

Prepared for
City of Delray Beach

Continuing Engineering Consulting Services

Water Treatment Design Services

RFQ NO.: 2025-007
Qualification / December 2024



CHAPTER

1

Letter of Intent



2056 Vista Parkway, Suite 150
West Palm beach, Florida 33411
561-868-6400
carollo.com

December 4, 2024

The City of Delray Beach
100 NW 1st Avenue
Delray Beach, FL 33444

RE: RFQ No. 2025-007 for Continuing Engineering Consulting Services -
Water Treatment Design Services

Dear Ms. Thompson and Members of the Selection Committee:

Carollo Engineers appreciates the opportunity to submit our Statement of Qualifications (SOQ) for the City of Delray Beach's Continuing Engineering Consulting Services—Water Treatment Design Services.

Since being selected for our first Continuing Engineering Consulting Services contract in 2017, we have been working with your staff to deliver a wide array of projects at the water treatment plant and distribution system, including the design and construction management of filter improvements; assessment and design of 4-log improvements; assessment of the softening process; chemical storage and feed improvements; conceptual design of a new laboratory; an Environmental Health and Safety Assessment; a study and implementation of AMR alternatives; and an assessment of your process to budget and implement capital improvements.

These projects have truly required the breadth of Carollo staff to provide the innovative ideas that we are known for, while being mindful of your budget constraints and respectful of your preferences.

Many of our staff members have developed a personal connection to the success of your projects, leading to the drive to find innovative approaches to create substantial cost savings and other lasting benefits.

Your projects will be delivered from our West Palm Beach office, providing access to our south Florida staff that has grown to 34 engineers that are currently delivering similar continuing engineering services for Boynton Beach, Pompano Beach, Sunrise, Pembroke Pines, North Miami Beach, and Broward County.

As you review this qualifications statement, we hope you agree that Carollo has proven our ability to **creatively identify and cost effectively implement the best solutions with exceptional client service**. We look forward to working with your staff on the next Continuing Engineering Consulting Services contract.

Sincerely,

CAROLLO ENGINEERS, INC.

A handwritten signature in blue ink, appearing to read "Elizabeth Fujikawa".

Elizabeth Fujikawa, PE, BCEE, LEED AP
Vice President/Project Manager



City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

PROPOSAL SUBMITTAL SIGNATURE PAGE

By signing this Proposal, the Proposer certifies that it satisfies all legal requirements as an entity to do business with the City, including all Conflict of Interest and Code of Ethics provisions.

Submitting for the following category: (Circle Only One)

1. Water Treatment Design Services
2. Wastewater Pump Station and Underground Pipeline Design Services

Firm Name: Carollo Engineers, Inc.

Street Address: 2056 Vista Parkway, Suite 150, West Palm Beach, FL 33411

Mailing Address (if different from Street Address): S/A

Telephone Number(s): 561-868-6400

Fax Number(s): 561-868-6401

Email Address: efujikawa@carollo.com

Federal Employer Identification Number: 86-0899222

Signature: 
(Signature of authorized agent)

Print Name: Elizabeth Fujikawa, PE, BCEE, LEED AP

Title: Vice President

Date: December 4, 2024

By signing this document, the Proposer agrees to all terms and conditions of this Solicitation and the resulting contract/agreement.

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF Proposer TO BE BOUND BY THE TERMS OF ITS PROPOSAL, FOR NOT LESS THAN 120 DAYS, AND THE Proposer's UNEQUIVOCAL OFFER TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH IN THIS SOLICITATION. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE, BY AN AUTHORIZED REPRESENTATIVE, SHALL RENDER THE PROPOSAL NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT

City of Delray Beach Utilities Department
RFQ No. 2025-007
Continuing Engineering Consulting Services

Signature Authority

Indicate below Proposer's type of organization and provide the required documentation as applicable to demonstrate that the executor of Proposer's Proposal is duly authorized to execute on behalf of, and as the official act of, Proposer.

Select	Type of Organization	Officer Who Signed Proposal Submittal Signature Page	Required Authorizing Documentation
<input checked="" type="checkbox"/>	Corporation	President, Vice President, or Chief Executive Officer	None
<input type="checkbox"/>	Corporation	Director, Manager, or other title	Corporate resolution
<input type="checkbox"/>	Limited Liability Company (LLC) – Member-Managed	Member	Articles of Organization or Operating Agreement
<input type="checkbox"/>	Limited Liability Company (LLC) – Manager-Managed	Manager	Articles of Organization or Operating Agreement
<input type="checkbox"/>	Limited Partnership	General Partner	Document demonstrating the legal authority to bind the Limited Partnership
<input type="checkbox"/>	Partnership	Partner	None
		CEO, Director, Manager or other title	Authorizing documentation
<input type="checkbox"/>	Individual	Individual	None

☒ Documentation is not required.

☐ The required authorizing documentation is included with Proposal.

CHAPTER

2

Statement of Organization W-9



Chapter 2: Proposer's Statement of Organization W-9

Firm Information and Local Contact

A. Legal Name: Carollo Engineers, Inc.

B. State of Incorporation: Delaware

C. Ownership Structure: Corporation

D. W-9: Included at the end of this section.

E. Corporate Headquarters:

2795 Mitchell Drive
Walnut Creek, CA 94598
Ph: 925-932-1710

F. Local Office:

2056 Vista Parkway, Suite 150
West Palm Beach, FL 33411
Ph: 561-868-6400

G. Primary Representative:

Liz Fujikawa, PE, BCEE, LEED AP
2056 Vista Parkway, Suite 150
West Palm Beach, FL 33411
Ph: 561-868-6400
efujikawa@carollo.com
561-868-6400

H. Secondary Representative:

Tung Nguyen, PE, PMP
2728 North University Drive, Bldg. 2700
Coral Springs, FL 33065
tnguyen@carollo.com
954-837-0030

I. List of Officers, Owners, and/or Partners, or Managers of the Firm:

BOARD MEMBERS

B. Narayanan, PhD, PE

President and Chief Executive Officer
2795 Mitchell Drive
Walnut Creek, CA 94598
925-932-1710

Vincent Hart, PE

Executive Vice President and
Managing Director of Technical Practices
101 East Kennedy Blvd, Suite 700
Tampa, FL 33602
813-888-9572

David Sobeck, III, PE

Executive Vice President and
Managing Director of Marketing
4600 East Washington Street, Suite 500
Phoenix, AZ 85034
602-263-9500

Scott Hoff, PE

Executive Vice President and
Managing Director of Client Services
14755 Preston Road, Suite 500
Dallas, TX 75254
972-239-9949

Troy Hedlund, PE

Executive Vice President and
Managing Director of Internal Operations
5355 Mira Sorrento Place, Suite 270
San Diego, CA 92121
858-505-1020

Michelle Cannon

Executive Vice President and
Managing Director of People
4600 East Washington Street, Suite 500
Phoenix, AZ 85034
602-263-9500

Michael Barnes

General Counsel
2795 Mitchell Drive
Walnut Creek, CA 94598
925-932-1710

J. Current or Pending Litigation

Carollo Engineers, Inc., has been involved in the following litigation matters in the last five (5) years however, no actions have been against and/or involved (1) any public agency in Florida; or (2) any private entity for an amount greater than \$100,000.

- In 2020, Carollo and their joint venture partner were the subject of a lawsuit filed by a client related to tank corrosion as part of a design-build project completed in 2005. The matter was submitted to mediation and thereafter settled with no admission of fault by Carollo.
- In 2021, Carollo was the subject of a lawsuit filed by a client related to the replacement of trickling filter media as part of a wastewater treatment plant rehabilitation project. Carollo denies responsibility for any of the claims. The lawsuit is in progress.
- In 2021, Carollo and the construction contractor were the subject of a lawsuit filed on behalf of a client via subrogation by their insurance carrier related to ozone equipment installed as part of a new surface water treatment plant project. The lawsuit was dismissed.

K. Ownership Changes in the Past Two Years or Anticipated Changes

Carollo has had continuous ownership and has had no ownership changes in the past two years and there are no changes anticipated of ownership or executive leadership in the next six months.

Form **W-9**
(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.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See Specific Instructions on page 3.	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.) Carollo Engineers, Inc	
	2 Business name/disregarded entity name, if different from above.	
	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. <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C corporation <input checked="" type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) 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. <input type="checkbox"/> Other (see instructions) _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
	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 <input type="checkbox"/>	
	5 Address (number, street, and apt. or suite no.). See instructions. 2795 Mitchell Drive 6 City, state, and ZIP code Walnut Creek, CA 94598-1601 7 List account number(s) here (optional)	Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

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

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

Social security number								
			-					
or								
Employer identification number								
8	6		-	0	8	9	9	2 2 2

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	Connie Barney	Digitally signed by Connie Barney Date: 2024.04.03 15:53:24 -07'00'	Date
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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

Minimum Qualifications Documentation

- A. Experience
- B. Authorization to do Business
- C. Valid License
- D. Conflict of Interest
- E. GSA Standard Form 330
- F. Litigation History

The background is a grayscale photograph of a construction site. In the foreground, a person's hands are visible, one typing on a laptop keyboard and the other pointing at a tablet. A white hard hat sits on the desk next to the laptop. The scene is brightly lit, possibly by natural light from a window. A decorative blue graphic consisting of many horizontal, slightly wavy lines is positioned across the upper third of the image.

CHAPTER

3

Minimum Qualifications Documentation

A. Experience

Chapter 3: Minimum Qualifications Requirements

A. Experience

Continuous Practice Since 2000: Business License

Florida dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

9:28:38 AM 2/13/2023

ONLINE SERVICES

- Apply for a License
- Verify a License
- 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: CAROLLO ENGINEERS, INC. (Primary Name)
Main Address: 2056 VISTA PARKWAY SUITE 400 WEST PALM BEACH Florida 33411
County: PALM BEACH

License Information

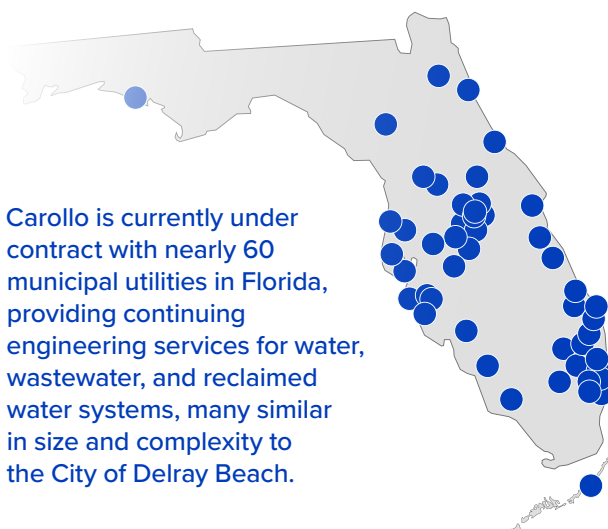
License Type: Engineering Business Registry
Rank: Registry
License Number: 8571
Status: Current
License Date: 06/26/2000
Expires:

Special Qualifications **Qualification Effective**

Alternate Names

Carollo is the Firm of Choice for Numerous Florida Utilities

Continuing engineering services contracts



Licensee						
Name:		CAROLLO ENGINEERS, INC.		License Number:		8571
Rank:		Registry		License Expiration Date:		
Primary Status:		Current		Original License Date:		06/26/2000
Related License Information						
License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
65401	Current, Active	BAUMBERGER, LAURA B	Registry		Professional Engineer	02/28/2025

Resident office in Palm Beach County: Business Tax Receipt

ANNE M. GANNON
CONSTITUTIONAL TAX COLLECTOR
Serving Palm Beach County
Serving you.

P.O. Box 3353, West Palm Beach, FL 33402-3353
www.pbctax.com Tel: (561) 355-2264

****LOCATED AT****
2056 VISTA PARKWAY STE #150
WEST PALM BEACH, FL 33411

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #/DATE PAID	AMT PAID	BILL #
ENGINEER BUSINESS	CAROLLO ENGINEERS INC	8571	B24.618453 07/08/2024	\$33.00	B40124228

This document is valid only when receipted by the Tax Collector's Office.

2-113
CAROLLO ENGINEERS INC
CAROLLO ENGINEERS INC
4600 E WASHINGTON ST STE 500
PHOENIX AZ 85034-1915

**STATE OF FLORIDA
PALM BEACH COUNTY
2024 / 2025 LOCAL BUSINESS TAX RECEIPT
LBTR Number: 201007511
EXPIRES: 09/30/2025**

This receipt MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

Minimum Qualifications Documentation

B. Authorization to do Business

B. Authorization to do Business

State of Florida Department of State

I certify from the records of this office that CAROLLO ENGINEERS, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on May 25, 2000.

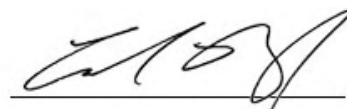
The document number of this corporation is F00000003055.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on February 14, 2024, 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 Fifteenth day of February,
2024*




Secretary of State

Tracking Number: 3267143936CU

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

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

CHAPTER

3

Minimum Qualifications Documentation

C. Valid License

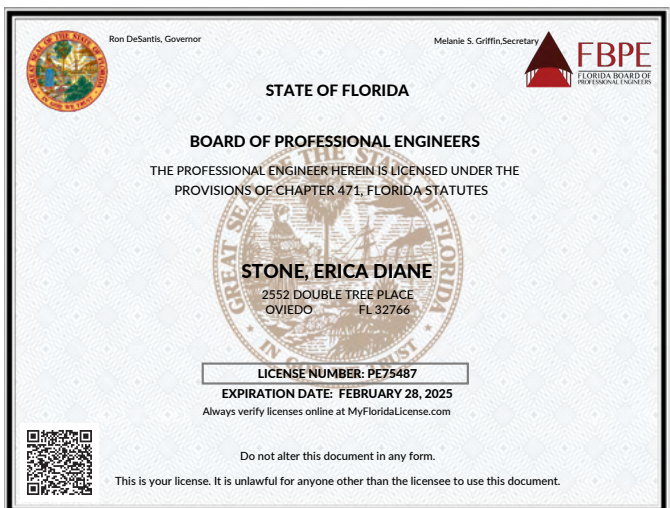
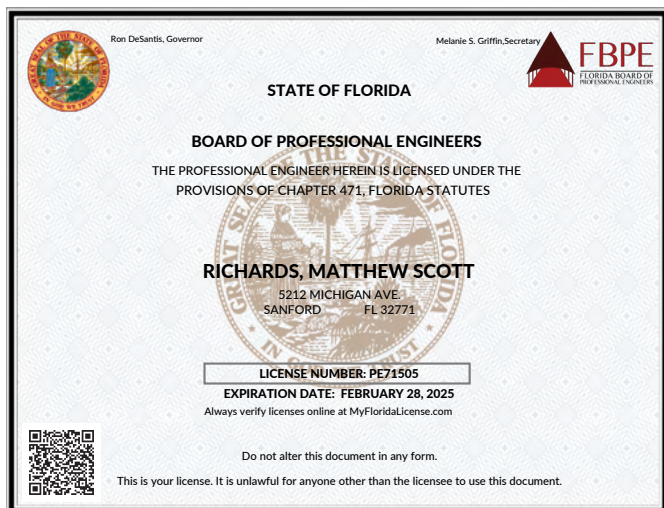
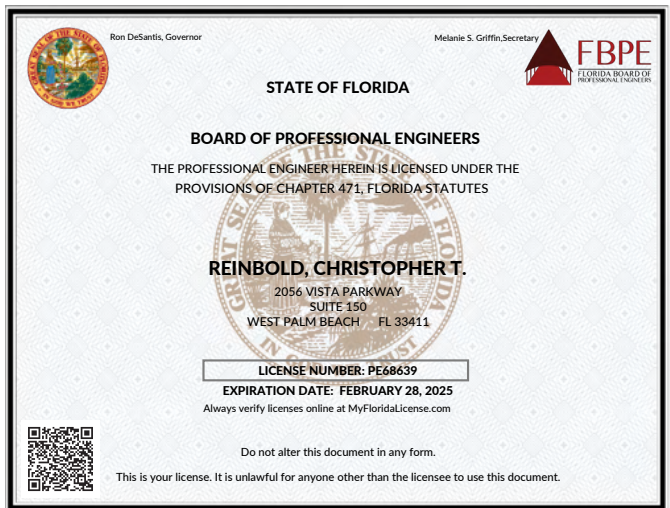
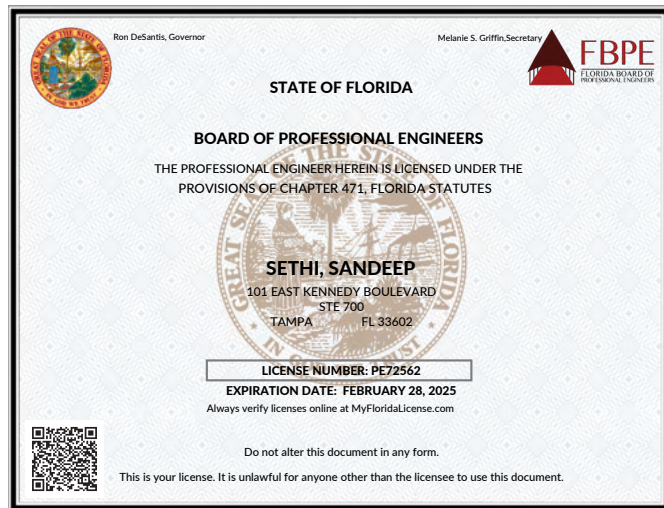
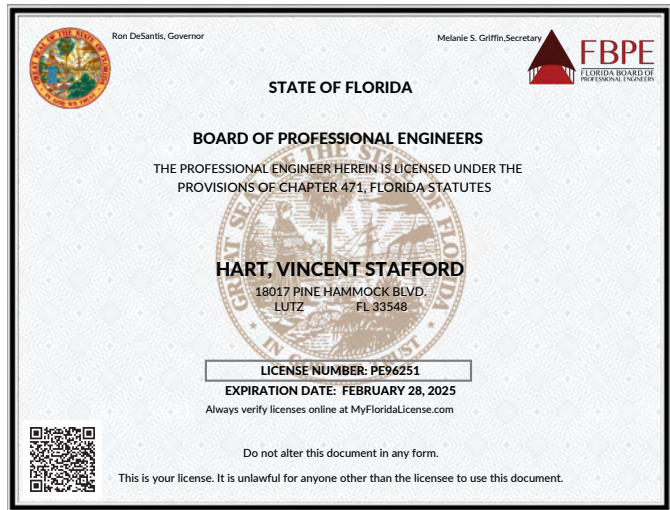
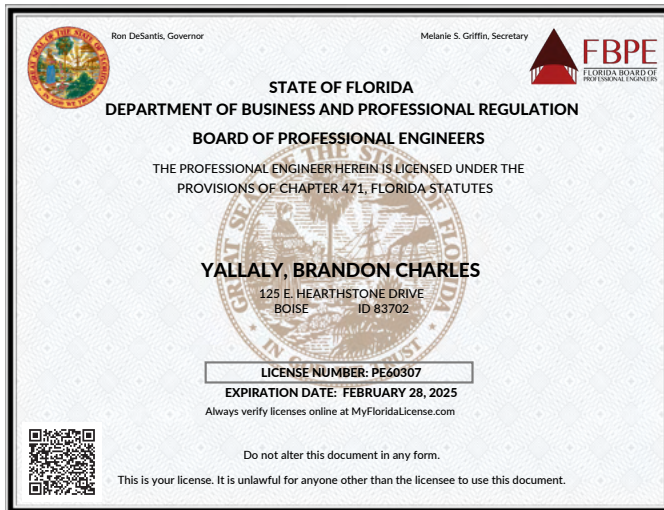
C. Licenses

