In addition, CHA designed the stormwater pump station that will supply this HDD.

RELEVANCE TO SCOPE

- ✓ Pipeline design
- ✓ Permitting
- ✓ Construction-phase services

COST

CHA Fee: \$644,737

Construction Cost: ~\$3.15M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME CHA Consulting, Inc.	(2) FIRM LOCATION (City and State) Melbourne, FL	(3) ROLE Prime
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Weston Haggen, PE, DBIA, ENV SP, PMP	Project Manager	X	X	X	X		X	X		X	X
Arnelio Alfonso, PE	Technical Advisor								X		
Stefano Ceriana, PE, LEED AP	Project Engineer - Force Main Design	X		X	X	X	X			X	
Emily Staubus Williamson, PE	Project Engineer - Force Main Design and Permitting/Regulatory Compliance	X	X	X				X			X
Scott Hoxworth, PE	Project Engineer - Trenchless Design			X	X		X	X		X	X
Julian Gomez, PE	Project Engineer - Trenchless Design								X		
Ed Talton, PE	Hydraulic Analysis						X	X			
Parsa Pezeshk, PhD, PE	Hydraulic Analysis										
Joseph Graham, JD, PE	Permitting/Regulatory Compliance										
Kerry Wulff, CBC	CEI										
Charles Warren	CEI										
Jason Hignite	Environmental										X
Mike Patterson, PSM (ECHO)	Surveying and Mapping/SUE			X							
Wayne Driggers, PE (Driggers)	Geotechnical Engineering										
Michelle Robinson, APR (Dialogue)	Public Involvement										
Robin Bizjack, APR (Dialogue)	Public Involvement										

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Force Main and ARV Replacement – Disston Avenue and Klosterman Road	6	Osceola Parkway Interchange Flyover Design
2	Palm Harbor Transmission Force Main Assessment (Klosterman Road, Pinellas Trail, and Camelot Court Force Mains)	7	Seminola Force Main Replacement and Pump Station Relocation
3	Ernie Caldwell Reclaimed Water Main Improvements - Phase I	8	Design-Build of New Redundant 54-inch Bypass Line, Southside Force Main
4	Storey Park/Innovation Place Utility Project	9	SSNOCWTA C-200 PVC Force Main Replacement
5	World Drive Extension Utility Relocation (Phase I)	10	Vero Beach 18-inch Subaqueous Pipeline Design

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

Snapshot

1. UNDERSTANDING OF SCOPE OF PROJECT

A successful project begins with the complete understanding of the scope of the project.

2. DEVELOPMENT OF A WORK PLAN

CHA will develop a project-specific work plan which defines the project goals and resources required to complete the project within the schedule.

3. INITIAL PROJECT MEETING

The meeting will outline a clear project understanding, set project goals, and define key project milestones.

4. PROJECT EXECUTION

Once the specific project design approach has been completed and approved, work would commence upon the notice to proceed.

5. QUALITY CONTROL

We will adhere to a QA/QC plan to maintain standards for technical performance and accuracy of all engineering reports, design drawings and specifications.



Firm's Methodology for Project Management

CHA's experts provide professional, comprehensive engineering services throughout Florida. Our multi-disciplined team brings the capabilities of a broad spectrum of perspectives and extensive planning backgrounds to each assignment. From studies to construction, we routinely provide these services for similar projects:

- Study and preliminary design phase
- Final design phase
- Bidding phase
- Construction phase
- Engineering studies

CHA will provide the following services on the county's projects:

PROJECT MANAGEMENT

An established and practical project design approach is necessary to establish and meet project requirements, schedule and budget. The on-call project design approach includes:

- Meeting with the county (as necessary) to develop a detailed scope of work
- Developing a project-specific schedule
- Identifying and engaging the technical resources for the specific project
- Developing a project-specific QA/QC plan

Once the specific project design approach has been completed and approved by the county, work will commence with the notice to proceed (NTP). Project cost, schedule, and quality control will be managed by:

- Frequent internal project progress meetings
- Regular communication between the project manager and the county
- Regular project progress reports submitted to the county
- The completion and submission of deliverables at project milestones
- Strict adherence with the project QA/QC plan

EXTENSIVE QUALITY CONTROL

We take project management and quality control very seriously. Our project managers use three comprehensive project manuals (developed internally at CHA) to develop specific project management and QA/QC plans for each assignment: The Project Management Manual, the QA/QC Manual, and the Total Technical Quality Control (TTQC) Manual.

CLIENT COORDINATION

The county's team will be an integral part of CHA's quality assurance program. By participating in project meetings, communicating clearly and often, and providing timely and thorough reviews of deliverables, the county and CHA will achieve success. CHA will maintain open communication with the county throughout the design process. Formal design reviews will be made at critical project milestones, such as the 30%, 60%, 90%, and 100% complete phases.

H. ADDITIONAL INFORMATION

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

Quality Control Plan

CHA uses proactive quality management planning and execution initiated at the earliest possible time in project development and then implemented and monitored throughout design development. Quality does not simply end with the deliverable. CHA will have a vested interest in the project's quality through project construction and closeout.

Before beginning any project work, CHA's project managers prepare a Project-specific Work Plan (PSWP). The PSWP must comply with basic CHA corporate requirements but is then tailored to the specific project requirements at the project manager's discretion. Each PSWP will include identifying project stakeholders, project location and history, scope of services, schedule, budget, Quality Management Plan (QMP), roles and responsibilities of the team, communication style and frequency, file management procedures, and procedures for managing out of scope items.

The project-specific QMP will be customized as a collaborative effort involving the project managers and technical leads. CHA's quality manager will be:

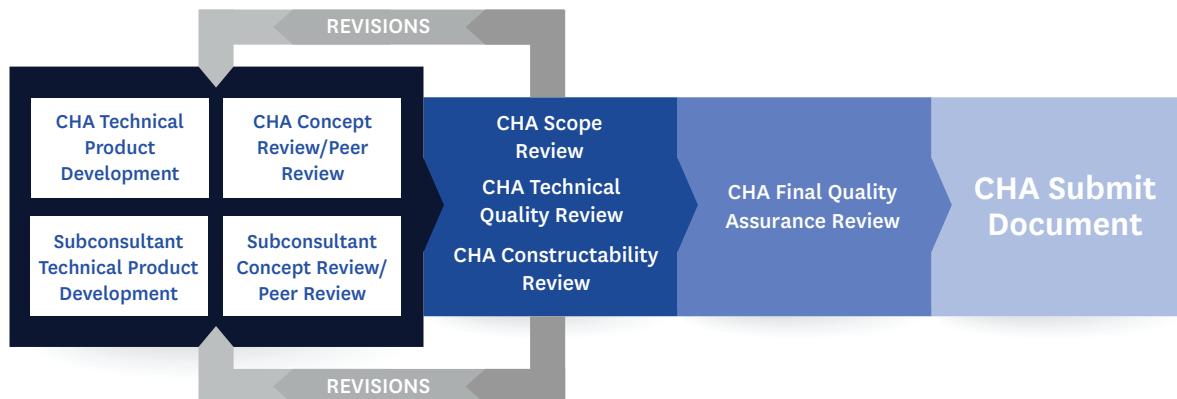
1. Available to assist in the QMP preparation should the need arise
2. Responsible for reviewing and certifying the QMP for consistency and compliance before project work begins

CHA uses a “**Red, Yellow, Green**” (“**RYG**”) quality review process so that work products and deliverables are fully and consistently reviewed, resolved and recorded. Our

professionals who create the design or prepare the work products to bear the primary responsibility for completeness, content, form, and technical accuracy.

We require a formal check and review of all work products and deliverables. The “**RYG**” quality review process follows a consistent workflow sequence whereby each design element/work product is highlighted in **YELLOW** to signify that review has occurred. Any direct corrections are annotated in **RED**, and commentary and/or instructions are annotated in **BLUE** or **BLACK**. The checker signs and dates the review set and returns the documents to the design element/work product originator.

The originator evaluates the checkers' comments and works with the checker to resolve each comment. **GREEN** annotations signify agreement with, or the resolution of, the review comments. Corrections are made to the designs or drawings and are then verified by the checker, who places a QA/QC stamp on each drawing or design. Finally, the originator, checker, corrector, and verifier sign and date each drawing or design to verify that the process has been followed for complete quality compliance. The team does not advance or submit any work products or deliverables until they have satisfied the QMP.



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

CHA's Environmental Sustainability Initiatives

With a corporate design philosophy of balancing the natural and built environment, we continue to add services and pursue projects that offer us the opportunity to use sustainable design principles. CHA is a member of the U.S. Green Building Council (USGBC) and has incorporated an aggressive program into our corporate philosophy to promote sustainable development practices within our planning and design practice. Our team offers a fully integrated approach to sustainable planning and design that starts with the first gleam in someone's eye for a project through to the ribbon cutting and operation. The CHA team offers more than 30 LEED-accredited professionals (LEED APs) and Envision Sustainability Professionals (ENV SPs) who are experienced in designing and documenting projects for LEED certification under the USGBC's LEED rating system and for Envision Certification under the Institute for Sustainable Infrastructure (ISI) rating system. CHA's previous and current experience with the LEED and Envision rating systems is diverse.

CHA's sustainability initiative stands on four strategic pillars:

Sustainable Services & Clients

We provide sustainable practices in the services we offer to help our clients plan, design, and build projects that endure.

Sustainable Workforce

We inspire our employees by creating an environment that connects us to our company and communities and challenges our employees to grow personally and professionally.

Sustainable Communities

We meaningfully engage with stakeholders and support the communities in which we work and live.

Sustainable Operations

We measure our environmental footprint and implement programs to reduce resource use, waste, and carbon emissions.



Corporate Commitment to Environmental Stewardship

At CHA, our responsibility **to improve the world we live in** goes far beyond delivering a quality engineering design on schedule and under budget. Our responsibility extends to the communities where each of our employees lives and works.

IT IS OUR OBLIGATION TO RESPONSIBLY IMPROVE THE WORLD THROUGH OUR DESIGNS AND THROUGH OUR ACTIONS, SO THAT OUR ENVIRONMENT IS PRESERVED FOR FUTURE GENERATIONS.

H. ADDITIONAL INFORMATION

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

CHA acquired Reiss
Engineering, Inc. in 2021.

SOUTH SEMINOLE & NORTH ORANGE COUNTY WASTEWATER TRANSMISSION AUTHORITY

410 Lake Howell Road
P.O. Box 941837
Maitland, FL 32794-1837
Telephone 407/628-3419
Fax 407/628-0153
www.ssnocwta.com

RE: Letter of Recommendation

To Whom It May Concern:

It gives me great pleasure to write this "Letter of Recommendation" for Reiss Engineering Inc. (REI). Since 2009, REI has been a trusted partner for the South Seminole & North Orange County Wastewater Transmission Authority (SSNOCWTA). REI has continually met schedule and budget commitments while delivering quality results. Some of the various wastewater engineering services REI has provided include:

- Large scale pipeline projects.
- ARV management program.
- Design, engineering and construction inspection services for force main repairs and replacements. Pump station repairs, maintenance and rehabilitations;
- Engineering services as requested regarding general system conditions, operation and maintenance including semi-annual pump station functional tests;
- Hydraulic modeling;
- Engineering services as required for pump station upgrades and improvements;
- Master Plan updates and the design and implementation of a CIP program;
- Preparation of grants and permits to construct and maintain sections of the transmission system;
- Engineering services as required during emergencies including loss of power, pump station overflows, outside contractor impacts and infrastructure issues.

REI is a quality service provider that has a team \ common sense approach to resolving issues. We have enjoyed working with their personnel and consider them an extension of our staff. We are impressed with their enthusiasm and expertise. We look forward to continually work with REI on future projects.

Sincerely,



Ed Gil de Rubio
Executive Director

H. ADDITIONAL INFORMATION

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

CHA acquired Reiss
Engineering, Inc. in 2021.



Reiss Engineering, Inc.
1016 Spring Villas Pt.
Orlando, Florida 32708

Re: Letter of Recommendation

Dear Ms. Peckham:

On behalf of Volusia County, I am pleased to write this letter of recommendation for Reiss Engineering, Inc. (Reiss) regarding the quality engineering design and construction management services and support provided on the Normandy Boulevard Reclaimed Water Main Extension Project.