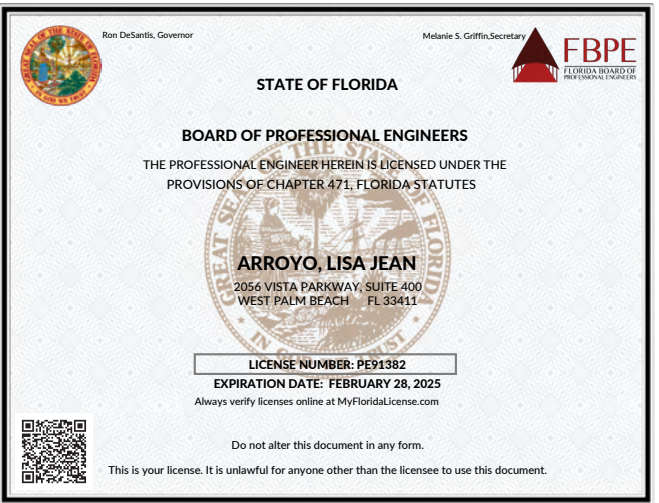
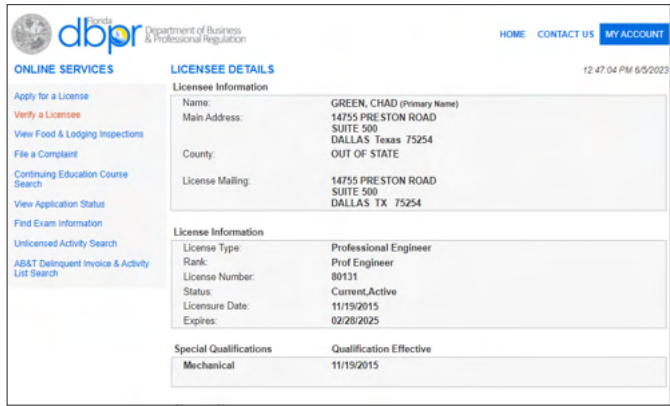
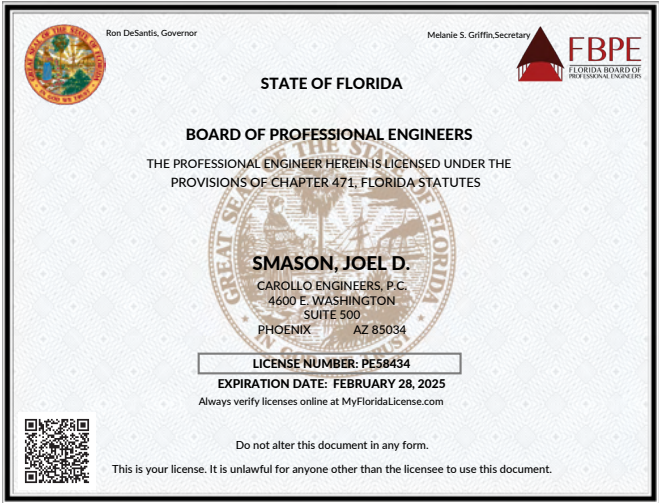
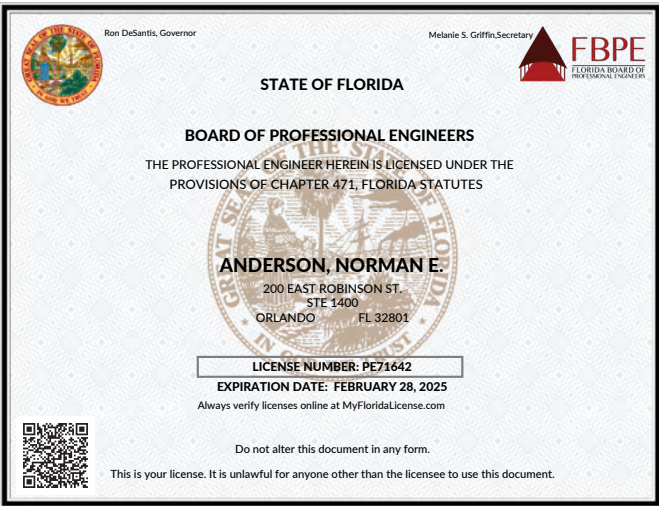
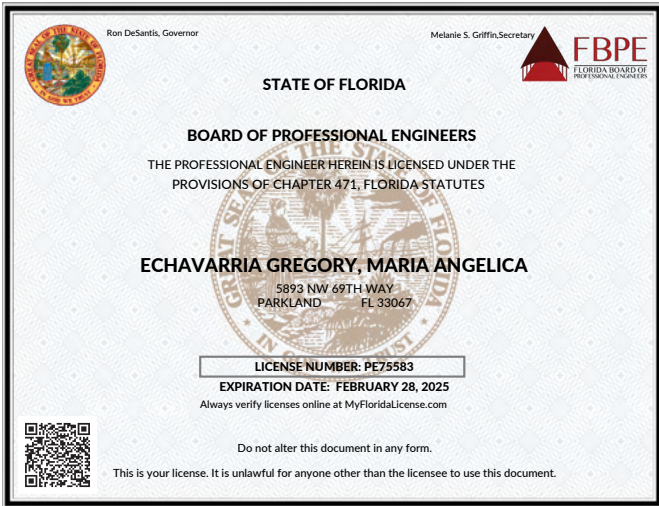
Carollo: Business Engineering License

Licensee						
Name:		CAROLLO ENGINEERS, INC.		License Number:	8571	
Rank:		Registry		License Expiration Date:		
Primary Status:		Current		Original License Date:	06/26/2000	
Related License Information						
License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
65401	Current, Active	BAUMBERGER, LAURA B	Registry		Professional Engineer	02/28/2025

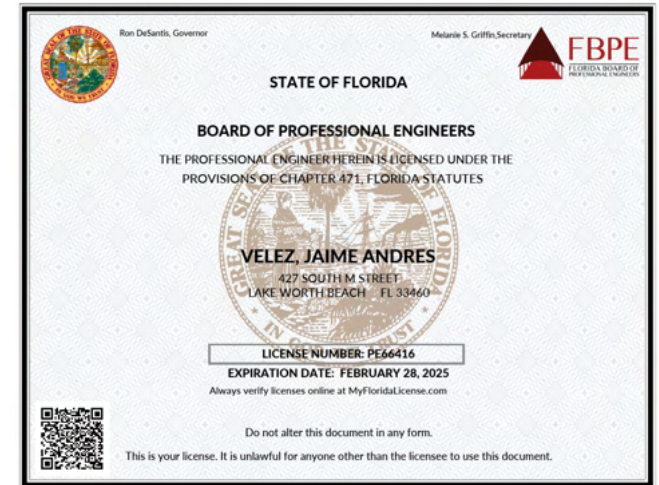
Carollo: Individual Professional Engineer Licenses

 <p>STATE OF FLORIDA</p> <p>BOARD OF PROFESSIONAL ENGINEERS</p> <p>THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES</p> <p>FUJIKAWA, ELIZABETH G. 14847 DRAFT HORSE LANE WELLINGTON FL 33414</p> <p>LICENSE NUMBER: PE72860 EXPIRATION DATE: FEBRUARY 28, 2025</p> <p>Always verify licenses online at MyFloridaLicense.com</p> <p>Do not alter this document in any form.</p> <p>This is your license. It is unlawful for anyone other than the licensee to use this document.</p>	 <p>STATE OF FLORIDA</p> <p>BOARD OF PROFESSIONAL ENGINEERS</p> <p>THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES</p> <p>NGUYEN, TUNG THANH 8422 PROSPECT LANE PARKLAND FL 33076</p> <p>LICENSE NUMBER: PE85095 EXPIRATION DATE: FEBRUARY 28, 2025</p> <p>Always verify licenses online at MyFloridaLicense.com</p> <p>Do not alter this document in any form.</p> <p>This is your license. It is unlawful for anyone other than the licensee to use this document.</p>
 <p>STATE OF FLORIDA</p> <p>BOARD OF PROFESSIONAL ENGINEERS</p> <p>THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES</p> <p>GARCIA, DANIEL I. 591 SW 51ST CT MIAMI FL 33134</p> <p>LICENSE NUMBER: PE62299 EXPIRATION DATE: FEBRUARY 28, 2025</p> <p>Always verify licenses online at MyFloridaLicense.com</p> <p>Do not alter this document in any form.</p> <p>This is your license. It is unlawful for anyone other than the licensee to use this document.</p>	 <p>STATE OF FLORIDA</p> <p>BOARD OF PROFESSIONAL ENGINEERS</p> <p>THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES</p> <p>CUSHING, ROBERT STANLEY 301 N. CATTLEMEN ROAD SUITE 302 SARASOTA FL 34232</p> <p>LICENSE NUMBER: PE57828 EXPIRATION DATE: FEBRUARY 28, 2025</p> <p>Always verify licenses online at MyFloridaLicense.com</p> <p>Do not alter this document in any form.</p> <p>This is your license. It is unlawful for anyone other than the licensee to use this document.</p>

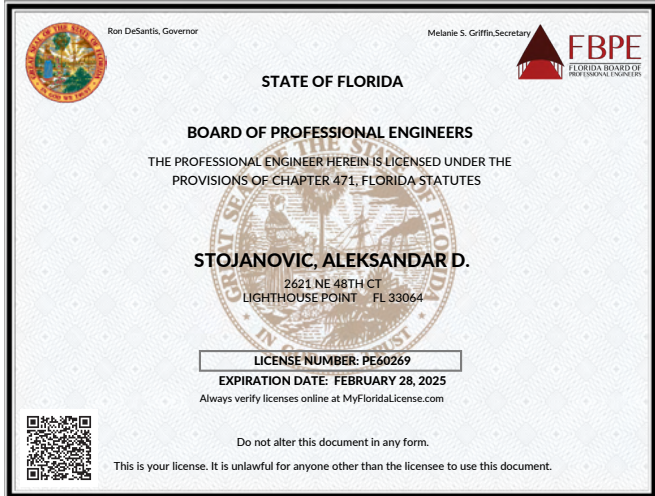




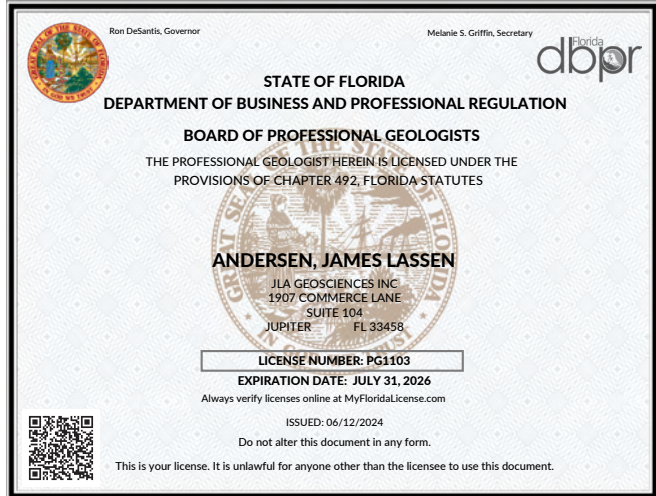
Terracon: Individual Professional Engineer License



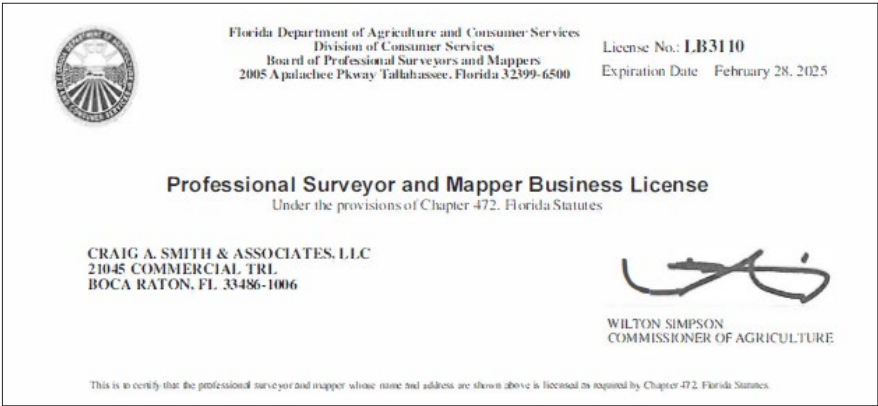
ADS: Individual Professional Engineer License



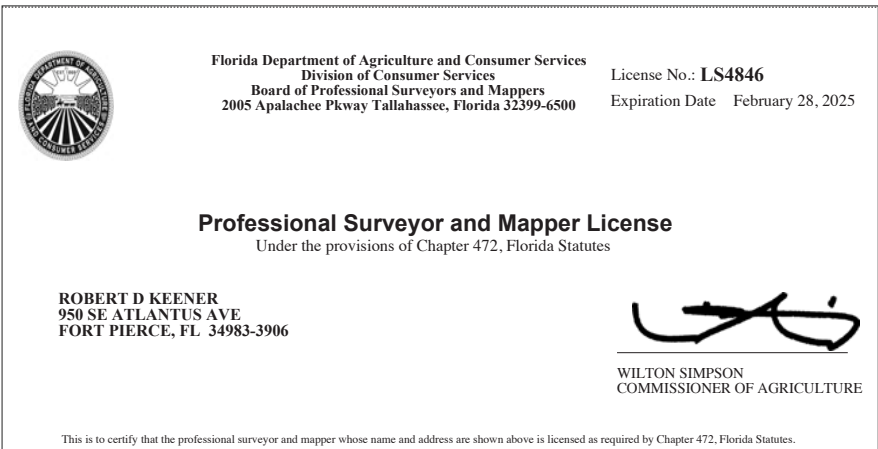
JLA: Individual Professional Geologist License



Craig A Smith & Associates: Business Surveyor and Mapper License



Craig A Smith & Associates: Individual Professional Surveyor License



Minimum Qualifications Documentation

D. Conflict of Interest

Sign here

D. Conflict of Interest

Carollo is familiar with applicable conflict of interest laws and requirements. Neither our firm nor any of its employees involved with this contract are aware of any conflict of interest that would preclude working on this project. Carollo, at all times, conducts its professional and contract business activities in a manner to prohibit conflict of interest on the part of the firm and its employees. We foresee no circumstances in which a conflict could arise.