The Reiss staff provided responsive and quality technical services on the project, as well as personal service to meet the underlying goals and needs of the County. Reiss effectively coordinated the project with other entities including the City of Deltona. Reiss was always responsive and took great pride in their work while maintaining budget and schedule which was critical for this St. Johns River Water Management District cost-share funded project. Overall, Reiss was a pleasure to work with and provided a true “team” effort with our staff. We look forward to working with Reiss on future projects.

Sincerely,

A handwritten signature in blue ink that reads "Scott Mays".

Scott Mays, P.E.
Utility Engineer

C: Michael Ulrich, Director, Water Resources and Utilities

H. ADDITIONAL INFORMATION

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

CHA acquired Reiss
Engineering, Inc. in 2021.

Tamara Richardson, P.E.
Director

1011 Jim Keene Blvd., SR 540
Winter Haven, Florida 33880



Board of County Commissioners

PHONE: 863-298-4100
FAX: 863-298-4292
www.polk-county.net

RE: Reiss Engineering, Inc. Reference

To Whom it May Concern:

Polk County Utilities began our relationship with Reiss Engineering, Inc. (Reiss) in February 2008 with a successful regional water supply plan that led to the initiation of the Polk Regional Water Cooperative. This introductory task was well executed and the County encouraged Reiss to submit for a continuing services contract which was subsequently awarded in 2010. Since then Reiss has provided professional engineering services in connection with the design, permitting, planning, and construction phase services for water, wastewater, and reclaim water facilities located within Polk County.

In addition to task orders assigned under these contracts, Reiss has completed large capital improvement projects for the County, including the following:

Northwest Regional Utility Service Area Wastewater Treatment Facility Improvements and Expansion which included preliminary engineering, permitting, final design, bidding, and construction administration services for the improvements to the hydraulic issues within the existing facility;

NWRUSA WWTF Aquifer Storage and Recovery Facility which included one of the deepest ASR wells in the United States. Reiss helped to obtain the well construction permit from SWFWMD, prepared the FDEP Class V Injection Well Construction Permit Application and completed the final design, bidding, and construction services; and

Lift Station No. 106 Rehabilitation which included design and construction services to improve the wastewater collection system and to meet future system demand.

Other capital projects Reiss is currently performing or close to completing include:

- Central Regional Utility Service Area (CRUSA) Water Production Facility (New 4.0 MGD Advanced Water Treatment Plant)
- Ernie Caldwell Reclaimed Water Main Improvements
- Northwest Regional WWTF Headworks Improvements

Reiss has executed these projects to the satisfaction of Polk County Utilities. The Reiss project management and design team maintained excellent communication throughout the project life cycle so that crucial decisions and County preferences were incorporated to our expectations. Projects were delivered successfully on time and on budget.

Reiss' staff has a well proven success record with the County and continues to deliver quality service on projects as well professional interaction with Reiss' staff - from junior engineers to project and client managers, field engineers, and operational staff.

I am pleased to offer my recommendation for Reiss Engineering, Inc. Their staff have been highly professional, skilled and responsive to PCU on a range of assignments over a period of more than ten years.

Sincerely,
Polk County Utilities

Tamara Richardson, PE
Director

COMMISSIONERS: George Lindsey III, Chairman • Rick Wilson • Bill Braswell • Martha Santiago • John Hall, Vice Chairman

H. ADDITIONAL INFORMATION

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

CHA acquired Reiss
Engineering, Inc. in 2021.



CITY OF
FORT LAUDERDALE

Dean J. Trantalis
Mayor



100 North Andrews Avenue
Fort Lauderdale, FL 33301
(954) 828-5004
(954) 828-5667 Fax
dtrantalis@fortlauderdale.gov
www.fortlauderdale.gov

To whom it may concern:

I highly recommend Robert Reiss and Reiss Engineering as extremely capable and knowledgeable consultants in the public works field.

Reiss Engineering conducted an in-depth review in 2017 of the condition of Fort Lauderdale's utility infrastructure and what work the city needed to undertake in the coming years. This strategic planning initiative helped the city prioritize rehabilitation and replacement projects and included recommendations regarding energy efficiency and sustainability.

The report was eye-opening to myself — then a city commissioner — and many in the community about the problematic state of our utility system and the funding gaps that existed to ensure the city had a reliable infrastructure for our future. Unfortunately for the city, the report was prescient and some of the weaknesses that it identified reached crisis points before we could take adequate measures to address them.

I must compliment Mr. Reiss and his company for their thoroughness, depth of knowledge, clarity and willingness to bring to the city critical information. Their work helped form the cornerstone of the current fast-track initiatives underway to improve the utility infrastructure. Throughout my experience with the firm, Mr. Reiss and his staff have conducted themselves with the utmost professionalism and were readily accessible to myself and other city leaders for follow-up discussions and questions.

Sincerely,

Dean J. Trantalis
Mayor

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

3/20/2025

33. NAME AND TITLE

Allen Dethloff, PE, Florida Team Leader

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)
25-0210-RFQ-CCNA

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME CHA Consulting, Inc.			3. YEAR ESTABLISHED 2011	4. UNIQUE ENTITY IDENTIFIER 96-732-2483
2b. STREET 2502 N Rocky Point Drive, Suite 145			5. OWNERSHIP	
2c. CITY Tampa		2d. STATE FL	2e. ZIP CODE 33607	a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Allen Dethloff, PE, Florida Team Leader			b. SMALL BUSINESS STATUS No	7. NAME OF FIRM (<i>If block 2a is a branch office</i>)
6b. TELEPHONE NUMBER (813) 549-0919	6c. E-MAIL ADDRESS ADethloff@chasolutions.com			
8a. FORMER FIRM NAME(S) (<i>If any</i>)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Clarkeson Engineering Co., Inc., 1952		John Clarkeson, Consulting Eng., 1955		
Clarkeson, Clough, Yokel, 1966		Clarkeson & Clough Associates, 1967		
Clough Associates, 1971		Clough, Harbour & Associates, 1981		
Clough Harbour & Associates LLP, 1990		CHA, Inc., 2008		

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			
NA	Airport Engineers	22	1	A05	Airports; Navaids; Airport Lighting; Aircraft Fueling	6
06	Architects	34		A06	Airports; Terminals; & Hangars; Freight Handling	6
12	Civil Engineers	125	8	C15	Construction Management	5
15	Construction Inspector	100	2	D02	Dams (Earth; Rock); Dikes; Levees	2
21	Electrical Engineers	148	5	E02	Educational Facilities; Classrooms	6
23	Environmental Engineer	24	4	E07	Energy Conservation; New Energy Sources	4
24	Environmental Scientist	41		E09	Environmental Impact Studies, Assessments or Statements	5
25	Fire Protection Engineer	26	3	F03	Fire Protection	9
27	Foundation/Geotechnical Engineer	6		H04	Heating, Ventilating, Air Conditioning	4
30	Geologist	5		H07	Highways; Streets; Airfield Paving; Parking Lots	8
35	Industrial Engineers	1		I06	Irrigation; Drainage	4
38	Land Surveyor	17		L03	Landscape Architecture	4
39	Landscape Architects	16		L06	Lighting (Exteriors; Street; Memorials; Athletic Fields)	3
42	Mechanical Engineers	127		P06	Planning (Site, Installation and Project)	6
52	Sanitary Engineers	11		P12	Power Generation, Transmission, Distribution	6
54	Security Specialists	6		R06	Rehabilitation (Buildings; Structures; Facilities)	6
57	Structural Engineers	78		S04	Sewage Collection, Treatment & Disposal	8
58	Technician/Analyst	170	3	S05	Soils & Geologic Studies; Foundations	3
60	Transportation Engineers	153	2	S07	Solid Wastes; Incineration; Landfill	4
62	Water Resource Engineer	63	3	S09	Structural Design; Special Structures	5
	Other Employees	751	8	S10	Surveying; Platting; Mapping; Flood Plain Studies	5
	Total	1,924	39	W03	Water Supply; Treatment and Distribution	8

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

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

12. AUTHORIZED REPRESENTATIVE

12. AUTHORIZED REPRESENTATIVE

a. SIGNATURE

SIGNATURE
Mr. W. Dentif

b. DATE

3/20/2025

c. NAME AND TITLE

Allen Dethloff, PE, Florida Team Leader

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

25-0210-RFQ-CCNA

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME Diggers Engineering Services, Inc.			3. YEAR ESTABLISHED 1982	4. UNIQUE ENTITY IDENTIFIER 10-799-6977
2b. STREET 12220 49th Street North			5. OWNERSHIP	
2c. CITY Clearwater		2d. STATE FL	2e. ZIP CODE 33762	a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Wayne S. Diggers, President			b. SMALL BUSINESS STATUS Not applicable	
6b. TELEPHONE NUMBER (727) 571-1313		7. NAME OF FIRM (If Block 2a is a Branch Office)		
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

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

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM

(Insert revenue index number shown at right)

a. Federal Work		3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
b. Non-Federal Work	6	4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
c. Total Work	6	5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 3/14/25
c. NAME AND TITLE Wayne S. Driggers, President	

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
25-0210-RFQ-CCNA

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME Dialogue Public Relations LLC			3. YEAR ESTABLISHED 2006	4. UNIQUE ENTITY IDENTIFIER XTDLWYS8JUU3
2b. STREET 1850 Castle Woods Dr.			5. OWNERSHIP	
2c. CITY Clearwater		2d. STATE FL	2e. ZIP CODE 33759	a. TYPE LLC
6a. POINT OF CONTACT NAME AND TITLE Michelle Klase Robinson, APR, President			b. SMALL BUSINESS STATUS SBE -Pinellas County; WBE – State of Florida	
6b. TELEPHONE NUMBER 727-580-9013		6c. E-MAIL ADDRESS mrobinson@dialogue-pr.com		7. NAME OF FIRM (If Block 2a is a Branch Office) N/A
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED N/A	8c. UNIQUE ENTITY IDENTIFIER N/A

9. EMPLOYEES BY DISCIPLINE			10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees (1) FIRM (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
	Public Relations	2	S04	Public information & involvement – wastewater facility improvements	1
			S13	Public information & involvement – stormwater conveyance	3
			W02	Public outreach – five-year water resource plan update	2
			W02	Public outreach – groundwater and surface water supplies	3
			W03	Public information & outreach – drinking water transmission mains	3
			W03	Public information – booster station	1
	Other Employees				
	Total	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	0	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	2	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	2	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 <i>Michelle Klase Robinson</i>	b. DATE March 5, 2025
a. NAME AND TITLE Michelle Klase Robinson, APR, President	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

25-0210-RFQ-CCNA

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME ECHO UES, Inc.	3. YEAR ESTABLISHED 2017	4. UNIQUE ENTITY IDENTIFIER MQE9GV4YL924
2b. STREET 4803 George Rd., Suite 350	5. OWNERSHIP	
2c. CITY Tampa	2d. STATE FL	2e. ZIP CODE 33634
6a. POINT OF CONTACT NAME AND TITLE Jerald Comellas, Jr., PE / President	a. TYPE S Corp / Privately Owned	
6b. TELEPHONE NUMBER 727-423-2518	6c. EMAIL ADDRESS jerry.comellas@echoues.com	b. SMALL BUSINESS STATUS
8a. FORMER FIRM NAME(S) (If any)		8b. YEAR ESTABLISHED
		8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

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

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	7	4	L02	Land Surveying	8
12	Civil Engineers	3	1	T02	Utilities	8
38	Land Surveyors	10	5			
48	Construction Experts/Mgrs/Eng.	1	1			
08	CADD Technicians	16	9			
Other	Field Mgrs & Field Technicians	75	34			
Other	Utility Coordinator	5	2			
Other	Marketing Coordinator	2	2			
	Other Employees					
Total		119	58			

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	7	1. Less Than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	7	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	8	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

03/19/2025

c. NAME AND TITLE

Jerald Comellas, Jr., PE | President

TAB 2. STATEMENTS AND DOCUMENTATION

TAB 2. STATEMENTS AND DOCUMENTATION

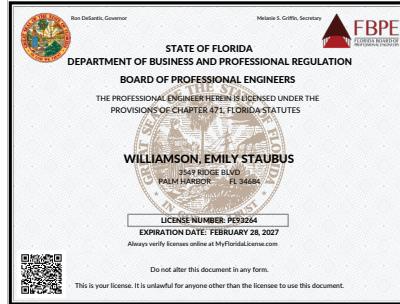
1. PROOF OF LICENSES/CERTIFICATIONS

CHA Consulting, Inc. (Prime)