CHAPTER

3

Minimum Qualifications Documentation

E. GSA Standard Form 330

SF330

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Continuing Engineering Consulting Services - Water Treatment Design Services

2. PUBLIC NOTICE DATE

October 19, 2024

3. SOLICITATION OR PROJECT NUMBER

RFQ No. 2025-007

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Elizabeth Fujikawa, PE, LEED AP, Vice President

5. NAME OF FIRM

Carollo Engineers, Inc.

6. TELEPHONE NUMBER

561-868-6400

7. FAX NUMBER

561-868-6401

8. E-MAIL ADDRESS

efujikawa@carollo.com

C. PROPOSED TEAM

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

(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUB-CONTRACTOR			
a.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	2056 Vista Parkway, Suite 150 West Palm Beach, Florida 33411	Prime
b.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	2728 North University Drive, Bldg. 2700 Coral Springs, Florida 33065	Prime
c.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	703 Waterford Way, Suite 560 Miami, Florida 33126	Prime
d.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	301 North Cattleman Road, Suite 302 Sarasota, Florida 34232	Prime
e.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	200 East Robinson Street, Suite 1400 Orlando, Florida 32801	Prime
f.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	101 East Kennedy Blvd, Suite 700 Tampa, Florida 33602	Prime
g.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	12592 West Explorer Drive, Suite 200 Boise, Idaho 83713	Prime
h.	X			Carollo Engineers, Inc. [X] CHECK IF BRANCH OFFICE	10900 Stonelake Blvd, Bldg. 2, Ste. 126 Austin, Texas 78759	Prime
i.			X	ADS Engineering, Inc. [] CHECK IF BRANCH OFFICE	4701 N Federal Hwy., Suite 390 Pompano Beach, Florida 33064	Electrical Engineering
j.			X	Craig A. Smith & Associates, LLC [] CHECK IF BRANCH OFFICE	1425 E. Newport Center Drive Deerfield Beach, Florida 33442	Surveying/SUE

C. PROPOSED TEAM (Continued)						
(Complete this section for the prime contractor and all key subcontractors.)						
(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUB-CONTRACTOR			
k.			X	JLA Geosciences, Inc. [] CHECK IF BRANCH OFFICE	1907 Commerce Lane, Suite 104 Jupiter, Florida 33458	Production Well Evaluation
l.			X	Terracon, Inc. [X] CHECK IF BRANCH OFFICE	1225 Omar Road West Palm Beach, Florida 33405	Geotechnical
m.				[] CHECK IF BRANCH OFFICE		
n.				[] CHECK IF BRANCH OFFICE		
o.				[] CHECK IF BRANCH OFFICE		
p.				[] CHECK IF BRANCH OFFICE		
q.				[] CHECK IF BRANCH OFFICE		
r.				[] CHECK IF BRANCH OFFICE		
s.				[] CHECK IF BRANCH OFFICE		
t.				[] CHECK IF BRANCH OFFICE		

PART I: SECTION D



CLIENT SERVICE MANAGER

Liz Fujikawa, PE, BCEE, LEED AP

PROJECT MANAGERS

Liz Fujikawa, PE, BCEE, LEED AP

Tung Nguyen, PE, PMP

Dan Garcia, PE, ENV SP, LEED AP BD+C, PTOE

TECHNICAL ADVISORY TEAM & QA/QC

Bob Cushing, PhD, PE, BCEE

Brandon Yallaly, PE

Vinnie Hart, PE, ENV SP, LEED AP

WATER TREATMENT, DISTRIBUTION AND OPERATIONAL EVALUATIONS TEAM

PFAS Compliance

Eva Steinle-Darling, PhD, PE*

Nanofiltration

Sandeep Sethi, PhD, PE

Chemical Feed

Tung Nguyen, PE

Lime Softening, Ion Exchange

Vinnie Hart, PE, ENV SP, LEED AP

Filtration

Chris Reinbold, PE

Water Mains

Scott Richards, PE

Disinfection/Chlorination

Erica Stone, PhD, PE

Planning, Modeling

Angelica Gregory, PhD, PE

Production Well Evaluation, Construction and Implementation

Jim Andersen, PG³

Operations

Leo Pou

SUPPORT SERVICES

Electrical

Alex Stojanovic, PE¹

SCADA/I&C/Process Control

Norm Anderson, PE

Keith Dinnen, PE

Structural

Joel Smason, PE

Mechanical

Chad Green, PE

Survey/SUE

Robert Keener, PSM²

James Driscoll¹

Geotechnical

Jaime Velez, PE⁴

Permitting

Angelica Gregory, PhD, PE

Construction Administration and Management

Doug Dumont, CCM

Grant Assistance

Emily Platt (Pre-Grant)

Lisa Arroyo, PE (Post-Grant)

Legend

1. ADS Engineering, Inc.
2. Craig A. Smith & Associates
3. JLA Geosciences
4. Terracon

Key Personnel

*Registered in a state other than Florida

PART I: SECTION E

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Liz Fujikawa, PE, LEED AP		Client Services Manager/Project Manager		a. TOTAL	b. WITH CURRENT FIRM
				40	13
15. FIRM NAME AND LOCATION (City and State)					
Carollo Engineers, Inc. - West Palm Beach, FL					
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)			
MSE Environmental Engineering / BS Chemistry		Professional Engineer, FL No. 72860, LEED Accredited Professional			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Water Works Association, International Ozone Association					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	General Engineering Consulting Services Contract City of Delray Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			Ongoing	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager, Carollo has completed a wide array of services for the City, including filter media replacement, SCADA upgrades for the WTP and collection system, softening optimization, construction management of lime softening clarifiers, electrical assessment of three pump stations, and the design of 4-log improvements.					
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	General Consulting Engineering Services City of Boynton Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			Ongoing	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager for services provided under this general engineering services contract. Tasks include consulting engineering services for the City's two water treatment plants (WTPs), the East WTP is a conventional lime softening plant with ion exchange for color and TOC removal and the West WTP is a nanofiltration plant. Projects have included filter, 4-log, structural improvements, and softening optimization at the East WTP, condition assessments, wellfield and transmission hydraulic analysis, GIS work plan, permitting, and electrical improvements.					
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Continuing Contract for Engineering Services City of Pompano Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			Ongoing	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager for services provided under a consulting services engineering contract for the City of Pompano Beach, completed projects have included studies and designs for their two WTPs, a lime softening and a nanofiltration.					
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Continuing Contract for Engineering Services Water Engineering Services Broward County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			Ongoing	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager for Carollo's two continuing engineering contracts with Broward County, one for water treatment plant (WTP) services and one for pumping stations and storage tanks. As part of these contracts, Carollo's task orders have included chemical systems improvements at the 1A and 2A WTPs, WTP high service pump station switchgear improvement, and 3A high service pump station 4-log permit modification.					
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Potable Water Storage Tanks, Pumping Systems, and Chemical Systems Broward County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2021	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager for the assessment, design and construction phase management of new ground storage tanks, new high service pump stations, and new sodium hypochlorite and ammonia feed and storage systems for disinfection. These improvements were implemented at four locations within the County.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
			a. TOTAL	b. WITH CURRENT FIRM
Tung Nguyen, PE, PMP		Project Manager/Chemical Feed	16	2
15. FIRM NAME AND LOCATION (City and State)				
Carollo Engineers, Inc. - Coral Springs FL				
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
BS Civil Engineering		Professional Engineer, FL No. 85095		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)				
Water Environment Federation, Project Management Professional				
19. RELEVANT PROJECTS				
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
	Phosphate/Ferric Storage Tank Replacement Design City of Delray Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
			2024	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project engineer for the replacement of a fluoride tank, a new phosphate tank, and the installation of chemical metering skids. FDEP permitting support is also included.				
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
	East Water Treatment Plant Structural, Filter, and 4 Log Inactivation Improvements, City of Boynton Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
			2024	2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project engineer for the structural repairs to clearwells, filters, and high service pump station. This project also includes clearwell central channel baffle installation and disinfection injection modifications to achieve 4-log inactivation credit. CFD modeling to confirm baffle configuration and identify dead spots in clearwells. Installation of gates/valves to allow insolation of east and west clearwells. Also includes filter rehab including media replacement, filter surface sweet replacement, underdrain repairs, and modulating actuators on effluent valves. The scope includes preliminary design, detailed design, permitting services, bidding services, and construction services.				
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
	Standby Power to Wells 4W, 5W, 7W, and 8W City of Boynton Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
			2024	2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project engineer for the bidding and permitting support, and construction support services for standby power to wells 4W, 5W, 7W, and 8W.				
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
	Reverse Osmosis and Membrane Piloting and Conceptual Design City of Hollywood, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
			2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[] Check if project performed with current firm	
Project manager/design engineer for the planning, procuring, installing, and operating the pilot plant for 8-months including 24/7 operations, daily sampling, instrument calibration, and data analysis on pilot performance. Following the pilot testing phase, Tung led the development of the basis of design report (BODR) that included the conceptual design, antiscalant optimization, membrane selection, cost estimating, and construction phasing for the system including SCADA and building upgrades.				
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
	4-Log Disinfection Condition Assessment and Design City of Hollywood, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
			2023	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[] Check if project performed with current firm	
Project manager/design engineer responsible to lead the condition assessment of the sodium hypochlorite system, design for converting to 4-log virus inactivation using free chlorine, bench-scale testing for disinfection by-product (DPB) formation, and final design for the upgrades to injection locations, ammonia system, chemical feed pumps, chemical storage, and the bulk transfer equipment. As part of this effort, he also coordinated with the Florida Department of Environmental Protection to obtain preliminary approval on the conceptual design.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE				
Dan Garcia, PE, ENV SP, LEED AP BD+C, PTOE		Project Manager		a. TOTAL	b. WITH CURRENT FIRM			
				27	<1			
15. FIRM NAME AND LOCATION (City and State)								
Carollo Engineers, Inc. - Miami, FL								
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
MBA International Finance and Global Business / MS/BS Civil Engineering			Professional Engineer, FL No. 62299					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
Envision Sustainability Professional, LEED Accredited Professional Building Design + Construction, Professional Traffic Operations Engineer								
19. RELEVANT PROJECTS								
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	4-Log Disinfection Condition Assessment and Design City of Hollywood, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm							
Project manager/design engineer responsible for coordinating with the Florida Department of Environmental Protection to obtain preliminary approval on a conceptual design. He also led design efforts to complete construction documents for bidding and coordinated bidding support services with the City.								
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	High Service Pump Station Rehabilitation City of Hollywood, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm							
Project manager/design engineer responsible for rehabilitating the aeration building pump station by installing a new high service pump to increase the reliability for the delivery of finished water to the water distribution system. He also served as permitting coordinator and led the multi-disciplinary team to deliver to client.								
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Water and Sewer Integrated Master Plan, Miami-Dade Water and Sewer Department, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm							
Project manager for the development of task orders, client negotiations, and coordination with asset management, risk modeling, hydraulic modeling, and other subject matter experts. This task evaluated WASD's wastewater treatment plant system to determine immediate and long-term needs for both renewal and replacement projects. The scope of services included projects related to regulatory, vulnerability/criticality, and capacity related drivers.								
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	East and West Steel Elevated Storage Tank Inspections City of Hollywood, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm							
Project manager/design engineer to coordinate inspections between the subcontractor and the City for the East steel elevated storage tank and the West steel elevated storage tank. Provided engineering services to complete an inspection of the structural condition of both tanks. Findings of the tank inspections were incorporated into the existing asset management condition assessment process and added to the scoring in the City's rehabilitation and replacement planning system database developed as part of the City's ongoing master planning efforts for the water treatment plant and water system.								
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Design-Build Palm and Hibiscus Islands Right-of-Way Infrastructure Improvements, City of Miami Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2018	2018				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [] Check if project performed with current firm							
Design project manager for improvements that included replacement of water main, lighting, utility undergrounding, landscaping, streetscape, pavement and marking. Responsibilities included coordination with the builder, design team, client, and permitting agencies.								

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE				
Bob Cushing, PhD, PE, BCEE		Technical Advisory Team & QA/QC		a. TOTAL	b. WITH CURRENT FIRM			
				40	25			
15. FIRM NAME AND LOCATION (City and State)								
Carollo Engineers, Inc. - Sarasota, FL								
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
MBA International Finance and Global Business / PhD Civil Engineering / MS Civil Engineering / BS Petroleum Engineering			Professional Engineer, FL No. 34232					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
American Academy of Environmental Engineers; American Water Works Association; Water Environment Federation								
19. RELEVANT PROJECTS								
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Ion Exchange (MIEX) Project City of Boynton Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2017	2017				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
	Technical advisor for this new organics removal MIEX system for Western Wellfield water with the use of excess treatment capacity for hardness removal at the EWTP. Water will be pumped to the East WTP where the new 16-mgd MIEX system will use a proprietary anion exchange resin to remove organics. This MIEX treated water will then be treated in the softening basins, as well as partially bypassed around the softeners to increase EWTP capacity.							
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Hialeah-Preston Water Treatment Plant Miami-Dade County Water and Sewer Department, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2011	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
	Technical advisor for design of the 225-mgd WTPs. Phase 1 was to identify and recommended process modifications and improvements to the conventional softening WTPs on the existing site or remotely address a reclassification of one of the water sources as Ground Water Under the Direct Influence of Surface Water. Final recommendation was to construct facilities, including a new on-site sodium hypochlorite generation facility consisting of 165-mgd NF membranes.							
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Babcock Ranch Community RO Water Treatment Plant MSKP Town and County Utility, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2023	2023				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
	Managed the fast-track design-build delivery of co-located WTP and WRF. Innovative features for this South Florida ground water plant included modular RO and ion exchange treatment systems that achieved flexible expanded production goals.							
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Rehabilitation and Expansion of the North Lee County RO WTP - PDB Lee County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	2024				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
	Oversaw the PDB delivery of this 15-mgd water treatment plant using innovative membrane technology to treat South Florida groundwater. Use of an innovative turbine assisted booster pump provides industry-leading electrical efficiency.							
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Northeast Regional Water Treatment Plant Redesign and Permitting, Phase 2 Collier County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2025	2025				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
	Managed the design of a new greenfield 10-mgd brackish RO treatment plant (expandable to 40-mgd). Key features of the RO design include a state-of-the-art hybrid membrane and ion exchange system to treat South Florida groundwater.							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE					
				a. TOTAL	b. WITH CURRENT FIRM				
Brandon Yallaly, PE		Technical Advisory Team & QA/QC		27	19				
15. FIRM NAME AND LOCATION (City and State)									
Carollo Engineers, Inc. - Boise, ID									
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)							
MS Civil and Environmental Engineering / BS Civil Engineering		Professional Engineer, FL No. 60307							
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)									
American Water Works Association; American Membrane Technology Association									
19. RELEVANT PROJECTS									
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED						
	Southeast Water Production Facility and Pipeline, Phase 2 Polk Regional Water Cooperative, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
			2026	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm						
Technical advisor and QA/QC for the water quality analysis of the Lower Floridan aquifer, identification of quantity and quality of water available from the wellfields; evaluation of treatment options, bench-scale testing, and recommendation for the most viable process to treat the water; post treatment requirements; hydraulic modeling, and water quality modeling; determination of the most viable option for disposing waste residuals; development of conceptual and preliminary facility designs for the recommended treatment process; and costs estimates for the treatment facilities. Phase 2 includes the final design of the facility.									
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED						
	Norwood-Oeffler Water Treatment Plant City of North Miami Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
			2022	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm						
Technical advisor and QA/QC for a brief process evaluation to assist with the determination of how to maintain the current WTP treatment capacity.									
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED						
	Hialeah-Preston Water Treatment Plant Miami-Dade County Water and Sewer Department, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
			2011	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm						
Technical advisor for design of the 225-mgd WTPs. Phase 1 was to identify and recommended process modifications and improvements to the conventional softening WTPs on the existing site or remotely address a reclassification of one of the water sources as Ground Water Under the Direct Influence of Surface Water. Final recommendation was to construct facilities, including a new on-site sodium hypochlorite generation facility consisting of 165-mgd NF membranes.									
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED						
	Venice Gardens Water Treatment Facility Sarasota County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
			2010	2010					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm						
Lead process mechanical engineer for the preliminary and final expansion design of the upgrades and expansion of five existing membrane trains, including conversion from single stage to two stage arrays and the utilization of a hybrid membrane array for flux balancing. New post treatment facilities include a new degasifier and rehabilitated chemical scrubbers for hydrogen sulfide removal, a carbon dioxide solution feed system for pre-degasifier pH adjustment and alkalinity recovery, a new concentrate pump station for off site concentrate disposal, new and upgraded caustic soda, aqua ammonia, sodium hypochlorite, and corrosion inhibitor systems, and an updated control system.									
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED						
	High Pressure Reverse Osmosis Demonstration Pilot Study Collier County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
			2007	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm						
Project engineer for the demonstration study which focused on treating high salinity brackish groundwater wells using seawater technology, specifically the processes employed by the Affordable Desalination Collaboration.									

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
				a. TOTAL	b. WITH CURRENT FIRM
Vinnie Hart, PE, LEED AP, ENV SP		Technical Advisory Team & QA/QC/Lime Softening/IX		32	21
15. FIRM NAME AND LOCATION (City and State)					
Carollo Engineers, Inc. - Tampa, FL					
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)			
MS/BS Environmental Engineering		Professional Engineer, FL No. 96251			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Water Works Association; Water Environment Federation; American Society of Civil Engineers; National Association of Corrosion Engineers					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	David L Tippin WTF (DLTWTF) Master Plan Improvements PDB City of Tampa, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			Ongoing	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Design manager for the City of Tampa David L Tippin WTF (DLTWTF) Progressive Design Build. Project includes the assessment of needs, selection of alternatives, development of construction sequencing and project phasing to maintain plant operations and reduce construction cost, final design, permitting and development of a GMP.					
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	David L Tippin WTF (DLTWTF) Design-Build Chemical System Improvements City of Tampa, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2023	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project manager for the design-build team for a low strength on site sodium hypochlorite generation system for the 140-mgd DLTWTP. The project is a retrofit of the existing chlorine rail system. The project included the design and construction of six 2,400 lbs./day generators making it one of the biggest on site sodium hypochlorite systems in the country. The project also includes chemical trench rehabilitation/ construction and rehabilitation of the existing ozone contact chamber and the design and construction of an ammonium sulfate system to replace the existing anhydrous ammonia system.					
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Ion Exchange System Design and Construction Management City of Boynton Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2017	2017	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Pretreatment process lead. Carollo provided design and construction phase services for the \$11-million MIEX® facility as well as ancillary improvements at the West WTP.					
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Dean Water Treatment Plant Softener Rehabilitation Florida Keys Aqueduct Authority, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2022	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Project engineer for the rehabilitation and upgrade of an up-flow clarifier. The identified upgrade was accomplished by the treatment system original equipment manufacturer (OEM) through a direct contract with the FKAA. Carollo provided support to FKAA with the specifying of the upgrade improvements and the review of the softener rehabilitation construction shop drawings submitted by the OEM.					
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Sawgrass WTP Upgrade and Expansion City of Sunrise, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2019	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm		
Process engineer for the membrane softening facility utilizing nanofiltration (NF) as the primary process to treat water from the Biscayne aquifer. The City sought to expand capacity, improve overall facility water recovery and water quality, and obtain an analysis of options for new brackish water treatment. Carollo provided study and design for replacement of NF membranes, permitting for the 6-mgd expansion, and pilot testing of oxidation, filtration, and ion exchange (IX) technologies to treat surficial aquifer water for iron and organics control.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE				
Eva Steinle-Darling, PhD, PE		PFAS Compliance		a. TOTAL	b. WITH CURRENT FIRM			
				21	12			
15. FIRM NAME AND LOCATION (City and State)								
Carollo Engineers, Inc. - Austin, TX								
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
PhD/MS Civil and Environmental Engineering/BS Chemical Engineering			Professional Engineer, TX No. 113317					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
American Water Works Association; WaterReuse Association; Water Research Foundation; Water Environment Federation								
19. RELEVANT PROJECTS								
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Project 4913: Investigation of Treatment Alternatives for Short-Chain Poly and Perfluoroalkyl Substances (PFAS), The Water Research Foundation		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			Ongoing	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Project advisory committee member for this study that involves development of a guidance manual to aid water treatment professionals in selecting the most cost effective and sustainable treatment options for short-chain poly- and perfluoroalkyl substance (PFAS) removal.								
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Investigation of Alternative Management Strategies to Prevent PFAS from Entering Drinking Water Supplies and Wastewater, The Water Research Foundation		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2023	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Principal Investigator. Leading a team of PFAS leaders in consulting, academia, and utility researchers to develop comprehensive guidance on PFAS source evaluating and mitigation strategies.								
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Direct Potable Reuse Demonstration Pilot, pureALTA City of Altamonte Springs, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2019	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Technical advisor for this project that encompassed a year-long demonstration of ozone/Biofiltration based treatment for direct potable reuse. Studied and evaluated removal of PFAS through ozone / carbon-based treatment as part of the project.								
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Tampa Bay Water Regional Water Quality Study Tampa Bay Water, Clearwater, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2022	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Lead for CEC and PFAS study for the entire Tampa Bay Water water supply system. The project consisted in the study and development of a plan to treat TOC and other CECs, such as PFAS.								
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	PFAS Treatment Systems Planning Study Orange County Water District, CA		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2020	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Technical advisor for a study conducted for 11 of the District's groundwater producers. Eva provided her expertise to assist in assessing of each of OCWD's 60 wells for 11 of their groundwater producers and developing planning efforts to select the best treatment alternative for each producer.								

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
			a. TOTAL	b. WITH CURRENT FIRM
Sandeep Sethi, PhD, PE		Nanofiltration	31	25
15. FIRM NAME AND LOCATION (City and State)				
Carollo Engineers, Inc. - Tampa, FL				
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
PhD/MS Environmental Science and Engineering/BS Civil Engineering		Professional Engineer, FL No. 72562		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)				
American Water Works Association; WaterReuse Association, American Membrane Technology Association; Southeast Desalting Association; Reviewer for Journal of Environmental Engineering, ASCE, Journal AWWA, Journal Environmental Engineering Science				
19. RELEVANT PROJECTS				
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	Basis of Design and Preliminary Design for Norwood-Oeffler Water Treatment Plant, City of North Miami Beach, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2024	2024	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project engineer for the development of the treatment alternatives (including NF expansion, pellet softening, anion exchange), basis of design and preliminary design report. The water treatment plant rehabilitation also includes transfer and high service pumping, ground storage water, auxiliary power generator, and a warehouse.				
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	6.25-mgd Water Treatment Plant-2 Reverse Osmosis (RO) System Improvements Project, City of Clearwater, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2023	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project manager for the improvements to WTP-2 to allow to process and produce more water, addressing both water quality and water quantity. Problematic water quality issues include bromate, increasing raw water TDS, and impacts from RO concentrate. Phase A consists of desktop evaluations, full-scale testing of the ozone system, and planned pilot-scale and full-scale testing for the RO system. Future project phases will implement the design and construction of the selected improvements.				
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	30-mgd Reverse Osmosis (RO) Southeast and 15-mgd RO West Polk Water Production Facilities, Polk Regional Water Cooperative, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2028	2028	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project manager for the conceptual and preliminary design, technology selection two large, complex RO facilities with a combined estimated construction cost of approximately \$500 million.				
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	Tampa Bay Water Regional Water Quality Study Tampa Bay Water, Clearwater, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2022	N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project manager for this study to define optimized solutions and an implementation plan to help Tampa Bay Water and its Member Governments achieve enhanced water quality. The reduction of total organic carbon (TOC) is a primary objective, in order to facilitate lower disinfectant demand and increased stability, lower disinfection by-products, increased water conservation via reduced flushing volumes, lower nitrification potential, and better management of calcium hardness variability.				
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
	Lake Manatee Water Treatment Plant UF Retrofit of Media Filters, Manatee County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2022	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm	
Project manager during construction, this project represents the largest MF/UF retrofit in the US and Florida's largest low pressure membrane facility. Key tasks included evaluation of existing water quality and optimization of existing pretreatment processes for compatibility with UF; pre-qualification of membrane system suppliers and membrane procurement documents; pilot testing; membrane supplier evaluation and selection; conceptual, preliminary, and final designs including cost estimates; permitting; construction, start-up, and warranty phase.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE				
Scott Richards, PE		Water Mains		a. TOTAL	b. WITH CURRENT FIRM			
				22	7			
15. FIRM NAME AND LOCATION (City and State)								
Carollo Engineers, Inc. - Orlando, FL								
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
BS / Mechanical Engineering			Professional Engineer, FL No. 71505					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
FS AWWA Region III, Volunteer of the Year, 2011/Public Affairs Council Chair's Award for Distinguished Service, 2018; Trustee Award 2022								
19. RELEVANT PROJECTS								
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Lake Highland Water Supply Wells and Piping Design Orlando Utilities Commission, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2026	2026				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Principal-in-charge for design services for the rehabilitation of the water supply wells, replacement of raw water mains, and replacement of select portions of finished water mains in the surrounding area. The services included coordination with other projects in the area as well as permitting and coordination with the City of Orlando and the Florida Department of Transportation, and construction phase services.								
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Main Bridge Water Main Condition Assessment City of Longboat Key, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2018	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Project manager for the inspection and condition assessment of the Town's water supply main, which is suspended on the main bridge. The crossing consists of approximately 2,000 linear feet of 16-inch DIP pipeline. The assessment included field investigation of the pipeline with ultra-sonic thickness measurement equipment, documentation of the condition, and recommendations for improvements including options for recoating the pipeline to extend its life. Responsibilities included project management, investigation, and recommendations.								
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Force Main Replacement from Lift Station #57 to South Bermuda Water Reclamation Facility (WRF), Toho Water Authority, Kissimmee, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2021	2021				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Project manager for the design and construction of 3,100-feet of new 30-inch force main and the rehabilitation and replacement of the existing parallel 30-inch force main.								
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	North Williamson Blvd Force Main Routing and Design City of Daytona Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2023	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Project manager for this force main routing and design project. The City recently developed a wastewater master plan which identified collection system improvements to address hydraulic limitations of the existing system which is being impacted by rapid development in the Westside Regional service area. One area of extreme growth is along the northwest and north section of LPGA Boulevard, where planned development flow projections have exceeded what was estimated in the earlier master planning efforts. Carollo conducted hydraulic modeling evaluations to confirm necessary hydraulic improvements to the collection system in this area.								
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Clyde Morris Utility Relocates City of Daytona Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	2024				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Principal-in-charge for the design of non-reimbursable infrastructure. The focus of this scope is the adjustment of the 20-inch wastewater force main and 16-inch water main impacted by the pedestrian tunnel project. This scope also included an allowance for other non-reimbursable adjustments that were identified during design.								

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE				
Leo Pou		Operations		a. TOTAL	b. WITH CURRENT FIRM			
				40	<1			
15. FIRM NAME AND LOCATION (City and State)								
Carollo Engineers, Inc. - Miami, FL								
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)					
AA Environmental Engineering			Class A Wastewater, Florida No. 0009424					
MS Civil and Environmental Engineering								
HAZMAT Technician Certified; Confined Space Certified								
19. RELEVANT PROJECTS								
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	NEWPP Thickening and Dewatering Centrifuge Systems City of Houston, TX		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Startup, commissioning, and operations support for the NEWPP thickening and dewatering centrifuge systems. Collaborated with the contractors to optimize centrifuges and polymer dosing. Assisted with the development of SOPs and reviewed O&M manuals submittals for the client.								
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Baxter Diagnostics Treatment Plant Operations Miami, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			1994	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Operations treatment plant specialist to assist with operations and maintenance of three reverse osmosis (RO) plants, which produced re-agent drugs used in diagnostics machines; and commissioned new treatment plant and wrote standard operating procedures (SOP). Also, created/performed maintenance schedules for the three treatment plants and trained new personnel.								
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Wastewater Division for the Miami-Dade Water & Sewer Department (WASD) Miami, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Assistant division director for the oversight of three large scale/regional high-rate, high purity oxygen activated sludge plants. Worked with utility-wide capital improvements, federally-mandated Consent Decree, and state-mandated Ocean Outfall legislation projects, which include treatment plant process improvements at the three facilities with capacities from 112- to 130-mgd and upgraded the Central District Wastewater Treatment Plant (WWTP) (143-mgd ADF) and North District WWTP (120-mgd ADF) from secondary treatment to tertiary treatment/ high level disinfection. Involved in projects including planning; engineering design review; process upgrades; start-up/commissioning; training for new systems; and employee training, orientation, and mentoring.								
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	AWPF Wastewater Treatment Plant (WWTP) City of Valencia, CA		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2024	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Startup and commissioning support for troubleshooting and optimizing the membrane and reverse osmosis systems. Collaborated with staff during performance testing and developed operating parameters.								
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED					
	Hyperion Wastewater Treatment Plant (WWTP) City of Los Angeles, CA		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
			2025	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		[X] Check if project performed with current firm					
Advisory panelist to provide support to improve process control and operations of the facility. Created training tools to develop staff. Troubleshoot and optimized solids handling. Improved resiliency by developing a proactive tank cleaning and maintenance program. Mentored and coached staff.								

PART I: SECTION F

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

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

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (City and State)

Continuing Engineering Consulting Services Contract
Delray Beach, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (if applicable)

Ongoing

Miscellaneous

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Delray Beach

b. POINT OF CONTACT NAME

Juan Guevarez, Assistant Utilities Director

c. POINT OF CONTACT TELEPHONE NUMBER

561-243-7305 | guevarezj@mydelraybeach.com

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

**RELEVANCE / HIGHLIGHTS**

- Prior work under the same contract for the City of Delray Beach
- Water treatment plant and infrastructure design and construction services
- Electrical and SCADA system design and construction

Project Description: Carollo was selected in 2017 to provide planning, design, and construction-phase services under the continuing engineering services contract for water and wastewater projects, including the following:

- **Phosphate/Ferric Storage Tank Replacement.** Carollo has been providing engineering services for the replacement of a fluoride tank, a new phosphate tank, and the installation of chemical metering skids. FDEP permitting support is also included.
- **North and South High-Service Pump Stations VFD and Electrical Improvements Study.** Carollo provided engineering services to develop a basis of design report for the electrical/VFD upgrades at the City's high service pump stations.
- **Environmental, Health, and Safety Assessment.** Carollo conducted a risk assessment of the Swinton Avenue Complex and miscellaneous tanks/booster stations (as specified in Task 2) to comply with federal and state regulations.
- **Water Treatment Plant Operational Assistance and 4-Log Baffle System.** This project was to improve stability of performance of the lime softening plant, and to develop procurement documents for the clearwell baffling system for 4-log compliance.
- **HSPS Electrical Upgrades Grant Assistance.** This project involves the development of a grant application for high-service pump station (HSPS) electrical upgrades.
- **Management Consulting Services to Support the Capital Improvement Program.** Carollo provided consulting services associated with supporting the Department of Public Works in the assessment, prioritization, and management of projects in the City's Capital Improvement Program (CIP); including support during the development of the CITY's Fiscal Year 2019-20 Annual Budget.
- **Filter Improvements Design and Construction Management.** Carollo provided the fast track development of specifications for the replacement of filter media and provided engineering services during construction.
- **Filter Improvements Design and Construction Management.** Construction administration services associated with the City of Delray Beach Clarifier and Filter Valve Improvements Design and Construction Management Water Treatment Plant (WTP) rehabilitation of Clarifier No. 1. The clarifier is constructed of cast-in-place concrete, with steel internal components for the collection and effluent troughs, which require periodic maintenance. The replacement of pneumatically operated fill and drain valves at sedimentation Filter Units No. 1, 4, 5, and 6, and a new 8,500-gallon sodium hypochlorite (bleach) storage tank.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Carollo Engineers, Inc.	West Palm Beach, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div>2</div>					
21. TITLE AND LOCATION <i>(City and State)</i> Continuing Contract for Engineering Services Water Engineering Services, Pumping Stations and Storage Tanks, Broward County, FL		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td>Ongoing</td> <td>Miscellaneous</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	Ongoing	Miscellaneous
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>						
Ongoing	Miscellaneous						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Mike Saltzman, PE, Construction Project Manager Supervisor	c. POINT OF CONTACT TELEPHONE NUMBER 954-831-0736 Isaltzman@broward.org					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>							



RELEVANCE / HIGHLIGHTS

- Design and construction services of Florida water treatment facilities and infrastructure.
- Advanced treatment technologies.
- Energy optimization.
- Creative constructability and layout features.