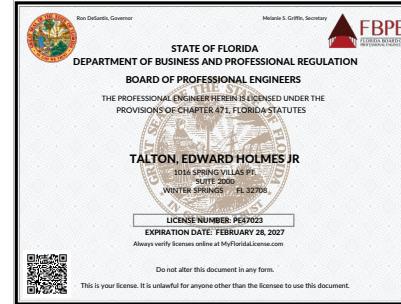
Weston Haggen, PE, DBIA, ENV SP, PMP



Emily Staubus Williamson, PE



Ed Talton, PE



Arnelio Alfonso, PE



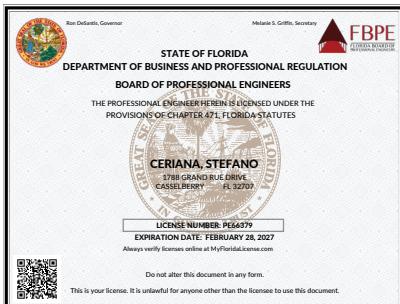
Scott Hoxworth, PE



Parsa Pezeshk, PhD, PE



Stefano Ceriana, PE, LEED AP



Julian Gomez, PE



Joseph Graham, JD, PE



1. PROOF OF LICENSES/CERTIFICATIONS (CONTINUED)

ECHO UES, Inc. (Subconsultant)

Mike Patterson, PSM

	Florida Department of Agriculture and Consumer Services Division of Consumer Services Board of Professional Surveyors and Mappers 2005 Apalachee Pkwy Tallahassee, Florida 32399-6500	License No.: LS6560 Expiration Date February 28, 2027
Professional Surveyor and Mapper License Under the provisions of Chapter 472, Florida Statutes		
MICHAEL WILLIAM PATTERSON 10655 YUNKER DR LARGO, FL 33774-4529		
WILTON SIMPSON COMMISSIONER OF AGRICULTURE		
This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.		

Driggers Engineering Services, Inc. (Subconsultant)

Wayne Driggers, PE

Ron DeSantis, Governor 	Melanie S. Griffin, Secretary 
STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION BOARD OF PROFESSIONAL ENGINEERS	
THE PROFESSIONAL ENGINEER HEREBY IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES	
DRIGGERS, WAYNE STUART 1220 39TH ST N. CLEARWATER, FL 33760	
LICENSING NUMBER: PE50015 EXPIRATION DATE: FEBRUARY 28, 2027	
Always verify licensure online at MyFloridaLicense.com .	
	
Do not alter this document in any form. This is your license. It is unlawful for anyone other than the licensee to use this document.	

2. STATE OF FLORIDA LICENSURE

CHA Consulting, Inc. (Prime)


dbpr Department of Business & Professional Regulation

HOME
CONTACT US
MY ACCOUNT

3:44:50 PM 8/22/2024

ONLINE SERVICES

- [Apply for a License](#)
- [Verify a Licensee](#)
- [View Food & Lodging Inspections](#)
- [File a Complaint](#)
- [Continuing Education Course Search](#)
- [View Application Status](#)
- [Find Exam Information](#)
- [Unlicensed Activity Search](#)
- [AB&T Delinquent Invoice & Activity List Search](#)

LICENSEE DETAILS

Licensee Information

Name:	CHA CONSULTING, INC. (Primary Name)
Main Address:	575 BROADWAY
	ALBANY New York 12207
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	28386
Status:	Current
Licensure Date:	01/29/2009
Expires:	

Note: FDBPR stopped issuing certificates in 2020. CHA's engineering license number is 28386.

CHA Consulting, Inc. is active and in good standing with the Florida Department of State under document number F08000004937 (see below).

**State of Florida
Department of State**

I certify from the records of this office that CHA CONSULTING, INC. is a New York corporation authorized to transact business in the State of Florida, qualified on November 17, 2008.

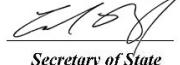
The document number of this corporation is F08000004937.

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 6, 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 Sixth day of January, 2025*





Secretary of State

Tracking Number: 1095476068CC

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

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

2. STATE OF FLORIDA LICENSURE (CONTINUED)

ECHO UES, Inc. (Subconsultant)

LICENSEE DETAILS		11:28:10 AM 3/18/2022
Licensee Information		
Name:	ECHO UES, INC. (Primary Name)	
Main Address:	4803 GEORGE ROAD SUITE 350 TAMPA Florida 33634	
County:	HILLSBOROUGH	
License Information		
License Type:	Registry	
Rank:	Registry	
License Number:	32066	
Status:	Current	
Licensure Date:	04/19/2017	
Expires:		

Note: FDBPR stopped issuing certificates in 2020. ECHO's license number is 32066.

 <p>Florida Department of Agriculture and Consumer Services Division of Consumer Services Board of Professional Surveyors and Mappers 2005 Apalachee Pkwy Tallahassee, Florida 32399-6500</p>	<p>License No.: LB8184 Expiration Date: February 28, 2027</p>
	<p>Professional Surveyor and Mapper Business License Under the provisions of Chapter 472, Florida Statutes</p> <p>ECHO UES, INC. 4803 GEORGE RD STE 350 TAMPA, FL 33634-4209</p> <p></p> <p>WILTON SIMPSON COMMISSIONER OF AGRICULTURE</p> <p>This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.</p>

Driggers Engineering Services, Inc. (Subconsultant)

LICENSEE DETAILS		11:49:52 AM 3/13/2025
Licensee Information		
Name:	DRIGGERS ENGINEERING SERVICES, INC. (Primary Name)	
Main Address:	POST OFFICE BOX 17839 CLEARWATER Florida 33762	
County:	PINELLAS	
License Information		
License Type:	Engineering Business Registry	
Rank:	Registry	
License Number:	3696	
Status:	Current	
Licensure Date:	06/21/1983	
Expires:		

Note: FDBPR stopped issuing certificates in 2020. Driggers' license number is 3696.

3. PROOF OF CORPORATE REGISTRATION

CHA Consulting, Inc. is active and in good standing with the Florida Department of State under document number Fo8000004937. Our SunBiz listing is provided below:

DIVISION OF CORPORATIONS


**DIVISION OF
CORPORATIONS**
an official State of Florida website

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

Detail by Entity Name

Foreign Profit Corporation
CHA CONSULTING, INC.

Cross Reference Name
CHA CONSULTING, INC.

Filing Information

Document Number	F08000004937
FEI/EIN Number	16-0966259
Date Filed	11/17/2008
State	NY
Status	ACTIVE
Last Event	DROPPING DBA
Event Date Filed	04/06/2021
Event Effective Date	NONE

Principal Address
III WINNERS CIRCLE
ALBANY, NY 12205

Changed: 09/07/2023

Mailing Address
III WINNERS CIRCLE
ALBANY, NY 12205

Changed: 09/07/2023

Registered Agent Name & Address
CORPORATION SERVICE COMPANY
1201 HAYS STREET
TALLAHASSEE, FL 32301-2525

Officer/Director Detail

Name & Address

Title CEO

CORSO, GREGORY D
III WINNERS CIRCLE
ALBANY, NY 12205

Title CFO

Nelson, Doug
3 WINNERS CIRCLE
ALBANY, NY 12205

Title Secretary, General Counsel

PLATT, MICHAEL A
3 WINNERS CIRCLE
ALBANY, NY 12205

Title AS

TITSWORTH, THOMAS DESQ
3 WINNERS CIRCLE
ALBANY, NY 12205

Title President

Stephenson, James
1 Faneuil Hall Marketplace
South Market Building, suite 4195
Boston, MA 02109

Annual Reports

Report Year	Filed Date
2023	01/30/2023
2024	01/09/2024
2025	01/06/2025

Document Images

01/06/2025 -- ANNUAL REPORT 01/09/2024 -- ANNUAL REPORT 09/07/2023 -- AMENDED ANNUAL REPORT 01/30/2023 -- ANNUAL REPORT 01/10/2022 -- ANNUAL REPORT 04/06/2021 -- Dropping Alternate Name 01/18/2021 -- ANNUAL REPORT 01/22/2020 -- ANNUAL REPORT 03/27/2019 -- ANNUAL REPORT 03/15/2018 -- ANNUAL REPORT 02/28/2017 -- ANNUAL REPORT 09/22/2016 -- AMENDED ANNUAL REPORT 02/09/2016 -- ANNUAL REPORT 02/23/2015 -- ANNUAL REPORT 03/25/2014 -- ANNUAL REPORT 01/31/2013 -- ANNUAL REPORT	View image in PDF format View image in PDF format
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4. CERTIFICATE OF FLORIDA SMALL AND MINORITY BUSINESS

CHA is not a certified minority business enterprise (MBE), woman-owned business enterprise (WBE), small business enterprise (SBE), or other recognized disadvantaged business enterprise (DBE); However, we work with local DBE firms whenever possible and have a strong history of meeting contractual requirements and goals, with respect to the level of utilization of such firms.

We make an affirmative declaration to make a good faith effort to incorporate such firms into this contract. Our team includes the following DBE subconsultants selected for their DBE status and their particular expertise in disciplines necessary to complete this project successfully.

- Dialogue Public Relations, LLC (WBE/SBE)
- Driggers Engineering Services, Inc. (SBE)

CHA is an Equal Employment Opportunity (EEO) employer, and will work to meet minority business participation goals.



State of Florida Woman Business Certification

Dialogue Public Relations LLC

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
10/23/2023 to 10/23/2025

A handwritten signature in black ink, appearing to read "J. Todd Inman".

J. Todd Inman
Florida Department of Management Services



Office of Supplier Diversity
4050 Esplanade Way, Suite 380
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/osd

5. ATTACHMENT A: SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

RFP # 25-0210-RFQ-CCNA

RFP Title Highland Lakes Force Main Replacement

SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

IMPORTANT:

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

PINELLAS COUNTY CERTIFIED SBE	
Yes	No
PRIME FIRM	
CHA Consulting, Inc.	
PINELLAS COUNTY CERTIFIED SBE	
SUB-CONSULTANT(S):	
Driggers Engineering Services, Inc.	
X	
Dialogue Public Relations, LLC	
X	
ECHO UES, Inc.	
X	

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

Name and Title of Authorized Representative: Thomas D. Titsworth, Assistant Secretary

Signature: 

FOR PINELLAS COUNTY USE ONLY				
MAXIMUM AVAILABLE POINTS	AWARDED POINTS			
100	<input type="checkbox"/> 100 Points (Prime Firm is Pinellas County SBE)	<input type="checkbox"/> 75 Points (More than 1 sub consultant is Pinellas County SBE)	<input type="checkbox"/> 50 Points (Only 1 sub consultant is Pinellas County SBE)	<input type="checkbox"/> 0 Does not meet criteria requirements

6. SBE CERTIFICATION ISSUED BY PINELLAS COUNTY

Dialogue Public Relations, LLC

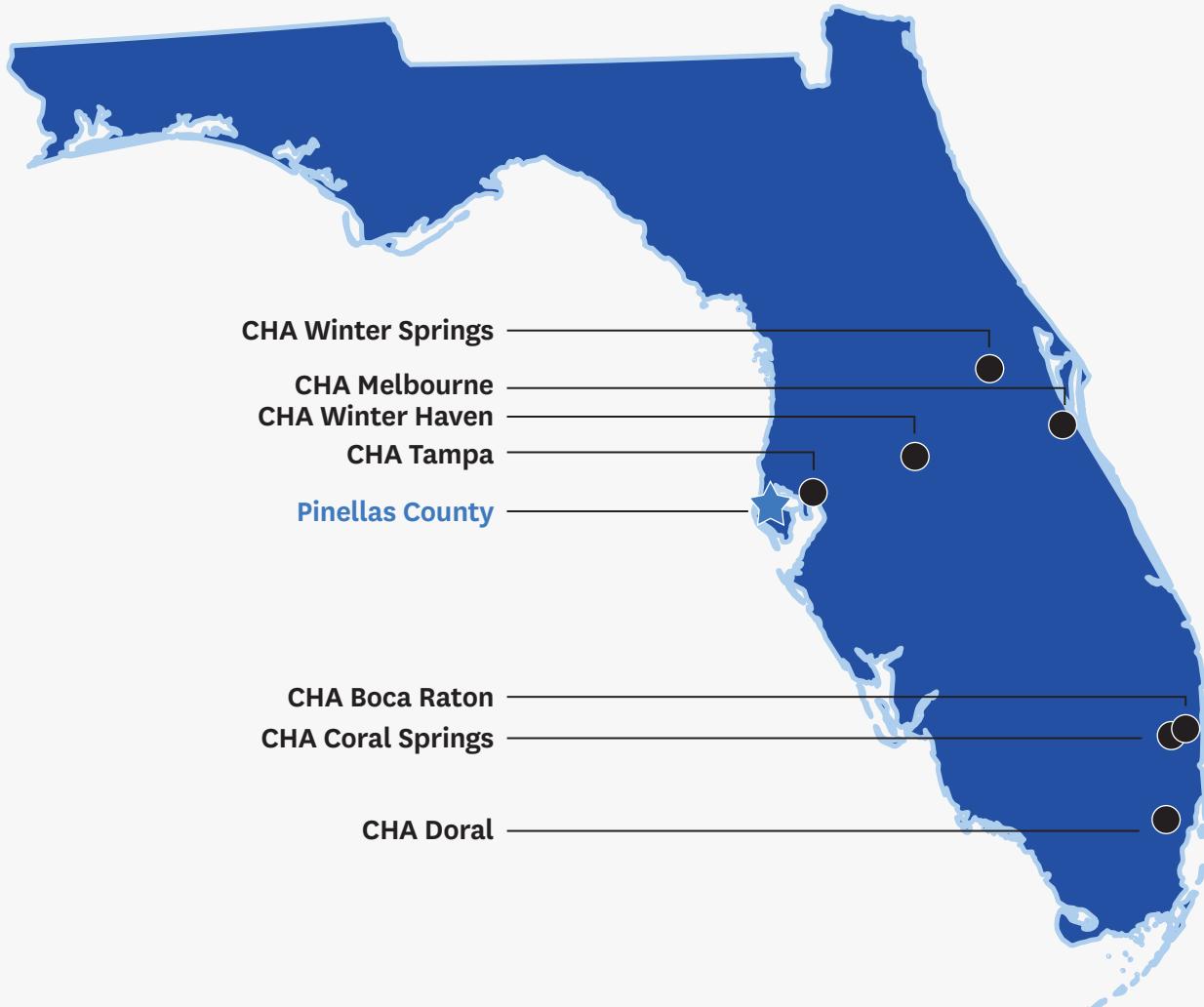


Driggers Engineering Services, Inc.



7. ESTABLISHED OFFICE LOCATION

CHA'S FLORIDA OFFICE LOCATIONS



CHA has seven offices in Florida, with a bench strength of over 2,000 professionals in more than 40 office locations company-wide. As set forth in Pinellas County's purchasing manual for CCNA projects, Article 10.4, E, firms with an established office located in Pinellas, Manatee, Hillsborough, or Pasco counties are considered local. For this project, **Pinellas County will have the direct commitment of our local Tampa office, located at 3507 East Frontage Road, Suite 180, Tampa, FL 33607**. Our proposed project manager, Weston Haggen, is located in our Tampa office. With CHA's Tampa office located less than 30 minutes from county offices, our team can respond quickly to any and all of the county's needs.

TAB 3. CERTIFICATE OF INSURANCE

TAB 3. CERTIFICATE OF INSURANCE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/30/2024

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

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

PRODUCER Ames & Gough 859 Willard Street Suite 320 Quincy MA 02169	CHAHOLDING CHA Consulting, Inc. 3 Winners Circle Albany, NY 12205	CONTACT NAME PHONE (A/C, No. Ext): 617-328-6555	FAX (A/C, No): 617-328-6555	
		E-MAIL ADDRESS: boston@amesgough.com		
		INSURER(S) AFFORDING COVERAGE	NAIC #	
INSURER A : Phoenix Insurance Company A++, XV		25623		
INSURER B : Travelers Indemnity Company, A++, XV		25658		
INSURER C : Berkshire Hathaway Specialty Insurance Company		22276		
INSURER D : Travelers Indemnity Co. of America A++, XV		25666		
INSURER E :				
INSURER F :				

COVERAGE	CERTIFICATE NUMBER: 1907277103	REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.		
INSR LTR	TYPE OF INSURANCE	ADDL/SUBR INSD. WVD
A	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	630-7E170386
	GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY <input checked="" type="checkbox"/> PRO- JECT <input checked="" type="checkbox"/> LOC OTHER:	
D	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS X HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	810-4S407410
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input checked="" type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	CUP-4S539836
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/EMPLOYEE EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	UB-4S429322
C	Professional Liability & Pollution	47-EPP-308429-06
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) All coverages are in accordance with the policy terms and conditions. If Al box is checked, GL Endorsement Form #CGD604, Auto AI #CAT499 to the extent provided therein applies and all coverages are in accordance with the policy terms and conditions. Evidence of Coverage. The A&E Professional Liability policy listed above includes Pollution Liability coverage.		

CERTIFICATE HOLDER	CANCELLATION
CHA Consulting, Inc. - Tampa, FL 2502 N Rocky Point Drive Suite 145 Tampa FL 33607 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Jared Maxwell</i>

© 1988-2014 ACORD CORPORATION. All rights reserved.

ACORD 25 (2014/01)

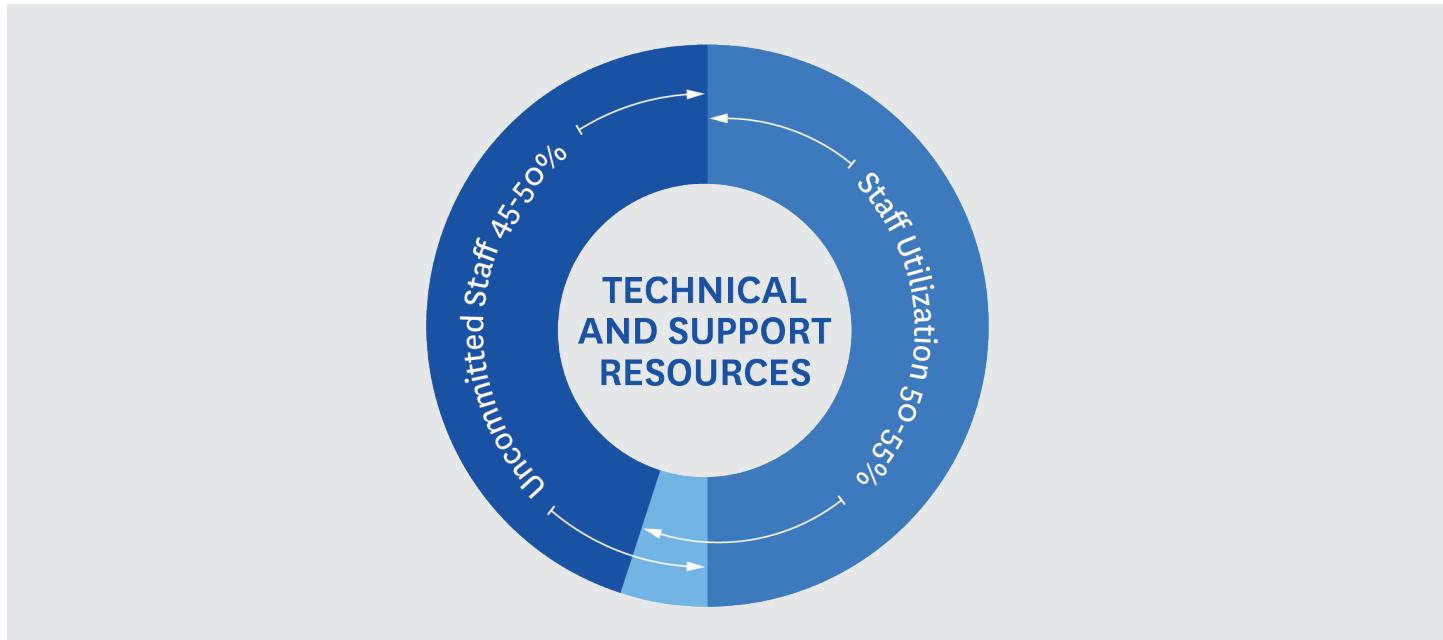
The ACORD name and logo are registered marks of ACORD



TAB 4. KEY PERSONNEL STATEMENT

TAB 4. KEY PERSONNEL STATEMENT

Our proposed key personnel are available to undertake this assignment successfully. Current and projected workloads are analyzed weekly at CHA to allocate resources appropriately. As projects are initiated, the appropriate technical and support resources necessary to perform each task are allocated to meet or exceed all project requirements. The current utilization of the staff is generally in the range of 50-55%, leaving an uncommitted staff effort of between 45% and 50% based on today's workload.



Having provided engineering services to municipal governments for over 73 years, CHA recognizes the pressures municipal officials confront, including budgets and project schedules. We will work collaboratively with the county as a true partner to have sufficient staff, equipment, and systems available to meet or exceed your expectations with our deliverables. **With the bench strength of over 2,000 professionals, we do not foresee any issues meeting deadlines.**

In-House Key Technical Resources



COMMITMENT TO PINELLAS COUNTY

CHA and each of our subconsultants' staff have substantial availability and will be allocated to the county, as necessary, to complete this project in a timely and efficient manner. We have assembled a focused team of local CHA professionals with direct, relevant experience. The assigned staff's efforts will be sufficiently allocated to accomplish the project on schedule and within budget. CHA provides similar services to other governmental agencies within the state of Florida. Our track record demonstrates that we successfully provide high-quality services and products to these municipalities, as we intend to provide to the county.

TEAM MEMBER	ROLE	AVAILABILITY FOR THIS PROJECT
CHA CONSULTING, INC. (PRIME)		
Weston Haggen, PE, DBIA, ENV SP, PMP	Project Manager	50%
J. Richard Voorhees, PE, BCEE	Quality Manager	35%
Arnelio Alfonso, PE	Technical Advisor	45%
Stefano Ceriana, PE, LEED AP	Project Engineer - Force Main Design	50%
Emily Staubus Williamson, PE	Project Engineer - Force Main Design and Permitting/Regulatory Compliance	50%
Scott Hoxworth, PE	Project Engineer - Trenchless Design	50%
Julian Gomez, PE	Project Engineer - Trenchless Design	55%
Ed Talton, PE	Hydraulic Analysis	45%
Parsa Pezeshk, PhD, PE	Hydraulic Analysis	55%
Joseph Graham, JD, PE	Permitting/Regulatory Compliance	50%
Kerry Wulff, CBC	CEI	45%
Charles Warren	CEI	55%
Jason Hignite	Environmental	55%
SUBCONSULTANTS		
Michelle Robinson, APR (Dialogue)	Public Involvement	35%
Robin Bizjack, APR (Dialogue)	Public Involvement	40%
Wayne Driggers, PE (Driggers)	Geotechnical Engineering	45%
Mike Patterson, PSM (ECHO)	Surveying and Mapping/SUE	60%

BUDGET AND SCHEDULE TECHNIQUES

CHA has provided municipalities similar to Pinellas County with professional engineering services and additional “extension-of-staff” type resources for a variety of public infrastructure projects using this proven approach. Our strategies for maximizing the effectiveness and efficiency of our projects include:

Schedule Control

The project team has established procedures and software to continually compare project details and available resources.



Team members will hold regular meetings to determine the percentage of project tasks completed and the budget amount exhausted for each milestone. If a deviation should occur from the schedule or budget, project needs will be re-assessed and discussed.

We are well known for our consistent, on-time performance and quality assurance record for major clients in both the public and private sectors. Our design service strategy is always based on client focus and process-oriented thinking to identify and address project issues quickly and cost-effectively.

Given the firm-wide workforce of over 1,750 people, we do not foresee any difficulties meeting your needs. We have the resources to make sure we meet your project schedule.

Cost Control

CHA's cost control method begins with developing a detailed scope of work, fee proposal, and project-specific work plan to determine project costs. We accomplish this through proactive, upfront communication during the project's scoping phase.



Once our team and the stakeholders have agreed on the project costs and work plan, CHA's assigned project manager will develop forecasted project expenditures depicted graphically. This forecast serves as a baseline to monitor the schedule and expenditure and keep the project on track. This dashboard system gives the project team access to information that can be used to quickly and accurately monitor and assess project status to control schedule and budget proactively.