Project Description: Carollo has two continuing services contracts with Broward County. One contract is to provide engineering for the County's pump stations and storage tanks. The other contract is to provide engineering for the County's water treatment plants. Carollo's projects include:

- 2A WTP High Service Pump Station Switchgear Improvements.** Carollo has been providing engineering services during construction for the upgrade of the high service pump station electrical switchgear.
- 1B2 Tank Demolition.** Carollo provided engineering services during construction for the demolition of the elevated tank in the 1B2 service area. The demolition was complicated because the tank contained lead based paint and there was a risk of exposure due to an adjacent school. Constraints were applied to the contractor to avoid work during high winds and provide protective containment. In addition, communication with the school staff was essential.
- Chemical Systems Improvements at the 1A and 2A WTPs.** The scope of this project is to replace the existing aging lime and polymer feed systems. Carollo was tasked with design, providing permitting assistance and assisting the County in providing budgetary costs for their CIP program. The lime and polymer feed systems were to have a similar design and capacity to the existing equipment, with related modifications as determined through the County's preference or as determined by the design process.
- 3A High Service Pump Station 4-log permit Modification.** The District 3A pump station obtains water from the City of Hollywood (City). If the City lost 4-log compliance, the County was required to issue a boil water notice—a severe hardship because the 3A pump station supplies water to the Fort Lauderdale airport. This project provided regulatory negotiations assistance to allow the County to receive approval to avoid a boil water notice following a City loss of 4-log compliance, provided that the County's 4-log system was in operation.
- New 5-MG Ground Storage Facility.** (District 2A). Work included design and construction management of a new ground storage tank. The work was complicated by the staging requirements needed to keep the 2A facility in service.
- New 1.5-MG Ground Storage Facility, High Service Pump Station, and Chemical Facility.** (District 1B1). Work included new variable speed driven split case pumps in conjunction with the appropriate control logic to maintain a stable discharge pressure. New chemical feed systems for sodium hypochlorite and liquid ammonium sulfate and a new engine generator. Also, required regulatory permitting was provided.

Carollo is also responsible for construction management of these projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
a.	<table border="1"> <tr> <td>(1) FIRM NAME Carollo Engineers, Inc.</td><td>(2) FIRM LOCATION (City and State) West Palm Beach, FL</td><td>(3) ROLE Prime</td></tr> </table>	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL	(3) ROLE Prime	
(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, 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 one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION (City and State)

General Consulting Engineering Services
Boynton Beach, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (if applicable)

Miscellaneous

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Boynton Beach

b. POINT OF CONTACT NAME

Poonam Kalkat, Utility Director

c. POINT OF CONTACT TELEPHONE NUMBER

561-317-6085 | kalkatp@bbfl.us

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

**RELEVANCE / HIGHLIGHTS**

- Advanced treatment technologies.
- Emerging contaminant treatment.
- Funding.
- Creative constructability and layout features.

Project Description: Since 2018, Carollo has provided services for the City of Boynton Beach water treatment plants (WTPs) under a general consulting engineering services contract. The City has two WTPs, the East WTP is a conventional lime softening plant with ion exchange for color and TOC removal and the West WTP is a nanofiltration plant. Projects have included:

- **East WTP Filter, 4-log and Structural Improvements.** Design of improvements to achieve 4-log disinfection credit, replace aged filter media and convert to effluent flow control, and improvements for structural wall and floor deterioration.
- **Optimization of Softening at East WTP.** Carollo conducted jar testing and evaluated the softening process to optimize chemical usage and sludge production.
- **Hypoluxo Permit Assistance.** Carollo provided assistance to the City with health department permit approval for supplying water to the City of Hypoluxo with the City of Boynton Beach's water.
- **Wellfield and Transmission Line Hydraulic Analysis.** Analyzed yield of wellfield and transmission of raw water from Western Wellfield to East WTP.
- **Standby Power Wells 4, 5, 7, and 8.** Carollo provided a design to implement standby power to four City wells that were in critical need of backup power and converted the power supply from 4160V to 480v.
- **WTP Condition Assessment for Asset Management.** This work includes conducting a condition assessment of the City's treatment plants, distribution system, collection system (including master lift stations), and reuse system. In addition, Mintek, an asset management program will be used for the City's long-term development of capital costs.
- **West WTP Centralized A/C Plant Assessment.** The City's West WTP was built in the early 90s and has had ongoing issues with the HVAC systems on the second floor of the membrane building since that time. The second floor houses both offices and the main laboratory. Carollo provided analysis of a new centralized chilled water system at the West WTP as well as other existing A/C systems throughout the plant with a centralized A/C chiller system.
- **GIS Work Plan.** Carollo provided GIS development and implementation in connection with the utility infrastructure management, including assisting with the updating of the base map with hydraulic models.
- **Water Distribution and Wastewater Collection System Modeling.** Carollo developed models for the water and wastewater collection systems that have been used by the City to evaluate master planning needs.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Carollo Engineers, Inc.	West Palm Beach, FL	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 one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Continuing Contract for Engineering Services Pompano Beach, FL		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		Ongoing	Miscellaneous
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Pompano Beach	Phil Hyer, Superintendent	954-545-7030 phil.hyer@copbfl.com	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			

**RELEVANCE / HIGHLIGHTS**

- Design and construction services of Florida water treatment facilities and infrastructure.
- Advanced treatment technologies.
- Emerging contaminant treatment.
- Energy Optimization.
- Permitting.

Project Description: Carollo, under a Consulting Services Engineering Contract for the City of Pompano Beach since 2021, has completed studies and designs for their two WTPs, treating with lime softening and nanofiltration. These include the following:

- **Electrical Master Plan for Water Treatment Plants.** Developed an electrical master plan for the lime softening and nanofiltration WTPs, followed by implementation of the improvements for the replacement and upgrade of power distribution system with state-of-the-art equipment to increase the reliability of the electrical system for the WTP and compliance with current building safety codes.
- **Long Range Lime Softening versus Nanofiltration WTP Evaluation.** Evaluated the advantages and disadvantages of the expansion of the nanofiltration WTP versus an upgrade of the lime softening WTP. Work included condition assessments, determination of operational costs, and determination of regulatory compliance requirements.
- **Nanofiltration Concentrate Disposal Alternatives Study and Design.** Carollo evaluated alternatives for disposal of membrane concentrate during deep injection well maintenance or emergency outages and permitting and design of the preferred alternative. Alternatives included discharge to the City's reclaim WWTP and discharge to the County's WWTP. Investigations included consideration of impact of chlorides on the lettuce crops and regulatory compliance.
- **WTP Transfer Pump Station Improvements.** This project provided for redundancy and reliability, specifically the transfer of treated water into the clearwell, including assessment of remedies to an apparent hydraulic bottleneck into the transfer station, selection of a motor and the Installation of two vertical turbine pumps owned by the City, upgrade of electrical equipment for the transfer station, and design of ancillary improvements for HVAC, access, lighting and wall insulation in the transfer station.
- **Water Supply Facilities Work Plan.** Carollo assisted the City in updating the 10-year Water Supply Facilities Work Plan and preparing a letter to SFWMD describing how the City intends to address the projects outlined in the 2018 LEC Plan Update and developed a concurrency water and wastewater design table to be used to determine the necessary water and sewer service for new customers. Carollo also worked with the City to develop a water protection standard for fire flow in the City's service area.
- **Hurricane Hardening of HSP 5-6 Building.** Provided engineering design and services during construction for the hurricane hardening of a high service pump station.
- **Reuse Treatment Plant Permit Renewal.** Prepared application materials necessary for the renewal of the existing operating permit for the Reuse Treatment Facility, which is permitted to treat 7.5 million gallons per day (mgd) of reuse domestic wastewater.
- **Consumptive Use Permit Projections for C-51.** Expanded the demand projections to cover through year 2065, using a methodology that is acceptable to the SFWMD. This information was utilized for the modification of the City's Consumptive Use Permit to include the C-51 allotment.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL
		(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div style="font-size: 24pt; color: #0070C0; text-align: center;">5</div>	
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED	
Professional Engineering/Architectural Services Pembroke Pines, FL		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) Miscellaneous
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Pembroke Pines	George Wrves, Assistant Director - Utilities	954-518-9045 gwrves@ppines.com	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			



RELEVANCE / HIGHLIGHTS

- Water treatment system design and construction
- Advanced treatment technologies.
- Emerging contaminant treatment.
- Permitting.

Project Description: Carollo completed studies and designs for the City of Pembroke Beach, under an engineering contract. These include:

- **Pembroke Pines WTP Evaluation.** Carollo performed an evaluation of Pembroke Pines Water Treatment Plant. Services provided include water treatment and design, supply/conveyance infrastructure.
- **Tonka Ion Exchange Instrumentation Upgrade Design and Construction Support Services.** The City purchased eight sets of instruments, also known as "Nano Stations," with the objective to improve the monitoring of pH, total organic carbon, conductivity and color at the output of the existing eight tonka ion exchange (tank) filters and verify water quality. Carollo provided engineering design services for construction documents related to installation, testing and commissioning of the purchased eight Nano Stations, plus basic engineering support services during construction.
- **WTP Lime Feed System Replacement Engineering and Design Services.** Carollo provided engineering services for replacement of the three existing lime feed systems at the City's water treatment plant with a lime feed system that provides flexibility and full redundancy to the WTP operations. Carollo reviewed and compared lime slaker technologies that could potentially be utilized at the WTP. The results of the evaluation were incorporated in a technical memorandum along with a summary of the design. The City accepted the preliminary and Carollo moved on to provide final design and construction documents. Carollo also assisted the City with the bidding process including review and response to RFI's and preparation of addenda.
- **Water System Design Evaluation.** Conducted performance and feasibility evaluations to identify improvements to the City's water system. These areas included evaluations for the plant filter performance, liquid ammonia conversion, ion exchange (IX) system performance, and Fletcher Park monitoring well.
- **PFAS Treatment Feasibility Evaluation.** Carollo is conducting PFAS treatability evaluation for Pembroke Pines to help the City meet National Primary Drinking Water Regulation (NPDWR) compliance requirements for PFAS. The team's mission is to perform a desktop evaluation, bench-scale rapid small-scale column tests (RSSCTs), conceptual site layouts, and life-cycle cost estimations to identify the most cost-effective PFAS treatment approach for Pembroke Pines's conventional lime softening facility.
- **Well 6 Replacement.** This project is to upgrade the existing capacity of the water supply Well 6 as part of documented efforts to shift raw water pumpage to the East Wellfield. Even though an increase to the capacity of Well 6 may result from this evaluation, the raw water withdrawal capacity permitted by the SFWMD for the East Wellfield will remain unchanged. This project provides for the preparation of a preliminary design report, preliminary design, final design, a cost estimate for the well replacement, bidding services, and construction engineering and inspection.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL
		(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div>6</div>					
21. TITLE AND LOCATION <i>(City and State)</i> Professional Engineering and Construction Services Key West, FL		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td>Ongoing</td> <td>Miscellaneous</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	Ongoing	Miscellaneous
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>						
Ongoing	Miscellaneous						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER					
Florida Keys Aqueduct Authority	David Hackworth, Capital Project Manager	305-295-2152 dhackworth@fkaa.com					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>							



RELEVANCE / HIGHLIGHTS

- Water treatment system design and construction
- Advanced treatment technologies.
- Emerging contaminant treatment.
- Environmentally sensitive area.

Project Description: Carollo provides ongoing professional engineering and construction phase services to the Florida Keys Aqueduct Authority for the water and wastewater treatment and collection/distribution systems under various assignments. Projects have included:

- Professional Services for PFAS Treatment.** The Florida Keys and Aqueduct Authority recently selected Carollo as their design consultant for the PFAS water treatment and removal at the Authority's J. Robert Dean WTP in Florida City.
- Grassy Key Transmission Main Replacement.** This project consisted of the study phase, design, and construction of approximately 2-mile long stretch of a 30-inch C200 spiral weld steel potable water transmission main in Grassy Key.
- Trumbo Point Pump Station and Tank Replacement.** The existing vertical turbine pump station was demolished and replaced with an "EFI" vertical turbine standard-type pumping system similar to that existing at multiple sites throughout the FCAA system. This pumping system, including suction and discharge piping, electrical components, auxiliary power generator receptacle, and control system elements, was incorporated into a prefabricated structure designed to meet local hurricane wind requirements.
- Stock Island Distribution Pump Station.** Carollo provided services to this pump station that included three 100 HP pumps, piping connections, sodium hypochlorite storage and metering pumps, electrical components, and control system elements. Additional project elements included a free-standing auxiliary 400-kW power generator, fuel storage tank, and an operations facility. The new pumping station, sized based on hydraulic modeling of the existing system, will utilize electric pumps with full diesel engine generator backup power.
- Stock Island Desalination Water Treatment Plant.** The design included new shallow seawater production wells, cartridge filtration, four 1-mgd seawater RO skids, followed by degasification and transfer pumping into an existing on-site potable water storage tank. Chemical feed systems for pretreatment, posttreatment, and 4-log disinfection.
- Diesel Pump Upgrades at the J.Robert Dean Water Treatment Plant.** The pump station consisted of four aging diesel engine drive pumps. This project included improvements to increase reliability of these high pressure transmission pumping units during power outages by updating the equipment and increased emergency pumping capacity by adding a standby generator to power an existing electric pump.
- Evaluation of PFAS Treatment Alternatives.** Carollo was engaged to initiate the first phase of this PFAS project and evaluated alternatives to achieve compliance utilizing one or more of the three noted treatment technologies in combination with the existing facilities at the WTP.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Carollo Engineers, Inc.	West Palm Beach, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div>7</div>					
21. TITLE AND LOCATION <i>(City and State)</i> Utility Professional Services Library Collier County, FL		22. YEAR COMPLETED <table border="1"> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION <i>(if applicable)</i></th> </tr> <tr> <td>Ongoing</td> <td>Miscellaneous</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	Ongoing	Miscellaneous
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>						
Ongoing	Miscellaneous						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Collier County		b. POINT OF CONTACT NAME Ben Bullert, PE, Principal Project Manager					
		c. POINT OF CONTACT TELEPHONE NUMBER 239-252-2583 benjamin.bullert@colliercountyfl.gov					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>							



- RELEVANCE / HIGHLIGHTS**
- Water Treatment.
 - Hydraulic Modeling.
 - CIP Development.
 - Electrical/I&C/SCADA.
 - Master Planning.