The objectives of a disciplined, cost-control program are two-fold:

- To maintain control over costs throughout the design development process
- To prevent surprises when construction bids are opened

Techniques Used to Control Cost:

Regular Communication

We will meet to discuss project priorities and develop a project plan that outlines the schedule, major milestones, and staffing.

Communication is critical to verify the project's progress and remain on the most efficient path to completion.



Value Engineering

We have experience applying value engineering principles, techniques, and models to projects. We will incorporate value engineering milestones into the design schedule.



Life-cycle Cost Estimating

Our team knows how to complete life-cycle cost estimating of major systems and equipment and provide other value engineering functions to select the upgrade components most beneficial to your facilities in terms of cost, quality, and function.

TAB 5. REQUIRED FORMS

TAB 5. REQUIRED FORMS

1. CONFIRMATION OF RECEIPT OF ADDENDA

CHA has acknowledged the receipt of addenda (if applicable) electronically in OpenGov.

2. W-9 REQUEST FOR TAXPAYER IDENTIFICATION NUMBER AND CERTIFICATION

W-9
 Form (Rev. March 2024)
 Department of the Treasury
 Internal Revenue Service

**Request for Taxpayer
 Identification Number and Certification**

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

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

Print or type.
 See Specific Instructions on page 3.

<p>1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)</p> <p>CHA Consulting, Inc.</p> <p>2 Business name/disregarded entity name, if different from above.</p>																												
<p>3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes.</p> <p><input type="checkbox"/> Individual/sole proprietor <input checked="" type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate</p> <p><input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership)</p> <p>Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.</p> <p><input type="checkbox"/> Other (see instructions)</p>																												
<p>3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions</p>																												
<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any)</p> <p>Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)</p> <p>(Applies to accounts maintained outside the United States.)</p>																												
<p>5 Address (number, street, and apt. or suite no.). See instructions.</p> <p>3 Winners Circle</p> <p>6 City, state, and ZIP code</p> <p>Albany, NY 12205-1161</p> <p>7 List account number(s) here (optional)</p>																												
<p>Part I Taxpayer Identification Number (TIN)</p> <p>Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i>, later.</p> <p>Note: If the account is in more than one name, see the instructions for line 1. See also <i>What Name and Number To Give the Requester</i> for guidelines on whose number to enter.</p>																												
<table border="1"> <tr> <td colspan="3">Social security number</td> </tr> <tr> <td><input type="text"/></td> <td>-</td> <td><input type="text"/></td> <td>-</td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td colspan="6">or</td> </tr> <tr> <td colspan="6">Employer identification number</td> </tr> <tr> <td colspan="6">1 6 - 0 9 6 6 2 5 9</td> </tr> </table>		Social security number			<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	or						Employer identification number						1 6 - 0 9 6 6 2 5 9					
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or																												
Employer identification number																												
1 6 - 0 9 6 6 2 5 9																												

Part II Certification

Under penalties of perjury, I certify that:

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

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

Sign Here **Signature of U.S. person** 

Date **2/1/25**

General Instructions

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

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

3. VENDOR REFERENCES

CONTRACTOR REFERENCES

Company Name: CHA Consulting, Inc.

Business Address: 2502 N Rocky Point Drive, Suite 145, Tampa, FL 33607

Length of time the company has been in business: 73+ years

How long in present location: 1 year

Total number of current employees: Full-Time: 1,826 **Part-Time:** 188

Number of employees you plan to use to service this contract: 14

All references will be contacted by a County Designee via email, fax, or phone call to obtain answers to questions, as applicable before an evaluation decision is made. Vendor must have experience in work of the same or similar nature, and must provide references that will satisfy the County. Proposer must furnish a reference list of at least four (4) customers for whom they have performed similar services.

REFERENCE 1:	REFERENCE 2:
Company: Central Florida Tourism Oversight District	Company: City of Clearwater
Address: 1900 Hotel Plaza Blvd, Lake Buena Vista, FL 32830	Address: 100 S Myrtle Avenue, Clearwater, FL 33756
Telephone: (407) 810-6051	Telephone: (727) 444-8253
Contact Name: Jason Herrick, PE	Contact Name: Andrija Selak
Contact Email: jherrick@oversightdistrict.org	Contact Email: andrija.selak@mclearwater.com
Company Email: jherrick@oversightdistrict.org	Company Email: andrija.selak@mclearwater.com
REFERENCE 3:	REFERENCE 4:
Company: Orange County Utilities	Company: City of Casselberry
Address: 9150 Curry Ford Road, Orlando, FL 32825	Address: 95 Triplet Lake Drive, Casselberry, FL 32707
Telephone: (407) 254-9719	Telephone: (407) 262-7725 ext. 1235
Contact Name: Andres Salcedo, PE, Deputy Director	Contact Name: Kelly Hans Brock, PE, PW & Utilities Director
Contact Email: andres.salcedo@ocfl.net	Contact Email: kbrock@casselberry.org
Company Email: andres.salcedo@ocfl.net	Company Email: kbrock@casselberry.org

THIS FORM MUST BE RETURNED WITH YOUR CHECKLIST

4. CONTRACTOR ACCEPTANCE FORM

VENDOR SUBMITTAL ACKNOWLEDGEMENT FORM

It is the policy of Pinellas County, Board of County Commissioners, to accept the lowest responsive and responsible or highest ranked submittal received meeting specifications. No changes requested by a vendor due to an error in pricing will be considered after the advertised solicitation opening date. By signing this Vendor Submittal Acknowledgment Form, vendors are attesting to their awareness and acceptance of this policy and agreeing to all solicitation of terms and conditions, including any insurance requirements.

Vendor Name (as shown on W-9): CHA Consulting, Inc.

Doing Business As (DBA) (if applicable):

Mailing Address (as shown on W-9): 3 Winners Circle

City, State, Zip (as shown on W-9): Albany, NY 12205

Vendor Email (primary company email): WHaggen@chasolutions.com

Remit to address (as shown on vendor invoice): 3 Winners Circle, Albany, NY 12205

Federal Tax ID (FEIN) #: 16-0966259

Vendor Contact Information

Contact Name: Weston Haggen, PE, DBIA, ENV SP, PMP

Phone Number: (813) 549-0919

Email Address: WHaggen@chasolutions.com

Payment Terms: Net 45 (per Florida Statute F.S. 218.73) N/A % N/A Days

Deposit (if required) has been paid in the amount of \$ N/A

Proper Corporate Identity is needed for a firm registered with the Florida Division of Corporations. Please visit dos.myflorida.com/sunbiz/ for this information. It is essential to return a copy of your W-9 with your submittal.

I hereby agree to abide by all terms and conditions of this solicitation, including all insurance requirements, and certify that I am authorized to sign this solicitation for the vendor.

Authorized Signature:



Print Name: Thomas D. Titsworth

Title: Assistant Secretary

THIS FORM MUST BE RETURNED WITH YOUR RESPONSE

5. E-VERIFY AFFIDAVIT

APPENDIX 1 – E-VERIFY AFFIDAVIT

APPENDIX 1 – E-VERIFY AFFIDAVIT

I hereby certify that CHA Consulting, Inc. [insert contractor company name] does not employ, contract with, or subcontract with an unauthorized alien, and is otherwise in full compliance with Section 448.095, Florida Statutes.

All employees hired on or after January 1, 2021 have had their work authorization status verified through the E-Verify system.

A true and correct copy of CHA Consulting, Inc. [insert contractor company name] proof of registration in the E-Verify system is attached to this Affidavit.

Signature: 

Print Name: Thomas D. Titsworth

Date: 3/10/25

Federal Work Authorization User Identification No.: 130989

25-0210-RFQ-CCNA

Name of Pinellas County Contract and Contract No.: Highland Lakes Force Main Replacement

NEW YORK
STATE OF FLORIDA COUNTY OF ALBANY

The foregoing instrument was acknowledged before me by means of 1) physical presence X or 2) online notarization, this March 10, 2025 (date) by Thomas D. Titsworth, Asst. Secretary (name of officer or agent, title of officer or agent) of CHA Consulting, Inc. (name of contractor company acknowledging), a New York corporation (state or place of incorporation) corporation, on behalf of the corporation. He/she is personally known to me or has produced N/A (Personally Known) (type of identification) as identification.

[Notary Seal]

JONATHAN HOWARD BARD	
NOTARY PUBLIC, STATE OF NEW YORK	
Registration No. 02BA6359467	Name typed, printed, or stamped: <u>Jonathan H. Bard</u>
Qualified in Dutchess County	
Commission Expires	May, 30, 2025

Notary Public:

Name typed, printed, or stamped: Jonathan H. Bard

My Commission Expires: 5/30/2025

5. E-VERIFY AFFIDAVIT (CONTINUED)

5/17/2021

E-Verify: Employer Wizard - Company Information



Welcome
Riley Simone

≡ MENU

Company Information

Company Name
CHA Consulting, Inc.

Company ID Number
130989

Doing Business As (DBA) Name
--

DUNS Number
--

Physical Location

Address 1
III Winners Circle

Address 2
--

City
Albany

State
NY

Zip Code
12205

County
ALBANY

Mailing Address

Address 1
--

Address 2
--

City
--

State
--

Zip Code

<https://e-verify.uscis.gov/web/EmployerWizard.aspx>

1/3

5. E-VERIFY AFFIDAVIT (CONTINUED)

5/17/2021

E-Verify: Employer Wizard - Company Information

Additional Information

Employer Identification Number
160966259

Total Number of Employees
500 to 999

Parent Organization

--

Administrator

--

Organization Designation

Employer Category
Federal Contractor without FAR E-Verify Clause

[View / Edit](#)

NAICS Code

541 - PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES

[View / Edit](#)

Total Hiring Sites
20

[View / Edit](#)

Total Points of Contact
1

[View / Edit](#)

[View Original MOU Template](#)

[View MOU](#)



Last Login: 05/17/2021 08:27 PM

U.S. Department of Homeland Security

<https://e-verify.uscis.gov/web/EmployerWizard.aspx>

2/3

6. SBE STATUS FORM

RFP # 25-0210-RFQ-CCNA

RFP Title Highland Lakes Force Main Replacement

SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

SMALL BUSINESS ENTERPRISE (SBE) STATUS FORM

IMPORTANT:

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

PINELLAS COUNTY CERTIFIED SBE	
Yes	No
PRIME FIRM	
CHA Consulting, Inc.	
PINELLAS COUNTY CERTIFIED SBE	
SUB-CONSULTANT(S):	
Driggers Engineering Services, Inc.	
Dialogue Public Relations, LLC	
ECHO UES, Inc.	

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

Name and Title of Authorized Representative: Thomas D. Titsworth, Assistant Secretary

Signature: 

FOR PINELLAS COUNTY USE ONLY

MAXIMUM AVAILABLE POINTS	AWARDED POINTS			
	<input type="checkbox"/> 100 Points (Prime Firm is Pinellas County SBE)	<input type="checkbox"/> 75 Points (More than 1 sub consultant is Pinellas County SBE)	<input type="checkbox"/> 50 Points (Only 1 sub consultant is Pinellas County SBE)	<input type="checkbox"/> 0 Does not meet criteria requirements
100				

PINELLAS COUNTY

CCNA PROFESSIONAL SERVICES CONTINUING CONTRACT

Revised 5/2024

SBE CERTIFICATION ISSUED BY PINELLAS COUNTY

Dialogue Public Relations, LLC

<p>PINELLAS COUNTY SMALL BUSINESS ENTERPRISE PROGRAM</p>	
<p>THIS CERTIFICATE IS AWARDED TO</p>	
<p>Dialogue Public Relations, LLC</p>	
<p>HAS SUCCESSFULLY COMPLETED THE SBE Certification Requirements for: Public Relations Consulting Certification Expires: 2/17/2028</p>	
Approved: 2/17/2025	 SIGNED, Corey McCarter
	

Driggers Engineering Services, Inc.

<p>PINELLAS COUNTY SMALL BUSINESS ENTERPRISE PROGRAM</p>	
<p>THIS CERTIFICATE IS AWARDED TO</p>	
<p>Driggers Engineering Services Inc</p>	
<p>HAS SUCCESSFULLY COMPLETED THE SBE Certification Requirements for: Geotechnical Engineering Certification Expires: 5/15/2027</p>	
Approved: 5/15/2024	 SIGNED, Corey McCarter
	

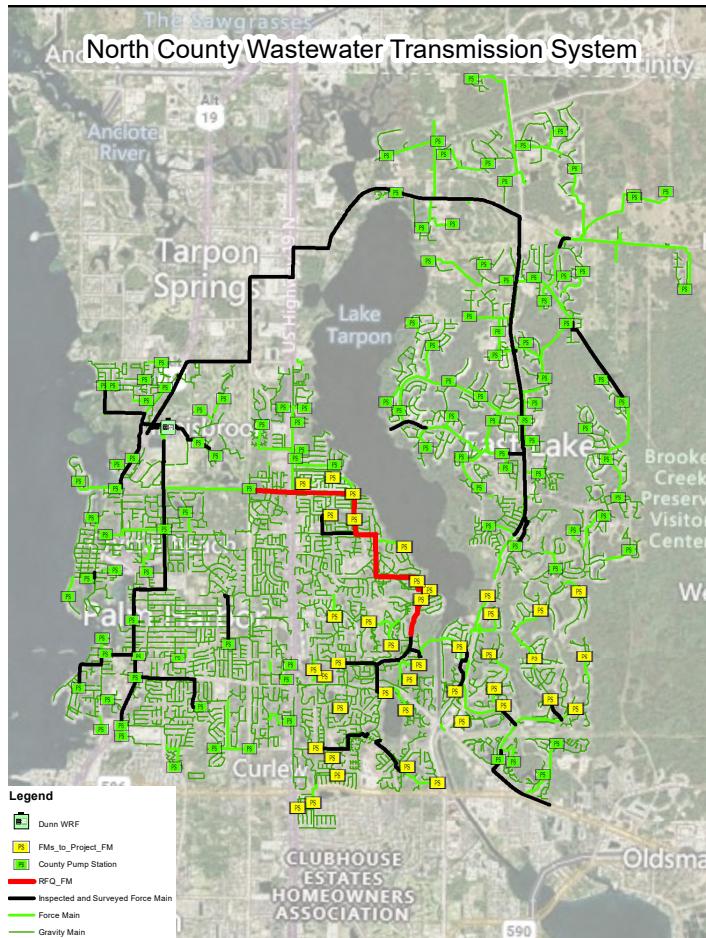
TAB 6. ADDITIONAL INFORMATION

TAB 6. ADDITIONAL INFORMATION

PROJECT UNDERSTANDING AND APPROACH

Pinellas County is committed to providing superior public service and responsible management of public resources to meet the needs of its citizens. As part of this commitment, the county is dedicated to maintaining uninterrupted wastewater service for its customers. To maintain this service, the county has conducted a significant undertaking to evaluate all force mains in the wastewater system using condition assessment technologies, including ultrasonic thickness testing (UTT), to quantify the condition of the force mains and plan future replacements.

CHA (formerly Reiss Engineering, Inc.) has **completed the assessment of over 170,000 feet of force main within the county, ranging in size from 6 to 42 inches in diameter**, as shown in the map below. As part of this total amount, CHA completed a detailed force main evaluation on the 20-inch force main along Camelot Court, which then identified the force main was in poor condition with as little as 39% remaining wall thickness in some spots.



This force main is particularly significant to the county's wastewater system, as it transmits flow from **41 pump stations** in the north county transmission system to the Dunn WRF. In addition to the criticality of this force main to the system, it is specifically located almost entirely in easements adjacent to homes rather than being located within easily accessible rights-of-way (ROWS).

The evaluation of this force main identified multiple locations that exhibited pipe wall deterioration with varying levels of severity, ranging from minor to significant corrosion. This pipe wall deterioration was most apparent at "high points" in the force main, where hydrogen sulfide can accumulate and subsequently form sulfuric acid through chemical processes, resulting in pipe wall corrosion. For other areas of the North County system that exhibited significant deterioration (<60% remaining wall thickness), CHA provided design services for immediate replacement. The other sections of the force main have additional vulnerable sections that will be replaced as part of this project and support the county's commitment to maintaining its wastewater system.

Approximately **21,000 feet of force main** is proposed for replacement as part of this project. CHA has completed multiple projects in the North County area, including force main assessments and hydraulic modeling of the force main associated with hydraulic concerns at an upstream pump station (PS 357). **CHA's familiarity with this force main and its capacity concerns that may be impacted would allow our team to start immediately and with specific interest to limit impacts.** CHA understands that this large-diameter force main replacement is critical to maintaining wastewater service while keeping a low profile since it is located in a specifically high-profile area adjacent to many residential areas, a golf course, schools, and a significant crossing at US-19.

Our project manager, **Weston Hagen**, was the project manager and engineer-of-record for the previously completed force main assessments and replacements on the force main at Klosterman Road and Disston Avenue. Weston has managed multiple city-wide pipeline programs (including for the City of Clearwater), as well as utility design and construction projects through major corridors, including trenchless projects, such as the SSNOCWTA Eagle Circle Force Main project which utilized open-cut, pipe bursting, HDD, sliplining, and jack-and-bore to replace 4,400 feet of force main with connections on a major east-west thoroughfare in Central Florida. Our technical advisor, **Arnelio Alfonso**, has completed significant pipeline designs consisting of large-diameter trenchless installations for projects throughout the state of Florida,

including the design-build of a new redundant 54-inch bypass line/Southside Force Main for the City of Fort Lauderdale. Additionally, our project engineer, **Emily Williamson**, has extensive pipeline design experience with Pinellas County, the City of Clearwater, and other nearby utilities. Emily lives local to the Highland Lakes area and has a vested interest in the project's success.

Beyond our knowledge and experience with this force main, the CHA team is experienced and well-versed in pipeline projects, including:

- Large-diameter piping
- Trenchless design
- Congested corridors
- Sensitive and high-profile areas
- FDOT ROW
- Hydraulic modeling
- Route analysis
- Line stops and bypassing
- Construction sequencing cost feasibility

The following sections demonstrate the understanding of the proposed force main replacement.

LIMITS OF CONSTRUCTION AND ROUTE ANALYSIS

The current pipeline alignment is located in highly residential areas, backyard easements, wetlands, and heavily wooded areas. We would propose evaluating route options to relocate the pipeline into more accessible ROWs, including along Highlands Boulevard. It is our understanding that the county has preferences to relocate utilities out of backyards, where feasible, for the purpose of long-term maintenance access. The options are shown in the **figure on the next page** and summarized as follows:

Alignment A: Utilize Existing Alignment - This option would consider an installation method such as horizontal directional drill (HDD) to replace the main in the same horizontal alignment. The current pipeline is located in residential areas and traverses multiple easements located between homes and/or backyards. If Alignment A were selected, it is anticipated that this option would drill the new force main in the same horizontal alignment underneath the current pipeline. During construction, the existing main would remain online to avoid costly bypassing and any connections would be designed to be constructed quickly with limited interruptions to service. It should be noted that while sliplining could be considered, that this would reduce the diameter too much given the current head conditions. **CHA understands that pipelines in rear easements and heavily wooded areas are no longer preferred and that the county is making efforts to relocate rear of home infrastructure into the roadways or more accessible easements for future maintenance.**

This includes the recently completed nearby CR 95 force main replacement. **As such, CHA has evaluated alternative route options B and C, as described further below.**

[Alignment B: Relocate 20-inch to Highlands Boulevard](#)

This option would relocate the southern extents of the force main out onto Highlands Boulevard instead of within easements and behind homes, starting at the intersection of Lake St. George Boulevard and Ridge Boulevard and continuing north then turning east onto Highlands Boulevard. The portion north of Alderman Road could remain within the same easements and follow the same horizontal alignment as the existing pipeline, traveling through a low-lying wooded area and turning west onto Lake Tarpon Drive, crossing US 19, and continuing along Bee Pond Road before connecting to the force main near PS 302. It should be noted that by relocating the force main starting at Lake St. George Boulevard and Ridge Boulevard, this could increase flexibility in connection options for the future North County Force Main Improvements project that the county has expressed interest in.

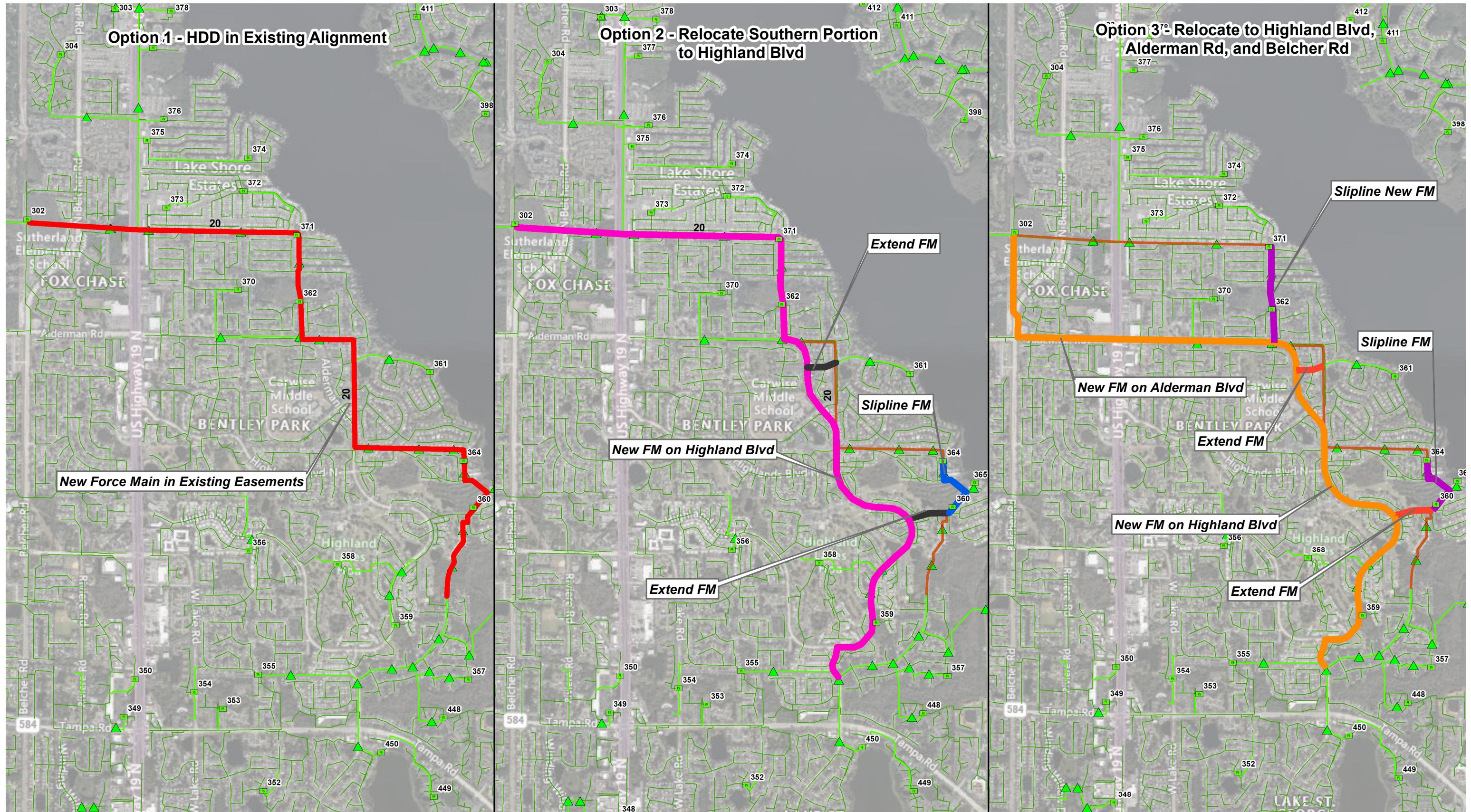


For this alignment, minor infrastructure adjustments to manifolding force mains would be necessary to reconnect the existing force mains from pump stations (PS) 360, 361, 364, and 365. For PS 360, 364, and 365, the existing 20-inch force main could be sliplined with a new pipeline and then extended via open cut to manifold into the new force main at Highlands Boulevard and Loch Road. For PS 361, the force main would be extended via a small open-cut or directional drill to manifold into the new force main at Highlands Boulevard and Shoreline Drive. Additionally, the segment of force main along Ridge Boulevard (just south of the project extents) would switch directions and now flow from north to south. This force main section may be oversized for PS 357 and 448, since they would be the only two stations flowing into the portion along Ridge Boulevard before reaching the new connection on Lake St. George Boulevard. It is anticipated that hydraulic modeling would be utilized to complete a detailed review of the existing pump stations and new alignment options.