Project Description: Carollo has been under the engineering library contracts for Collier County Utilities since 2003, Carollo has completed numerous studies and designs. Representative examples ongoing or completed include:

- Irrigation Quality (IQ) Study.** Carollo performed program management for the County's IQ Water Program Technical Review and Assistance Project. Responsibilities included program guidance and risk-based decision analyses of potential end-states for the Livingston Road Aquifer Storage and Recovery (ASR) Project.
- Real Time Modeling Program.** Carollo developed a Real Time Modeling (RTM) program, which included a review and gap analysis of the existing SCADA capabilities and hydraulic models, development of workflow schematics, brainstorming data management and sharing methods, and development of methods to integrate those recommendations into County's RTM program. This work was compiled into a technical memorandum detailing everything necessary to implement a successful RTM program for the potable, wastewater, and IQ systems. A pilot program was completed for the southern portion of the County's IQ system, which consisted of converting the IQ model from Bentley WaterGEMS to Innovyze InfoWater software and utilized the Innovyze SCADAWatch software.
- North County Regional WTP Control and Information SCADA System Upgrade Design-Build.** Carollo was selected to perform a design-build control and information system replacement for Collier County's 20-mgd Northeast WTP. The existing Siemens 555 and 315 PLCs had become unreliable due to equipment age and the Profibus network demonstrated serious performance problems.
- Livingston Road Irrigation Quality Water Aquifer Storage Recovery Study.** The two primary objectives of this project were to evaluate irrigation quality (IQ) water, which is currently primarily comprised of reclaimed water, ASR design and operating criteria; and provide IQ system technical assistance.
- South County Water Treatment Plant Membrane Element Replacement.** Carollo assisted the County to replace the reverse osmosis (RO) membrane elements due to reliability, age of the existing infrastructure, and performance reasons, Carollo identified suitable RO membrane elements from three manufacturers to be competitively bid. Carollo also developed design drawings and installation specifications for a contractor to remove and install new membrane elements.
- South County Water Treatment Plant Electrical Reliability Improvements.** Carollo provided engineering services to design reliability improvements for numerous treatment processes as well as the deep injection well. Carollo designed improvements to electrical equipment including breakers, motor starters, distribution panels, and control devices. Process areas included were reverse osmosis, odor control, lime treatment, degasification, and sludge dewatering.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) Sarasota, FL	(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <div style="font-size: 24pt; color: #0070C0; text-align: center;">8</div>					
21. TITLE AND LOCATION (City and State) Utilities Engineering Library Sarasota, FL		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (if applicable)</td> </tr> <tr> <td>Ongoing</td> <td>Miscellaneous</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	Ongoing	Miscellaneous
PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)						
Ongoing	Miscellaneous						
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Sarasota County		b. POINT OF CONTACT NAME Greg Rouse, PE, PMP, Assistant Utility Director					
		c. POINT OF CONTACT TELEPHONE NUMBER 941-861-0548 grouse@scgov.net					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)							


RELEVANCE / HIGHLIGHTS

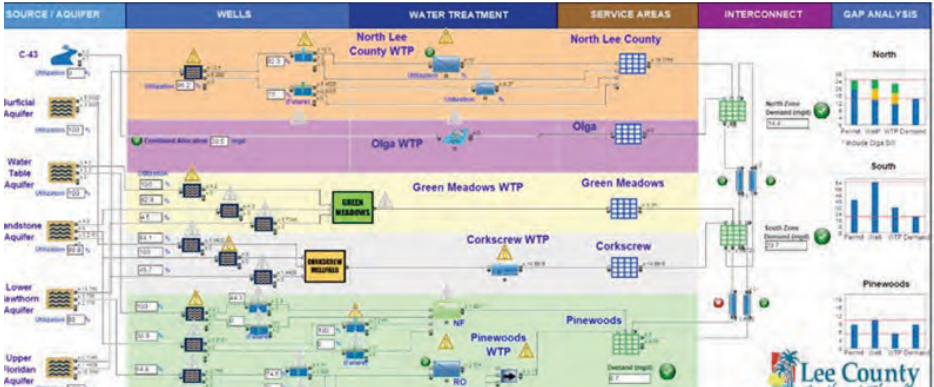
- Regulatory compliance.
- Water Treatment.
- Hydraulic Modeling.
- Master Planning.
- Infrastructure.

Project Description: Carollo completed several studies and designs, as well as stand-alone projects where Carollo was selected through the CNA process for a project-specific assignment. These include the following:

- **Siesta Key Water System Evaluation.** Project includes a preliminary evaluation of the water distribution system on Siesta Key along with a more detailed pilot study in an effort to develop a repair and rehabilitation program for the system.
- **Dona Bay Treatability Analysis for the Cow Pen Slough and Intermediate Aquifer Water Sources.** Carollo developed and analyzed treatment and integration alternatives for surface water from Sarasota County's Dona Bay Cow Pen Slough and groundwater from the Intermediate Aquifer. This project formed part of the ongoing efforts to develop these water sources to supplement their existing supply and meet future demands, as well as to achieve environmental restoration of the Dona Bay watershed.
- **Venice Gardens Water Treatment Facility Upgrades Design.** Carollo developed the preliminary and final expansion design for the Venice Gardens Water Treatment Facility. The expansion included upgrades and expansion of five existing RO membrane trains, including conversion from single stage to two stage arrays and the utilization of a hybrid membrane array for flux balancing.
- **Carlton Water Treatment Plant Finished Water Storage Tank Design.** Carollo designed a new 5-MG water storage tank to provide additional water storage capacity. Carollo also redesigned the existing yard piping at the Carlton WTP to accommodate the blending of water received from the Peace River Manasota Water Supply Authority (PRMWSA) with finished water from Carlton WTP.
- **SCADA Programming and Field Services.** This project includes programming, field services, and networking services supporting all locations and facilities owned and operated by the County.
- **Giffels-Webster Pump Stations 1 and 4 Improvements and Water Transmission Main.** The EI&C improvements generally consist of the installation of a new standby generator system, new instrumentation, as well as improvements to the control and supervisory control and data acquisition (SCADA) system.
- **Utility Permitting and Regulatory Compliance.** On-call work assignment to provide operations and permitting support.
- **Corrosion Inhibitor Study.** This project includes a desktop evaluation of corrosion blends, testing services comparing the relative performance of the County's current corrosion inhibitor at the current dose and two lower doses, as well as an alternative corrosion inhibitor, and a report summarizing the desktop evaluation, test results, and recommendations.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) Sarasota, FL
		(3) ROLE Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION <i>(City and State)</i> Utilities Engineer of Record Lee County, FL		22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION <i>(if applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Lee County	b. POINT OF CONTACT NAME Charlie Duverge, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER 239-533-8181 cduverge@leegov.com
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		



- RELEVANCE / HIGHLIGHTS
- Water treatment.
 - Hydraulic modeling.
 - Emerging contaminant treatment.
 - Condition assessment.
 - Permitting.

Project Description: Carollo has served as Lee County’s Water and Wastewater EOR for Fiscal Year 2011 through present. In order to satisfy the requirements of the County’s Water and Sewer Revenue Bond Resolution, Carollo conducts an annual utility systems review and prepares a comprehensive report for submission to the Board of County Commissioners. As detailed below, Carollo supports utility planning, facility O&M, business operations, asset management, and permitting through this contract.

- Annual Comprehensive Report.** The annual report provides an overview of the physical, operational, and financial condition of the water and wastewater systems. Each year, Carollo performs a physical inspection of facilities, an operations review for conformance to regulations, benchmark analysis of utility performance metrics, and a review of insurance/self-insurance policies and requirements as necessary to prepare a comprehensive report that includes an evaluation and recommendations for the continued successful operation of Lee County’s utility system.
- Source Water Resiliency.** Carollo assisted with the development of a source water supply, redundancy, operations, and management plan to help the County meet their goal of uninterrupted water service. This effort included development of a decision support tool (i.e., Blue Plan-it® model) for Lee County’s water supply and treatment system, which includes 121 production wells, five aquifer storage and recovery wells, a surface water supply from the Caloosahatchee river, and five water treatment plants. The resiliency of Lee County’s utility system was evaluated by modeling shutdown/failure events to identify how various scenarios could critically affect their system’s ability to meet current and future demands. Recommended improvements were provided to improve resiliency of the potable water system. The model is updated annually, with the latest demand projections incorporated for the following 20-year planning period (through 2043). The results from the updated models were presented to the County in the annual report.
- Water Treatment.** Under the County's Miscellaneous Utility Engineering Services and Engineering Library contracts, also held by Carollo, we have provided professional engineering services to evaluate the feasibility of facility upgrades and expansion at the County’s Corkscrew Water Treatment Plant (WTP). The scope of work includes evaluating the feasibility of adding treatment that will allow continued use of the surficial aquifer supply wells and a Lower Hawthorne aquifer RO treatment train to expand the WTP’s treatment capacity. As a result of the expanded production, this project will also evaluate expanding the plant’s high service pumping (and possibly storage) capabilities, as well as the plant’s 4-log virus disinfection compliance strategy.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) Sarasota, 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 one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION <i>(City and State)</i>		22. YEAR COMPLETED	
Multiple Continuing Engineers Service Contract / Assignments Winter Springs, FL		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
		Ongoing	Miscellaneous
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
City of Winter Springs	Phil Hursh, Interim City Manager	407-327-7591 phursh@winterspringsfl.org	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>			

**RELEVANCE / HIGHLIGHTS**

- Design and construction services of Florida water treatment facilities and infrastructure.
- Advanced treatment technologies.
- Compliance and permitting.
- Hydraulic modeling.

Project Description: The City of Winter Springs owns and operates three water treatment plants, two wastewater facilities, and approximately 35 lift stations. Carollo has provided the following projects under our continuing services contract held since 2018:

- **WTP No. 1, Process Evaluation.** WTP No. 1's process consists of split treatment with an ion exchange, cascade tray aeration, two ground storage tanks, sodium hypochlorite and corrosion inhibitor addition, and high service pumping. Carollo is performing an evaluation of the treatment process to help optimize operations and meet peak demands while remaining in compliance.
- **Well No. 1E, 3E, and 4E Hydrogeologic Evaluation.** The Carollo team conducted an evaluation of Wells No. 1E, 3E, and 4E at WTP No. 1. Hydrogeologic well evaluations were executed based on a loss of production and evaluation of raw water quality.
- **WTP No. 1, HSPS Suction Piping Replacement.** Carollo provided design, permitting, bidding support, and limited construction services for the new HSPS suction pipeline.
- **On-Call Engineering Support Services.** Carollo provides as-needed technical support to assist the utility division in completing various engineering tasks and support services for water, wastewater, reclaimed water, and stormwater utilities. These support services include planning, utility management, facilitation, operational assistance, and project management, in addition to providing staff to review and complete various on-going projects.
- **Regulatory Technical Support.** The City of Winter Springs requests technical and regulatory support services to assist with Florida Department of Environmental Protection (FDEP) and St. Johns River Water Management District (SJRWMD) compliance-related tasks.
- **Potable Water System Optimization Modifications.** Carollo assisted with permitting efforts to move the chlorine injection points at WTPs No. 2 and 3 and to evaluate sulfide removal at the WTPs by collecting field samples. The findings and recommendations from the sulfide evaluation were summarized in a project memorandum for the City. Carollo also provided coordination for the caustic squeeze process at WTPs and assisted with flow data verification.
- **Lead and Copper Compliance Rule.** This project is to assist the City of Winter Springs with developing a LCCR compliance plan with the initial LSL inventory.
- **Potable Water System Hydraulic Model Update and Calibration.** Provided update and calibration of the existing potable water system hydraulic model.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Carollo Engineers, Inc.	(2) FIRM LOCATION (City and State) Orlando, FL	(3) ROLE Prime
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PART I: SECTION G

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

KEY PERSONNEL

Liz Fujikawa, PE, BCEE, LEED AP	Client Service Manager/Project Manager	✓	✓	✓	✓						
Tung Nguyen, PE, PMP	Project Manager/Chemical Feed	✓		✓	✓	✓					
Dan Garcia, PE, ENV SP, LEED AP	Project Manager										
Bob Cushing, PhD, PE, BCEE	Technical Advisory Team & QA/QC	✓	✓	✓	✓		✓	✓	✓	✓	
Brandon Yallaly, PE	Technical Advisory Team & QA/QC							✓	✓		
Vinnie Hart, PE, ENV SP, LEED AP	Technical Advisory Team & QA/QC		✓	✓			✓			✓	
Eva Steinle-Darling, PhD, PE	PFAS Compliance	✓				✓	✓				
Sandeep Sethi, PhD, PE	Nanofiltration		✓					✓	✓		
Scott Richards, PE	Water Mains	✓	✓	✓	✓		✓		✓		✓
Leo Pou	Operations		✓								

OTHER TEAM MEMBERS

Chris Reinbold, PE	Filtration	✓	✓	✓	✓	✓	✓	✓	✓		
Erica Stone, PhD, PE	Disinfection/Chlorination								✓		✓
Angelica Gregory, PhD, PE	Planning/Modeling/Permitting		✓	✓	✓			✓			
Norm Anderson, PE	SCADA/I&C/Process Controls	✓	✓	✓							✓
Keith Dinnen, PE	SCADA/I&C/Process Controls	✓							✓		
Joel Smason, PE	Structural	✓	✓	✓	✓		✓	✓			
Chad Green, PE	Mechanical	✓	✓	✓	✓		✓				
Doug Dumont, CCM	Construction Administration/Management		✓	✓							
Emily Platt	Grant Assistance (Pre-Grant)	✓									
Lisa Arroyo, PE	Grant Assistance (Post-Grant)			✓	✓				✓		
Jim Anderson, PG	Production Well Evaluation										
Alex Stojanovic, PE	Electrical						✓				
Robert Keener, PSM	Survey/SUE										
Jaime Velez, PE	Geotechnical										

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)	NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)
1	Continuing Engineering Consulting Services Contract Delray Beach, FL	6	General Engineering Services FKAA, Key West, FL
2	Continuing Contract for Engineering Services Water Engineering Services, Pumping Stations and Storage Tanks, Broward County, FL	7	Utility Professional Services Library Collier County, FL
3	General Consulting Engineering Services Boynton Beach, FL	8	Utilities Engineering Library Sarasota, FL
4	Continuing Contract for Engineering Services Pompano Beach, FL	9	Utilities Engineer of Record Lee County, FL
5	Professional Engineering/Architectural Services Pembroke Pines, FL	10	Multiple Continuing Engineers Service Contract / Assignments, Winter Springs, FL

PART I: SECTION H

H. ADDITIONAL INFORMATION

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

Evaluation Criteria
Qualifications

Carollo Meets or Exceeds the Evaluation Criteria

Carollo meets and exceeds the minimum requirements of this RFQ, bringing more than 91 years of serving public sector clients in the water and wastewater industry. Through our eight offices in the state of Florida, backed by additional offices and experts throughout the country, Carollo can provide a level of service, attention to detail, and knowledge of water and wastewater issues unique to Florida few can match.



The majority of the work and management of this contract **will be performed in the local West Palm Beach office** located within the Palm Beach County limits.



Carollo **has been in continuous practice for 91 years** and has been working for **local governments in Southeast Florida** since **2004**.



Carollo provides exclusively **water and wastewater utility consulting** engineering services. **More than 90%** of our clients are government agencies, many with infrastructure of similar size and complexity. Carollo has been providing engineering services to the **City of Delray Beach** since **2018**.



Carollo is **Registered with the State of Florida**, Division of Corporations to do business in Florida and is **Licensed to provide Engineering Services** by the Florida Department of Business & Professional Regulation **since 2000**. Our subconsultant partner, **Craig A. Smith & Associates, LLC**, is a **Licensed Surveyor** in Florida.



Carollo has **NO** conflict of interest in relation to this RFQ and is **NOT** on the Florida Statutes Scrutinized Companies List.



Carollo has provided reference projects that **ARE still in successful operation**. Our references will attest to our **successful performance on past projects, on time completion, within budget, and efficient deliverables**.



Carollo has provided our five year litigation history and demonstrated we are **NOT excessively litigious**.



Carollo has provided an **EXPERIENCED TEAM**, well versed in providing planning, studies, design, and construction services for **WATER TREATMENT FACILITIES and water distribution systems of similar size** and scopes of **similar complexity**.



Carollo's **COST CONTROL, work quality, and ability to adhere to schedules** and budgetary requirements has been demonstrated on past projects completed by our proposed team members.