This alignment would allow for the consideration and application of multiple installation methods, such as open-cut, HDD, and jack-and-bore. It is anticipated that trenchless options would be heavily utilized to minimize restoration and surface impacts to nearby residents and businesses.

For construction sequence considerations, the existing pipeline could generally stay online for most of the construction work and would require bypassing and/or tankering for short durations during the sliplining and/or extensions of pump station force mains, as described above.

Alignment C: Relocate 20-inch to Highlands Boulevard and Alderman Road - This option would relocate the



southern extents of the force main out onto Highlands Boulevard instead of within easements and behind homes, similar to the above option. For the northern extent, this option would instead include the force main installation on Alderman Road, Belcher Road, and the existing north/south Duke Energy easement leading to PS 302. This modification to the northern section would further eliminate the pipeline being behind homes and crossing a low-lying wetland area. It should be noted that by relocating the force main starting at Lake St. George Boulevard and Ridge Boulevard, this could increase flexibility in connection options for the future North County Force Main Improvements project that the county has expressed interest in.

For this alignment, minor infrastructure adjustments to manifolding force mains would be necessary to reconnect the existing force mains from PS 360, 361, 362, 364, 365, and 371. For PS 360, 364, and 365,

the existing 20-inch force main could be sliplined with a new pipeline and then extended via open-cut to manifold into the new force main at Highlands Boulevard and Loch Road. For PS 361, the force main would be extended via a small open-cut or directional drill to manifold into the new force main at Highlands Boulevard and Shoreline Drive. For PS 362 and 371, the existing 20-inch force main could be sliplined and manifolded into the new force main at Alderman Road. This option would also further allow for the force main from PS 370 (located in The Groves neighborhood north of Alderman Road) to be directly manifolded into the new force main at Alderman Road and Cinnamon Boulevard, thus, eliminating ~2,000 feet of 8-inch force main and one associated air release valve (ARV). Additionally, the segment of force main along Ridge Boulevard (just south of the project extents) would switch directions and now flow from north to south. This force main section may be oversized for PS 357 and 448, since they would



Loch Road & Highlands Boulevard

be the only two stations flowing into the portion along Ridge Boulevard before reaching the new connection on Lake St. George Boulevard. It is anticipated that hydraulic modeling would be utilized to complete a detailed review of the existing pump stations and new alignment options.

This option would allow for the consideration and application of multiple installation methods, such as open-cut, HDD, and jack-and-bore. It is anticipated that trenchless options would be heavily utilized to minimize restoration and surface impacts to nearby residents and businesses.

For construction sequence considerations, the existing pipeline could generally stay online for most of the construction work and would require bypassing and/or tankering for short durations during the sliplining and/or extensions of pump station force mains, as described above.

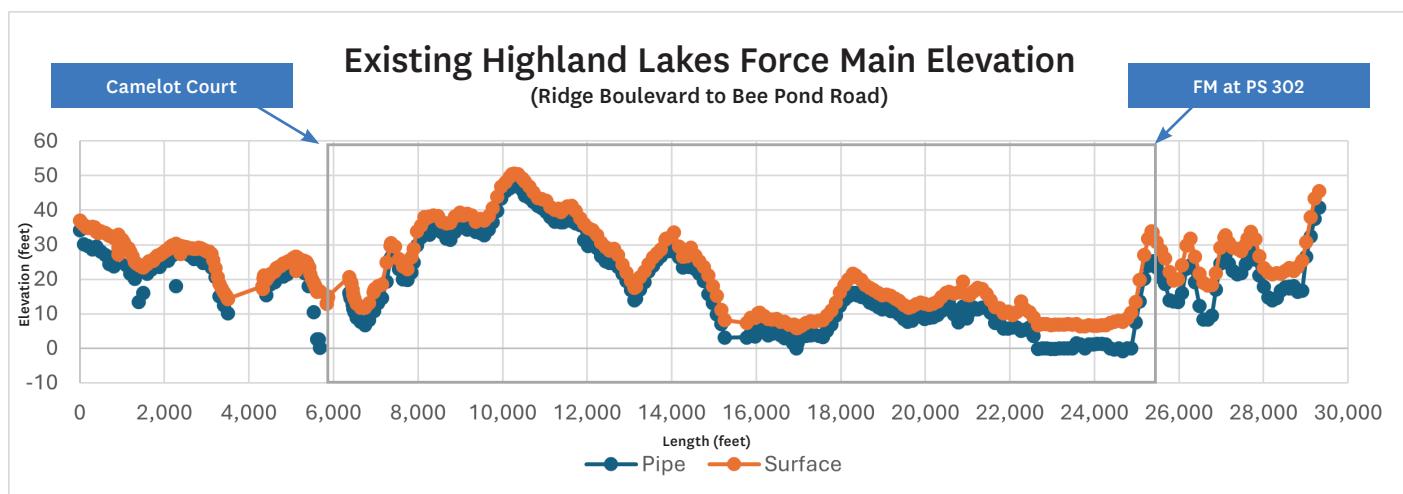
It is recommended that Alignment B or C be utilized, and will be explored further in collaboration with the county and upon further detailed reviews of available information.

REVIEW OF INSTALLATION OPTIONS

As detailed above in the route analysis, the proposed areas of pipeline replacement include highly residential areas and critical road crossings. Where the pipelines cross major roadways, intersections, or other surface features, consideration will be given to trenchless installation techniques, including HDD or jack-and-bore, so that disruption and restoration are minimized to nearby residents, traffic, schools, and businesses.

Option 1- HDD

Horizontal directional drill (HDD) is a commonly used method for pipeline installation for the county as it minimizes disruptions to adjacent properties, minimizes restoration, and offers solutions for complicated roadway crossings. It is anticipated that HDD will be utilized for a significant



portion of the force main installation based on the route options reviewed above and when considering the highly residential areas and significant road crossings throughout the project extents.

Our team will utilize tools, including hydraulic modeling and bore-aid, to evaluate the use of HDD installation for this force main. During design, careful consideration will be made for the placement of entry and exit pits to **limit disturbing adjacent neighbors while maximizing the HDD**. We understand the limitations in disturbances to the project area would require space for laydown to fuse and pull pipeline.

We also understand that HDD installations typically result in a depth of pipe at least 10 times the pipe diameter; in this case, at least 20 feet deep. In addition to the significant depth, CHA understands that the county has experienced challenges with soil conditions for an HDD to replace the south force main into Dunn WRF and subsequently had to modify the design and slipline the existing main. **CHA plans to include detailed geotechnical analysis during the preliminary evaluations of this project to avoid any surprises.**

HDD has unique challenges with significant benefits in reducing restoration, limiting traffic impacts, and more. We know the county makes all possible efforts to maintain positive public perceptions and utilizes HDD as a strategy in doing so.

Option 2 – Open-cut

Open-cut construction of the complete force main would be a feasible option but would result in significant above-ground and notably visible impacts to citizens in the vicinity of the project area. Given the highly residential nature of this project, we anticipate that open-cut would generally be limited in an effort to maintain traffic flow, avoid significant restoration, and avoid disruptions. Open-cut would likely be used for smaller segments of pipe, traversing utility conflicts, installation of fittings or valves, or making connections between HDDs or to existing pipelines.

When open-cut installation is used, it would require more extensive construction sequencing and planning to ensure that construction installation would be conducted during off-peak traffic flow times and that the roadway is restored for traffic flow at the end of each business day, whenever possible.

The open-cut installation option would require more extensive public outreach and notification to inform the residents and businesses of the planned work and potential significant detours. If this option is selected, **CHA and our strategic subconsultant, Dialogue PR, will work closely with the county to make sure that ample notification and information is provided before work begins and throughout the construction process.**

Option 3 – Slipline

A sliplining option would provide an option to install an HDPE or fusible PVC (FPVC) force main within the existing main and subsequently eliminate some of the challenges that arise when attempting to design a large-diameter force main in a congested and busy ROW. It is anticipated that sliplining would be used in locations where the force main has been relocated, and additional piping is necessary to connect to the new main, such as to reconnect PS 360, 362, 364, 365, and 371 as described in the routing analysis.

This process would require ‘sending’ and ‘receiving’ pits to be excavated at specific locations where the force main section would be removed to allow the new main to be pulled within the existing main. CHA would specifically identify the ‘sending’ and ‘receiving’ pits with consideration for both limited impact to below-grade utilities and available space for staging, fusing, and pulling of the new force main. This process generally considers where fittings, valves, and other appurtenances that cannot be sliplined are located.

Sliplining would require some extent of bypassing and/or tankering to collect wastewater flow at pump stations to avoid overflows and maintain service throughout the process. **During the previously completed Klosterman Road and Disston Avenue replacements, CHA carefully specified a bypassing through linestop design to allow for wastewater service to remain uninterrupted through the entire duration of pipeline replacement.** Additionally, during the same project, CHA collaborated with the county and contractor to complete an entire shutdown of the 30-inch force main on Klosterman Road and Disston Avenue to complete the removal of existing non-functional ARVs by tankering wastewater strategically from upstream pump stations (including key PS 393). **CHA will similarly collaborate with the county during this project to identify feasible options to maintain wastewater service.**

PROJECT SCOPE

Project Management and Schedule

We understand that numerous factors drive the need for timely project completion and that completing projects within budget is imperative to ensure that work is completed within the established capital improvement plan (CIP) budget. The county will benefit from CHA’s strong emphasis on maintaining schedule and budget requirements when completing projects.

The CHA team will work with county staff to meet the established schedule that clearly defines project deliverables, project milestones/due dates, and community workshops or other public meetings. CHA’s **proposed schedule on page 84** is based on the scope of work detailed in the county’s RFQ, including 365 days for design services, 180 days for bidding

services, and 400 days for construction. **The CHA team is committed to completing this project on schedule and will maintain timely reviews and decision-making.**

Preliminary Engineering and 30% Design

CHA will use its understanding of the wastewater system to plan preliminary engineering activities and develop a Preliminary Engineering Report (PER) and 30% design to provide a basis of design and ensure the project approach aligns with the county's goals.

Hydraulic Modeling - CHA will model each new system to be appended to the county's PCSWMM wastewater collection system model. CHA is familiar with the county's modeling methodology, which was developed for the county's flow monitoring projects, and will verify any changes based on the ongoing Wastewater Master Plan. CHA will use the model prepared as part of the Wastewater Master Plan and consider scenarios, as needed, to confirm that the project meets the county's design criteria.

CHA will complete a detailed analysis of the existing system and proposed route alignments utilizing the hydraulic model. This analysis will also be an opportunity to consider optimization of the existing pump stations. **Our team completed the hydraulic modeling for the PS 357 project, which considered specific challenges of high head conditions that limited pumping during certain times. CHA will take this knowledge and expertise of the nearby area to complete a full review of the potential alignment options and connections.** Our analysis will also review the existing sizing and if any potential upsizing may be necessary.

Survey and SUE - Our surveyor (ECHO) will complete site survey and utility designation with test holes in these areas. CHA and ECHO have worked together on multiple projects for the county, including the North County force main assessments and the Dunn WRF Electrical Improvements.

CHA and ECHO also work together for other utility owners, including on the City of Clearwater's potable and reclaimed water pipe replacement projects, consisting of surveys across thousands of feet of pipe replacements and involving continued coordination and communication. ECHO has completed a portion of the survey for force main assessments completed across the proposed replacement pipeline. As such, ECHO already has existing benchmarks and knowledge of this pipeline.

Geotechnical Engineering - Geotechnical borings will be performed to the anticipated depth of the installations to ensure that soils are suitable for the proposed methods of installation; this is a critical step for projects that include large-diameter pipe and trenchless installations. The survey and borings will be incorporated into the preliminary design report, which will include drawings depicting an approximate 30% level of completion.

Easement Evaluation and Acquisition - Easement evaluation and acquisition will be performed as necessary for this project. **CHA has significant experience in assisting with documentation for obtaining utility easements.** CHA and ECHO have assisted SSNOCWTA in obtaining easements for force mains and lift stations, including developing sketches and legal descriptions.

Additionally, CHA staff has a substantial understanding of the Pinellas County easement process. **Joe Graham, JD, PE**, has previously provided internal support to the county for legal easement and acquisition and would provide unparalleled support on this project to obtain any required permanent or temporary construction easements necessary for the construction of the force main.

Inter-Department Coordination - This project will require coordination within the county's Utilities Department and additional coordination with Public Works and Pinellas Trail groups. Throughout the design, CHA will assist in providing technical information for other departments to understand the proposed work and plan for potential impacts, including traffic and pedestrian impacts.

PER 30% Design - CHA will develop a PER and 30% design documents using information collected from the above-described subtasks. This will include topographic survey, preliminary SUE, preliminary alignment, identifying temporary or permanent easements, identifying necessary technical specifications, and developing an engineer's opinion of probable construction cost (OPCC).

Detailed Design

Once preliminary engineering is completed and the 30% design is approved by the county, the detailed design package consisting of the 90% and final design drawings and specifications for construction will be completed. Each set of intermediate design products will be delivered to the county for review. The 90% design submittal packages will be reviewed in a workshop setting with key members of our project team and county staff. These workshops will expedite the review and revision process. During the final design, we will use the following goals and objectives to deliver a successful project:

- Conduct final subsurface utility investigations.
- Show remaining existing utilities.
- Prepare the final force main plan and profile, including valves, fittings, appurtenances, etc., with notations and coordinate geometry.
- Prepare existing utility relocation, replacement, or adjustments.
- Show surface restoration requirements.
- Show temporary and permanent construction easements.
- Prepare detail sheets using Pinellas County Standard Details.

- Prepare technical specifications using Pinellas County Standard Technical Specifications and necessary supplemental specifications.
- Prepare quantity take-off and cost estimate using Pinellas County's standard pay items.
- Apply for permit approvals.
- The cost of the project must be within the allocated budget, and the improvements should be cost-effective to operate and maintain and provide the expected service life .
- Detailed MOT plan to ensure any traffic flow interruption is minimized.
- Listening to the thoughts and ideas that are put forth by county staff.
- Acting on county staff thoughts and ideas.
- Construction sequencing to maintain utilities services.
- Use of AutoCAD Civil 3D design to avoid conflicts before construction activities commence.

There will undoubtedly be other goals and objectives that are important to the county. Once the information collection and preliminary engineering assessments are complete and detailed design is underway, the design workshops with key county staff will be critical to ensuring that the county's goals and success factors are incorporated as the design progresses (before such changes will become impactful to the project schedule and budget).

County staff will be encouraged to offer thoughts and suggestions during these workshops. The county has our full commitment that we will be open to considering your concerns and ideas as they are provided throughout this project.

Permitting

The anticipated involvement with roadways, stormwater management systems, public communities, and commercial businesses requires a thorough understanding of the permitting agencies involved.

Based on our preliminary review, required permits include an FDEP general use permit, Pinellas County ROW permit, FDOT permit for the US 19 Crossing, and potential ERP permits, depending on final route selection. It is also anticipated that a temporary easement may be necessary at the Duke Energy transmission easement, depending on the final route selection.

From an environmental perspective, we will work to familiarize ourselves with the potential groundwater contamination points along the utility corridor route that may affect construction techniques. We will also carefully evaluate the acceptable means by which to discharge contaminated groundwater from trench dewatering activities. We will conduct groundwater sampling and testing at suspected contamination points, considering the water quality parameters specified in the FDEP Generic Permit for the

Discharge of Produced Ground Water from any Non-contaminated Site Activity, Chapter 62-621, paragraph 62-621.300(2), F.A.C. Should the results of the water analysis indicate that constituents of concern exceed the allowable levels specified in the Screening Values for Discharge of Produced Ground Water in the aforementioned permit conditions, we will provide recommendations to address the responsible discharge of the contaminated water. Additionally, CHA is aware of the potential presence of gopher tortoise burrows in the project area, which may require specific permitting.

Bidding and Post-Design Services

CHA understands that bidding and post-design services during construction are key elements to project success. CHA is familiar with the county's construction process, having recently provided construction support for multiple projects in the north county area, most recently being the Klosterman Road and Disston Force Main Improvements and the S.K. Keller Water Treatment Plant (WTP) Polyphosphate Improvements projects. CHA will facilitate timely reviews of shop drawings and conduct construction field visits to verify that construction installations are completed per the specifications and make sure that all work remains on schedule to meet funding requirements. Following construction completion, CHA will verify that the contractor provides detailed as-built information for complete record drawings.

Funding

Since the proposed design adds additional piping for replacement, CHA can assist the county in identifying and applying for funding to support this project. CHA is well-versed in assisting utility owners, such as Seminole County and the City of Haines City, with procuring additional funding to support the completion of projects. CHA will evaluate factors that may qualify this project for funding, including but not limited to improved resiliency, prevention of SSOs, and other prevalent factors.

Public Outreach

Public outreach will be incorporated and prioritized as part of this project. CHA understands community outreach and an understanding of this project area is important positive public perception. The project area includes the highly residential areas and critical road crossings. The CHA team includes **Dialogue PR**, a public relations firm who recently provided services for the PS 16 Redundant Force Main Project to South Cross Bayou AWRF. The CHA team will create detailed project messages, fact sheets, messages for Alert Pinellas, social media alerts, and news releases. The team will make sure that any construction along the Pinellas Trail is communicated internally and externally to allow the trail to remain open as much as possible.

Quality Assurance/Quality Control (QA/QC) Program

CHA uses proactive quality management planning and execution initiated at the earliest possible time in project development and then implemented and monitored throughout design development. Quality does not simply end with the deliverable. CHA will have a vested interest in the project's quality through project construction and closeout.

Before beginning any project work, CHA's project managers prepare a Project-specific Work Plan (PSWP). The PSWP must comply with basic CHA corporate requirements but is then tailored to the specific project requirements at the project manager's discretion. Each PSWP will include identifying project stakeholders, project location and history, scope of services, schedule, budget, Quality Management Plan (QMP), roles and responsibilities of the team, communication style and frequency, file management procedures, and procedures for managing out of scope items.

The project-specific QMP will be customized as a collaborative effort involving the project managers and technical leads. CHA's quality manager will be:

1. Available to assist in the QMP preparation should the need arise
2. Responsible for reviewing and certifying the QMP for consistency and compliance before project work begins

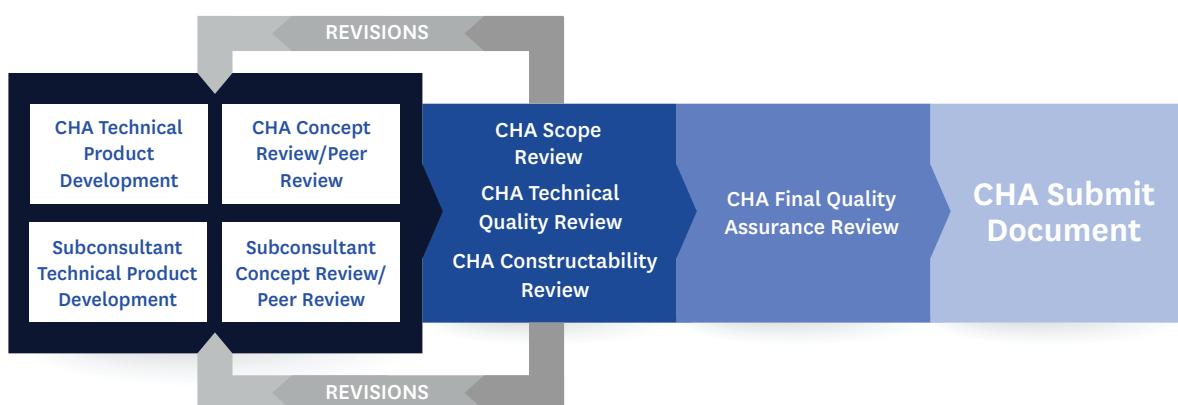
CHA uses a “**Red, Yellow, Green**” (“**RYG**”) quality review process so that work products and deliverables are fully and consistently reviewed, resolved, and recorded. Our professionals who create the design or prepare the work products bear the primary responsibility for completeness, content, form, and technical accuracy.

We require a formal check and review of all work products and deliverables. The “**RYG**” quality review process follows a consistent workflow sequence whereby each design element/work product is highlighted in **YELLOW** to signify that review has occurred. Any direct corrections are annotated in **RED**, and commentary and/or instructions are annotated

in **BLUE** or **BLACK**. The checker signs and dates the review set and returns the documents to the design element/work product originator.

The originator evaluates the checkers' comments and works with the checker to resolve each comment. **GREEN** annotations signify agreement with, or the resolution of, the review comments. Corrections are made to the designs or drawings and are then verified by the checker, who places a QA/QC stamp on each drawing or design. Finally, the originator, checker, corrector, and verifier sign and date each drawing or design to verify that the process has been followed for complete quality compliance. The team does not advance or submit any work products or deliverables until they have satisfied the QMP.

Our QA/QC procedure's continual review enables CHA to maintain a high level of integrity in our work and improve the efficiency of our deliverables for our clients. Having the QA/QC procedure as an integral part of CHA's work plan allows our project team to review our deliverables numerous times before their delivery. This procedure eliminates a significant amount of errors and omissions that typically bog down client reviews and cost the county critical manhours. Over and above the QA/QC procedure is company policy verifying that every document is reviewed internally has been maintained over the years. The QA/QC plan is critical to the overall quality and consistency of the team's work products and services and has been successfully used by CHA staff to achieve quality goals for many years. **To maintain and verify quality while maintaining the schedule, CHA will leverage the strengths and experience of our team members to assist in the QA/QC process and successfully execute each task under the scope of services.** As a standard, each deliverable must be approved internally before external distribution to the county. CHA uses a robust internal quality management system (QMS), which is used for all projects to establish QA/QC standards, policies, and procedures. The QMS is executed for all projects for the design, development, and delivery of quality submittals.



PROPOSED SCHEDULE

25-0210-RFQ-CCNA Highland Lakes Force Main Replacement - Professional Engineering Services															
Task Name	Duration	Start	Finish	2025				2026				2027			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
RFQ Process	90 days	3/20/2025	6/18/2025												
Proposal Submittal Due Date and Time	1 day	3/20/25													
Evaluation Committee Meeting	1 day	4/4/25													
Board Approval of Selection and Award	1 day	4/18/25													
Notice to Proceed from County	1 day	6/18/25													
Task 1.0 Project Management	940 days	6/18/25	1/14/28												
Project Management	940 days	6/18/2025	1/14/2028												
Schedule Tracking	940 days	6/18/2025	1/14/2028												
Kickoff Meeting	1 days	6/18/2025	6/18/2025												
Review Meetings	940 days	6/18/2025	1/14/2028												
Task 2.0 Preliminary Engineering and 30% Design	205 days	6/18/2025	1/9/2026	—	—	—	—	—							
Data Request and Review	20 days	6/18/2025	7/8/2025												
Identification and Review of Existing Easements	20 days	6/18/2025	7/8/2025		—										
Hydraulic Modeling	40 days	6/18/2025	7/28/2025			—									
Route Analysis	40 days	6/18/2025	7/28/2025			—									
Geotechnical Investigation and Evaluation	45 days	7/28/2025	9/11/2025			—									
Topographic Survey	90 days	7/28/2025	10/26/2025												
Subsurface Utilities Engineering	30 days	12/10/2025	1/9/2026			—									
Preliminary Engineering Report and 30% Design Documents	65 days	10/26/2025	12/30/2025	—	—	—	—	—	—	—	—				
Task 3.0 Design Services - 90% and Final Design	150 days	12/30/2025	5/29/2026												
90% Design Documents and OPPC	90 days	12/30/2025	3/30/2026	—											
100% Design Documents and OPPC	60 days	3/30/2026	5/29/2026	—											
Task 4.0 Permitting	75 days	3/30/2026	6/13/2026		—										
FDEP Construction Permit	60 days	3/30/2026	5/29/2026												
FDEP ERP Permit	75 days	3/30/2026	6/13/2026	—											
FDEP Noticed General Permit	75 days	3/30/2026	6/13/2026	—											
FDOT Permit	75 days	3/30/2026	6/13/2026	—											
Miscellaneous Right of Way Permits and/or Coordination	75 days	3/30/2026	6/13/2026	—	—	—	—	—							
Task 5.0 - Bidding Services	180 days	6/13/2026	12/10/2026												
Bidding Services	180 days	6/13/2026	12/10/2026												
Task 6.0 - Post Design Services	400 days	12/10/2026	1/14/2028												

THE DURATION OF TASKS 2, 3, AND 4
IS 360 DAYS

PREPARED FOR:

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FOR MORE INFORMATION, PLEASE CONTACT:

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