Carollo team members are **AVAILABLE and devoted** to commit the proposed personnel and time to the projects assigned under this contract.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

December 4, 2024

33. NAME AND TITLE

Elizabeth Fujikawa, PE, LEED AP, Vice President

PART II: GENERAL QUALIFICATIONS

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2007		045809316	
2b. STREET				5. OWNERSHIP			
2056 Vista Parkway, Suite 400				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
West Palm Beach		Florida		33411		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Angelica Gregory, PhD, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
561-868-6400		agregory@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117		A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	3	E03	Electrical Studies and Design	10	
	Computer Personnel	45		P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58	1	S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143					
21	Electrical Engineers	45					
23	Environmental Engineers	353	3				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44					
	Marketing	69					
42	Mechanical Engineers	26					
57	Structural Engineers	38					
	Word Processing	18					
	Other Employees	106	1				
TOTAL		1436	8				
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		2		1. Less than \$100,000		6. \$2 million to less than \$5 million	
b. Non-Federal Work		10		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		10		3. \$250,000 to less than 500,000		8. \$10 million to less than \$25 million	
				4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million	
				5. \$1 million to less than \$2 million		10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE						b. DATE	
						12/4/2024	
c. NAME AND TITLE							
Angelica Gregory, PhD, PE, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2007		045809316	
2b. STREET				5. OWNERSHIP			
2728 North University Drive, Bldg. 2700				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Coral Springs		Florida		33065		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Angelica Gregory, PhD, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
954-837-0030		agregory@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	1	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	1	E03	Electrical Studies and Design	10	
	Computer Personnel	45		P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58		S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	1				
21	Electrical Engineers	45					
23	Environmental Engineers	353	4				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44	1				
	Marketing	69	2				
42	Mechanical Engineers	26					
57	Structural Engineers	38					
	Word Processing	18					
	Other Employees	106					
TOTAL		1436	10				
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	2	1. Less than \$100,000			6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000			7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000			8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million			9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million			10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE				b. DATE			
				12/4/2024			
c. NAME AND TITLE							
Angelica Gregory, PhD, PE, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2004		045809316	
2b. STREET				5. OWNERSHIP			
703 Waterford Way, Suite 560				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Miami		Florida		33126		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (If Block 2a is a Branch Office)			
Jafeth Baez Rossy, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
305-261-2484		jbaezrossy@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117		A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	2	E03	Electrical Studies and Design	10	
	Computer Personnel	45		P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16	1	P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58		S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31	1	W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	4				
21	Electrical Engineers	45					
23	Environmental Engineers	353	3				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44					
	Marketing	69	1				
42	Mechanical Engineers	26					
57	Structural Engineers	38					
	Word Processing	18					
	Other Employees	106					
TOTAL		1436	12				
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	2	1. Less than \$100,000		6. \$2 million to less than \$5 million			
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million			
c. Total Work	10	3. \$250,000 to less than 500,000		8. \$10 million to less than \$25 million			
		4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million			
		5. \$1 million to less than \$2 million		10. \$50 million or greater			
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE				b. DATE			
				12/4/2024			
c. NAME AND TITLE							
Jafeth Baez Rossy, PE, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2001		045809316	
2b. STREET				5. OWNERSHIP			
301 North Cattleman Road, Suite 302				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Sarasota		Florida		34232		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Dharmin Desai, PE, PMP, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
941-371-9832		ddesai@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	1	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	9	E03	Electrical Studies and Design	10	
	Computer Personnel	45	1	P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58	4	S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	2				
21	Electrical Engineers	45					
23	Environmental Engineers	353	5				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44					
	Marketing	69					
42	Mechanical Engineers	26					
57	Structural Engineers	38					
	Word Processing	18					
	Other Employees	106	1				
TOTAL		1436	23				
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	2	1. Less than \$100,000			6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000			7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than 500,000			8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million			9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million			10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE				b. DATE			
Dharmin . D. Desai				12/4/2024			
c. NAME AND TITLE							
Dharmin Desai, PE, PMP, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2006		045809316	
2b. STREET				5. OWNERSHIP			
200 East Robinson Street, Suite 1400				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Orlando		Florida		32801		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (If Block 2a is a Branch Office)			
Elisabetta Natale, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
407-478-4642		enatale@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	1	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	10	E03	Electrical Studies and Design	10	
	Computer Personnel	45	1	P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58		S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	6				
21	Electrical Engineers	45	1				
23	Environmental Engineers	353	17				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44	2				
	Marketing	69	2				
42	Mechanical Engineers	26					
57	Structural Engineers	38					
	Word Processing	18	2				
	Other Employees	106	2				
TOTAL		1436	44				
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	2	1. Less than \$100,000				6. \$2 million to less than \$5 million	
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000				7. \$5 million to less than \$10 million	
c. Total Work	10	3. \$250,000 to less than \$500,000				8. \$10 million to less than \$25 million	
		4. \$500,000 to less than \$1 million				9. \$25 million to less than \$50 million	
		5. \$1 million to less than \$2 million				10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE						b. DATE	
						12/4/2024	
c. NAME AND TITLE							
Elisabetta Natale, PE, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				2014		045809316	
2b. STREET				5. OWNERSHIP			
101 East Kennedy Blvd, Suite 700				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Tampa		Florida		33602		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Jose Rojas, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
813-888-9572		jrojas@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	1	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	4	E03	Electrical Studies and Design	10	
	Computer Personnel	45		P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16	1	P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58	2	S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31	1	W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143					
21	Electrical Engineers	45	6				
23	Environmental Engineers	353	6				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44	3				
	Marketing	69	1				
42	Mechanical Engineers	26					
57	Structural Engineers	38	2				
	Word Processing	18					
	Other Employees	106	1				
TOTAL		1436	28				
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		2		1. Less than \$100,000		6. \$2 million to less than \$5 million	
b. Non-Federal Work		10		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		10		3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million	
				4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million	
				5. \$1 million to less than \$2 million		10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE						b. DATE	
						12/4/2024	
c. NAME AND TITLE							
Jose Rojas, PE, Associate Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				1994		045809316	
2b. STREET				5. OWNERSHIP			
12592 West Explorer Drive, Suite 200				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Boise		Idaho		83713		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Patrick Carlson, PE, Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
208-376-2288		pcarlson@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	2	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	5	E03	Electrical Studies and Design	10	
	Computer Personnel	45	1	P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58		S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	3				
21	Electrical Engineers	45					
23	Environmental Engineers	353	20				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44					
	Marketing	69	5				
42	Mechanical Engineers	26	3				
57	Structural Engineers	38					
	Word Processing	18					
	Other Employees	106					
TOTAL		1436	39				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work	2	1. Less than \$100,000				6. \$2 million to less than \$5 million	
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000				7. \$5 million to less than \$10 million	
c. Total Work	10	3. \$250,000 to less than \$500,000				8. \$10 million to less than \$25 million	
		4. \$500,000 to less than \$1 million				9. \$25 million to less than \$50 million	
		5. \$1 million to less than \$2 million				10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE						b. DATE	
						12/4/2024	
c. NAME AND TITLE							
Patrick Carlson, PE, Vice President							

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ No. 2025-007

PART II - GENERAL QUALIFICATIONS

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

2a. FIRM (or Branch Office) NAME				3. YEAR ESTABLISHED		4. DUNS NUMBER	
Carollo Engineers, Inc.				1999		045809316	
2b. STREET				5. OWNERSHIP			
10900 Stonelake Boulevard, Bldg. 2, Suite 126				a. TYPE			
2c. CITY		2d. STATE		2e. ZIP CODE		Corporation	
Austin		Texas		78759		b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE				7. NAME OF FIRM (if Block 2a is a Branch Office)			
Rene Aguilar, PE, Associate Vice President							
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS					
512-453-5383		raguilar@carollo.com					
8a. FORMER FIRM NAME(S) (if any)				8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
Carollo Engineers, PC				1998			
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	117	1	A12	Automation; Controls; Instrumentation	7	
06	Architects	4		C15	Construction Management	9	
10	Chemical Engineers	9		C17	Corrosion Control; Cathodic Protection; Electrolysis	2	
12	Civil Engineers	311	11	E03	Electrical Studies and Design	10	
	Computer Personnel	45		P04	Pipelines (Cross-country--Liquid & Gas)	7	
	Construction Engineers	16		P06	Planning (Site, Installation and Project)	9	
15	Construction Inspectors	58	2	S04	Sewage Collection, Treatment & Disposal	9	
16	Construction Managers	31		W03	Water Supply; Treatment and Distribution	10	
	Draftsperson	143	1				
21	Electrical Engineers	45	1				
23	Environmental Engineers	353	16				
29	Geographic Information System Specialist	3					
	Instrumentation/Control	44					
	Marketing	69	1				
42	Mechanical Engineers	26	1				
57	Structural Engineers	38					
	Word Processing	18	1				
	Other Employees	106	2				
TOTAL		1436	37				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work	2	1. Less than \$100,000			6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000			7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000			8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million			9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million			10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.							
a. SIGNATURE				b. DATE			
				12/4/2024			
c. NAME AND TITLE							
Rene Aguilar, PE, Associate Vice President							

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

4. DUNS NUMBER
047411243

3. YEAR
ESTABLISHED
2007

5. OWNERSHIP

2d. STATE
FL2e. ZIP CODE
33064

a. TYPE
Limited Liability Company

b. SMALL BUSINESS STATUS
Electrical Engineering Services 541330

6c. EMAIL ADDRESS
astoianovic@adsengineeringinc.com

7. NAME OF FIRM (if block 2a is a branch office)

8a. FORMER FIRM NAME(S) (if any)

8b. YR. ESTABLISHED
2007

8c. DUNS NUMBER	047411243
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10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

[illegible]

(Insert revenue index number shown at right)

a. Federal Work	0
b. Non-Federal Work	4
c. Total Work	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

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

a. SIGNATURE

b. DATE	11/05/2024
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c. NAME AND TITLE
Aleksandar Stojanovic, President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

PROJECT NO. RFQ 2024 007

PART II - GENERAL QUALIFICATIONS*(If a firm has branch offices, complete for each specific branch office seeking work.)*

2a. FIRM (OR BRANCH OFFICE) NAME Craig A. Smith & Associates, LLC			3. YEAR ESTABLISHED 1980	4. DUNS NUMBER 024291826
2b. STREET 1425 E. Newport Center Drive,			5. OWNERSHIP	
2c. CITY Deerfield Beach	2d. STATE FL	2e. ZIP CODE 33442	a. TYPE LLC	
6a. POINT OF CONTACT NAME AND TITLE Stephen C. Smith, P.E., President			b. SMALL BUSINESS STATUS SBE/MBE	
6b. TELEPHONE NUMBER (954) 782 8222			7. NAME OF FIRM (If block 2a. is a branch office) N/A	
6c. E-MAIL ADDRESS ssmith@craigasmith.com				

8a. FORMER FIRM NAME(S) (If any) Craig A. Smith & Associates, Inc	8b. YR ESTABLISHED 1980	8c. DUNS NUMBER
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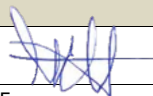
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	5		C10	Commercial Buildings	1
08	CADD Technical	3		C11	Commercial Facilities	1
12	Civil Engineering	6		C16	Construction Survey	3
15	Construction Inspection	3		D04	Design Building	1
42	Mechanical Engineer	1		D05	Digital Elevation	1
38	Land Surveyor	8		D08	Dredging	1
	Utility Locators	21		E09	Environmental Impact Studies	1
				G04	GIS	1
				C15	Construction Management	3
				H07	Highways/Streets	2
				I06	Drainage	4
				L02	Land Surveying	4
				O01	Office Buildings	1
				P05	Planning	2
				R07	Remote Sensing	1
				R09	Recycling	1
				R11	Waterways	1
				S07	Solid Waste	1
				S10	Survey	4
				S13	Stormwater Handling & Facilities	4
	Other Employees			T04	Topo Survey & Mapping	3
				W03	Water Supply	3
Total		47				

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	1	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	7	2. \$100,00 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	7	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 11-4-2024

c. NAME AND TITLE

Stephen C. Smith, P.E., President

City of Delray Beach / Continuing Engineering Consulting Services: Water Treatment Design Services / RFQ NO.: 2025-007

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ 2024-007

PART II - GENERAL QUALIFICATIONS

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

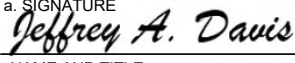
2a. FIRM (or Branch Office) NAME Terracon Consultants, Inc.			3. YEAR ESTABLISHED 2013	4. UNIQUE ENTITY IDENTIFIER MG15GZJ9BES5
2b. STREET 1225 Omar Rd			5. OWNERSHIP	
2c. CITY West Palm Beach			2d. STATE FL	2e. ZIP CODE 33405-1046
6a. POINT OF CONTACT NAME AND TITLE Mike O'Connor, Office Manager			a. TYPE Corporation	
6b. TELEPHONE NUMBER 561-689-4299			b. SMALL BUSINESS STATUS N/A	
6c. E-MAIL ADDRESS mike.oconnor@terracon.com			7. NAME OF FIRM (If Block 2a is a Branch Office) Terracon Consultants, Inc. (Est. 1965, DUNS No. 613569961)	
8a. FORMER FIRM NAME(S) (If any) Dunkelberger Engineering and Testing, Inc.			8b. YEAR ESTABLISHED 1994	8c. UNIQUE ENTITY IDENTIFIER 931493233

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			
05	Archaeologist	59	0	A06	Airports	8
06	Architect	22	0	A10	Asbestos Abatement	10
07	Biologist	88	0	B02	Bridges	8
08	CADD Technician	32	0	D01/D02	Dams/Dikes/Levees	7
12/27/55	Civil/Geotechnical/Foundation/Soils Engineer	810	3	D04	Design Build RFPs	9
				E07	Renewable Energy/Conservation	10
15	Construction Inspector	178	0	E09/E13	EIS/NEPA/Env Testing & Analysis	10
23	Environmental Engineer	269	0	E12/H03	Environmental Remediation/HTRW	8
24	Environmental Scientist/NEPA	501	1	H07	Highways/Streets/Parking	10
29	GIS Specialist	31	0	H09	Medical Facilities	8
30	Geologist	321	0	H10	Hospitality	8
36	Industrial Hygienist	34	0	H11	Multi-Family Housing	9
39	Landscape Architect	8	0	I01/W01	Industrial Manufacturing/Warehouse	10
40	Construction Materials/Pavement Engineer	412	2	P12	Power Gen. Transmission Distribution	9
51	Safety/Occupational Health Engr.	13	0	R03	Railroad/Rapid Transit	7
58	Technician/Analyst (Testing Lab)	2181	8	R12	Roofing	4
	Driller	348	0	S03	Seismic Designs and Studies	4
	Engineering Manager	164	1	S05	Soils/Geologic Studies/Foundations	10
	Bldg Enclosure Cx/ Inspector	90	0	S07/S13	Solid Waste Facilities/Stormwater	8
	Geophysicist	54	0	S11	Sustainable Design	7
	Historic Preservationist	7	0	T02	Testing and Inspection Services	10
				W02	Water/Hydrology/Groundwater	6
				W03	Water Supply/Treatment/Distribution	8
	Other Employees	887	2			
Total		6,509	17			

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	9	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 11/15/2024
c. NAME AND TITLE Jeff Davis, FSAME National Director, Federal Services	

STANDARD FORM 330 (REV 7/2021)



CHAPTER

3

Minimum Qualifications Documentation

F. Litigation History

F. Litigation History

Carollo Engineers, Inc., has been involved in the following litigation matters in the last five (5) years however, no actions have been against and/or involved (1) any public agency in Florida; or (2) any private entity for an amount greater than \$100,000.

- In 2020, Carollo and their joint venture partner were the subject of a lawsuit filed by a client related to tank corrosion as part of a design-build project completed in 2005. The matter was submitted to mediation and thereafter settled with no admission of fault by Carollo.
- In 2021, Carollo was the subject of a lawsuit filed by a client related to the replacement of trickling filter media as part of a wastewater treatment plant rehabilitation project. Carollo denies responsibility for any of the claims. The lawsuit is in progress.
- In 2021, Carollo and the construction contractor were the subject of a lawsuit filed on behalf of a client via subrogation by their insurance carrier related to ozone equipment installed as part of a new surface water treatment plant project. The lawsuit was dismissed.

Proposal Response Requirements Information

- A. Experience, Background,
Reference Feedback
- B. Approach to Project Management
- C. Projects for Similar Services
- D. Organizational Structure

Proposal Response Requirements Information

A. Experience, Background,
Reference Feedback

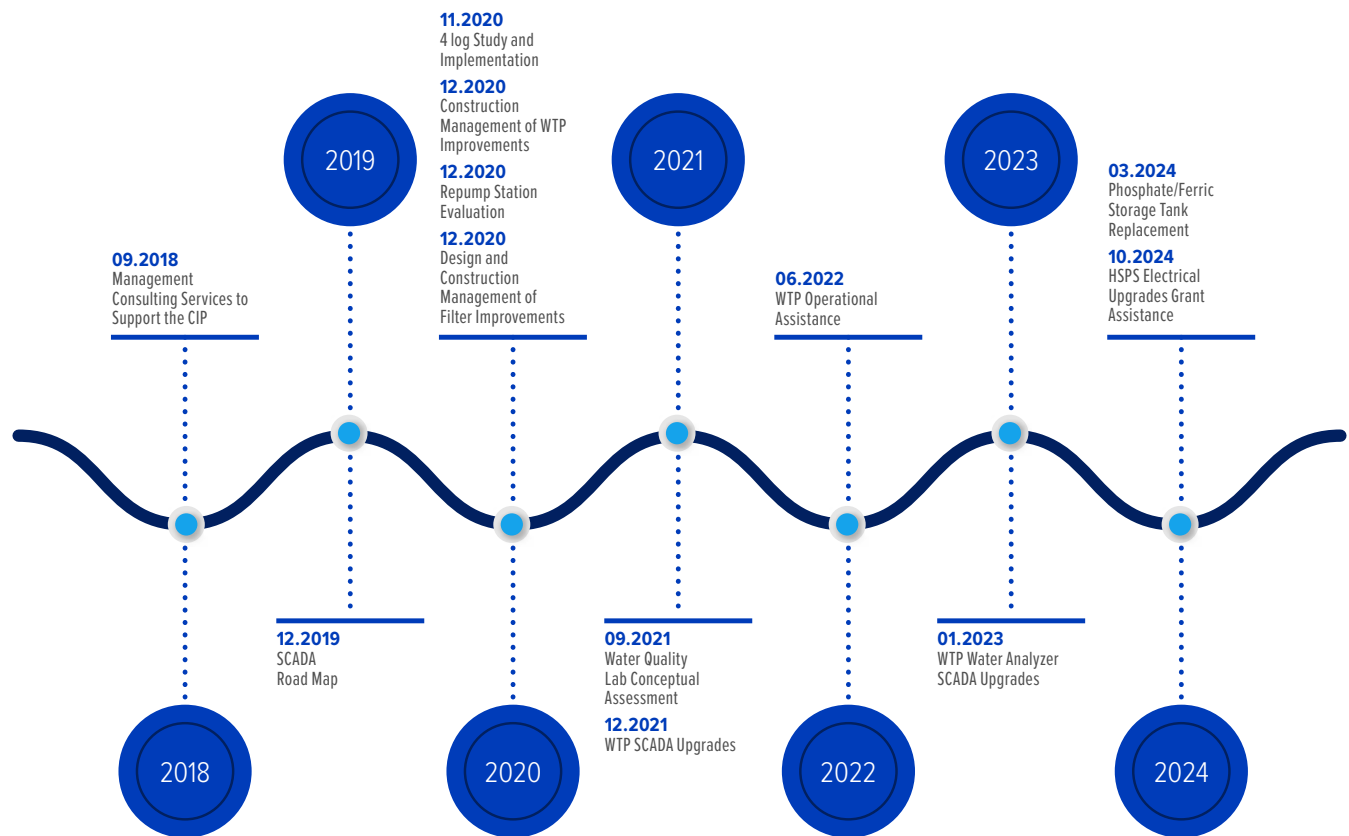
Chapter 4: Proposal Response Requirements Information

A. Experience, Background, Reference Feedback

i. Carollo Engineers (Carollo) is providing our qualifications to be considered for the re-selection to provide consulting engineering services under the category of Water Treatment Design Services.

Since completing our first task order to support your capital improvement program (CIP) in 2018, we have been working with your staff through a wide array of projects, including a 4-log study and implementation; construction management for water treatment plant (WTP) improvements; WTP SCADA upgrades; WTP operational assistance; phosphate/ferric storage tank replacement; and high service pump station (HSPS) electrical upgrades grant assistance, among others. These projects have truly required the breadth of Carollo staff to provide the innovative ideas that we are known for, while being mindful of your budget constraints and respectful of your preferences.

 **Our history together has led to a personal connection in your success and desire to better your facilities.**



What Does This Mean to the City of Delray Beach?

Simply this: Access to our local, expert staff that are committed to you, resulting in *cost effective and operable solutions for your needs.*

A “Go-To” Local Firm Offering Superior Client Service

ii. **Carollo will continue to deliver your projects from our local office in West Palm Beach, just minutes away from you. Since our first Florida office opened in the year 2000, Carollo has progressed from the new kid on the block to the preferred “go-to” firm for numerous municipal utilities. The reason rests not with just the creative thinking we bring to our projects, or our depth of experience, but also with the manner in which our services are delivered.**

What Carollo Brings to the Table

Carollo has experienced unprecedented growth nationally and throughout Florida; growth driven by our approach to client service and the innovative solutions we consistently bring to the table.

This growth is fueled by our ability to listen to our clients' needs and then respond with innovative solutions that ultimately solve the technical problem while reducing capital and operating costs as well as risk. When you contact our references, we are confident you will hear phrases that include the words “**innovation,**” “**responsiveness,**” and “**integrity.**”

The best indicator of our ability to exceed the expectations of our clients is the fact that over 86% of our work comes from “repeat” clients. Exceeding expectations requires that project teams have multiple skills, including technical knowledge, understanding of local issues, and a drive for “**OUT-OF-THE-BOX THINKING**” to find the best solutions.

Financial Stability

The financial stability of Carollo is demonstrated by our **91 years of successfully providing engineering services to our clients.** We have maintained a high level of fiscal responsibility throughout the years. Each year Carollo undergoes a full audit, a summary of which can be provided upon request.



ENGINEERING

Range of Services by Carollo

Water Treatment:

- » Water Supply Wells
- » Filtration
- » Membrane - nanofiltration (NF) and reverse osmosis (RO)
- » Lime Softening
- » Concentrate Optimization/Disposal
- » Ion Exchange
- » Advanced Disinfection
- » Pumping and Storage
- » SCADA
- » Security Systems
- » Standby Power
- » Operations Support
- » Treatment Optimization

Special Studies:

- » Master and Facility Planning
- » Hydraulic Optimization
- » Asset Management
- » Energy Optimization
- » Vulnerability Assessment
- » Pilot Studies
- » Grant Procurement/Management
- » Rate Studies
- » Arc Flash Studies

Carollo Engineers is one of the largest engineering firms in the United States dedicated **solely to water and wastewater related engineering — it's all we do.** This targeted expertise allows us to focus on developing cost-effective, innovative, and reliable solutions to help our clients implement best value results for protecting public health and the environment.

Firm **Qualifications and Expertise**

Experience

Delivering engineering services through on-call continuing contracts is what we do. In fact, more than 80% of our Florida business is provided to municipal clients through on-call contracts similar to yours. We understand that the City is looking for a full range of professional engineering services to support a wide variety of projects. Carollo excels at delivering exceptional value for these types of assignments.



Carollo Provides Similar General Engineering Consulting Services for Numerous Utilities Throughout Florida



a. Carollo Team Experience

ENGINEERING. We currently provide continuing engineering services to many water and wastewater agencies throughout Florida under a similar “as-needed” services approach. On these contracts, not only have we established a reputation of responsive, high-value service, we have also demonstrated our flexibility in providing the “right” expertise to efficiently resolve project issues. We commit this same high level of service to the City on this as-needed work.

Carollo’s experience as a continuing services consultant for Florida entities includes working for you at the water treatment plant, South Florida Water Management District, Palm Beach County, Manatee County, Broward County, Sarasota County, and the cities of Margate, Sunrise, Boynton Beach, Pompano Beach, Orlando, and others. Our Florida staff of more than 140 can quickly and effectively mobilize to complete the City’s projects as they develop.

SURVEYING AND MAPPING. Carollo’s teaming partner, Craig A. Smith & Associates (CAS) will be providing surveying and mapping services under this contract. CAS is one of the oldest and respected surveying firms in South Florida and provides complete land surveying services. CAS surveying staff is comprised of licensed land surveyors who adhere to strict standards and give special attention to accuracy and detail. CAS utilizes the most modern electronic measurement equipment. Quality control measures are also implemented daily so clients receive the highest quality service.

CAS provides surveying and subsurface utility engineering (SUE) services throughout Southeast Florida for clients that include the City of Delray Beach, Margate, Jupiter, West Palm Beach, and Palm Beach County. Services include mapping and platting, boundary and acreage surveys, land description preparation, construction surveys, gps mapping, route surveys, canal cross-sections, parcel description and sketches, as-built certifications, mean high water surveys, aerial drone surveys, subsurface utility engineering providing utility mapping, electromagnetic designating, 2D radar designating, 3D radar tomography, vacuum soft digs, and conventional and GPS utility surveys. CAS also provides utility coordination services, interfacing with utility owner/operators on behalf of engineers, planners, contractors, and project designers.

CIVIL ENGINEERING. Carollo routinely provides civil engineering either as part of our water and wastewater treatment plant projects or on stand-alone projects. Projects include the planning, design, and construction phase management of distribution systems, pump/lift stations, transmission mains, reuse systems, and stormwater collection and drainage.

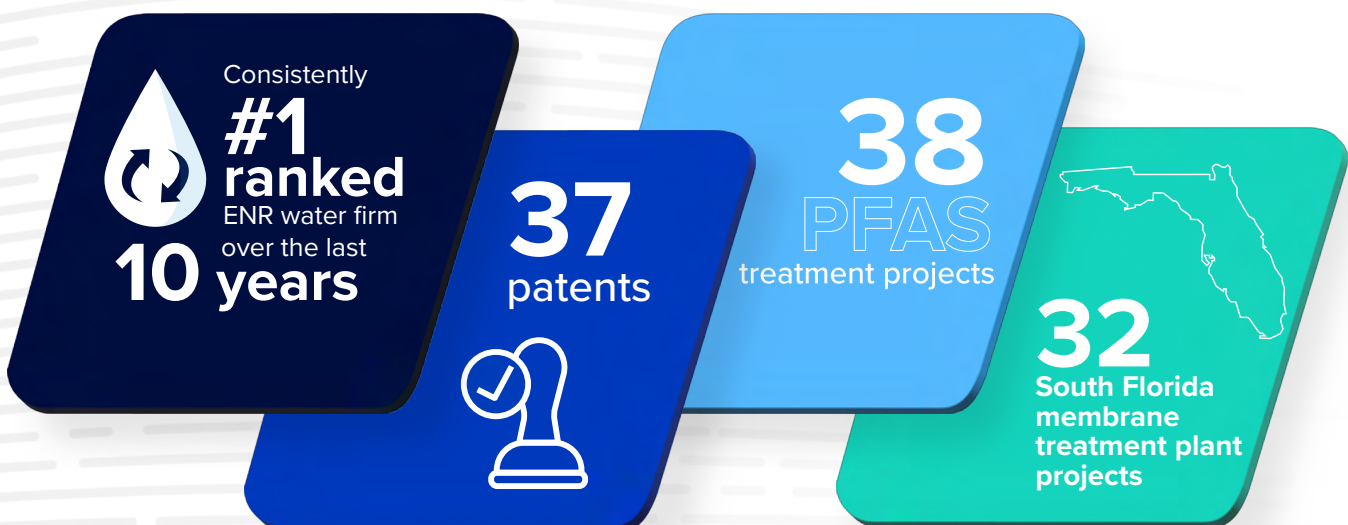
MECHANICAL/ELECTRICAL. Carollo provides in-house mechanical engineering to support the planning, design, and construction management of water and wastewater treatment facilities, pump stations, and ancillary facilities such as administration facilities and maintenance shops. Projects include standby power, air and gas compressors and blowers, energy efficiency and optimization, cogeneration facilities, dehumidification, air conditioning, and heating. Carollo has an established electrical engineering group with seven decades of experience including all aspects of electric power and automation system engineering for water and wastewater treatment processes. Our engineers also routinely provide plumbing design services, including fire protection, sanitary system designs, and protected water system designs.

STRUCTURAL. Our structural engineering department, consisting of 20 structural engineers, provides the structural engineering required on our water, wastewater, and reclaimed water projects, including water bearing tankage, superstructures (precast tee and steel joist/deck roofs), analysis of existing structures for repurposing, rehabilitation of prestressed and cast in place concrete structures, etc. Our services routinely include new and rehabilitation projects where the goal is to return structural integrity and reliability to a system without increasing its flow-carrying capacity. We match infrastructure rehabilitation/repair technologies to each specific project for successful results. We find the combination that works best for a project, providing cost-saving benefits to our clients.

ENVIRONMENTAL. We have provided a wide array of environmental engineering services on past projects, including identification of protected species on construction sites, protection of grasses in the intracoastal waterway, and erosion protection.

WATER RESOURCES/STORMWATER MANAGEMENT. Our team includes nationally-recognized experts in water resources/stormwater management, Carollo has also been at the forefront of potable water reuse and water reuse, with significant work in research, planning, permitting, and design. Carollo is on the forefront of technology potable reuse projects. More importantly, our project team includes experts who have taken reuse projects from proof of concept to construction and operations. Our national credentials are balanced by our local team who is thoroughly familiar with Florida reuse regulations, and the design and operation of bench scale and pilot studies needed to obtain regulatory approval.

Our team includes nationally-recognized experts in stormwater management that will identify and develop proven, cost effective, and implementable programs without “reinventing the wheel.” We are experienced in implementing stormwater best management practices (BMPs) and low-impact development (LID) practices to assist clients in meeting EPA Phase I and II requirements. We use a comprehensive master planning approach to manage flooding while improving water quality.



b. Experience in Other Related Services

Water Treatment

We know that the City of Delray Beach takes pride in providing quality water and a high level of service to its customers and is currently in the process of replacing your water treatment plant with a new state-of-the-art water treatment plant that will continue to serve the community for years to come. We hope to continue to support your commitment to provide safe and dependable service. At Carollo, our focus and passion is planning, design, and construction of water and wastewater facilities including treatment and conveyance systems. Carollo's reputation is based upon client service and a continual commitment to quality.

More than 98 percent of our work completed is for municipal clients just like the City. We provide continuing services for water and wastewater treatment contracts to assist our clients with any treatment project that you would require as part of your Continuing Engineering Consulting Services contract. We have had the privilege to work with most of the major water/wastewater agencies in Florida.

Capabilities

Carollo has provided planning, design, and construction management services for water and wastewater agencies serving populations ranging from less than 10,000 to more than 2 million.

Our experienced professionals are ready to help the City with any of the following services:

- Low Pressure Membrane Softening
- Nanofiltration
- Ion Exchange
- Lime Softening
- Disinfection/Chlorination
- Power Management and Power Generation
- Process Control and Instrumentation
- Planning, Design, Permitting, Bidding Assistance, and Services During Construction
- Production Well Evaluation, Construction, and Implementation
- Construction Administration and Management
- Public Relations Consulting Services
- Review RFP, RFQ, and Bid Evaluations
- Grant Assistance (if applicable, limited to only specific task orders related to a grant)
- Other Related Services

Our team has provided local clients with design expertise for facilities of all sizes and processes for wastewater and water, as shown in the examples provided in Section iii.



City of Boynton Beach - IX Plant and East WTP Improvements. Carollo designed and constructed a 16-mgd MIEX treatment process to pretreat water from multiple wells prior to the lime softening process.



City of Sunrise - Springtree Water Treatment Plant Ion Exchange System Improvements. Carollo provided renewal and replacement of the 24-mgd lime softening facility, which included design of a fluidized-bed IX treatment system. The IX system will reduce TOC, control color, and minimize DBP formation potential.



City of Pompano Beach - Transfer Pump Station Expansion. Carollo completed the design and prepared the contract documents for the design and construction management for the electrical switchgear, VFD addition and pump replacement for the City's transfer pump station.

Water Distribution, Pumping Facilities, and Modeling

Carollo's expertise does not stop with the design of transmission and distribution systems. Through our understanding of how these systems work, we are able to identify system bottlenecks, cost saving project sequencing and alignments.

Water Distribution

Carollo has provided design and construction management services for:

- More than 700 miles of water pipeline ranging in size from 6 to 108 inches in diameter.
- Over 100 water pumping stations with capacities as high as 600 mgd.
- More than 150 water storage reservoirs with capacities ranging from less than 1 to 60 MG.

Pumping Facilities

- We have designed pumping facilities ranging from less than 1 to over 600 mgd.

Our pipeline rehabilitation projects have incorporated traditional cut-and-cover and jack-and bore construction methods, as well as micro-tunneling, horizontal directional drilling, tunnel boring, pipe bursting, fold-and-form pipe, cured-in-place pipe, and slip-lining techniques.

Master Planning

Water and wastewater master planning has been an integral aspect of Carollo's experience for more than seven decades.

- Many of our long-term client relationships began with long-range planning projects. In just the past 15 years, Carollo has performed master planning, hydraulic modeling, water and wastewater plant assessments, and development of capital improvement and implementation programs for over 200 municipal clients with service area populations from 5,000 to over 1 million.
- Carollo has been a leader in the development of hydraulic models and master plans for water and wastewater agencies facing a variety of complex issues from system expansion to operational evaluations.
- We have completed water treatment plant evaluations for over 100 facilities treating a wide variety of water supplies in 25 different states.

Permitting

The local Carollo team has extensive experience with all types of water resources, water, and wastewater facilities permitting with local, state, and federal agencies. We understand a "hands-on" strategy is necessary to achieve favorable permit conditions. This involves working closely with the appropriate regulatory agencies and stakeholders to renew, revise, or obtain favorable permit conditions. This has resulted in the successful negotiation of new and renewed permits and the resolution of complex permitting issues for our municipal clients.

Construction Management

- Carollo has provided construction management services for over \$1 billion in municipal water and wastewater facilities in the last 10 years.
- We have provided construction management services for both Carollo-designed facilities and facilities designed by others.



OUR TEAM INCLUDES TECHNOLOGY EXPERTS

that participate in or lead water industry groups studying PFAS, their origins, PFAS regulatory landscape, treatment technologies, and ultimate residual waste management. Carollo's Water ARC® testing laboratory provides all necessary bench-scale, pilot-scale, and water quality analysis necessary for a comprehensive and cost-effective PFAS treatment study.

c. Awards, Certifications, and Other Recognition

What Sets Us Apart...

Local Awards, Certifications, and Other Recognition



State of the Art MIEX® System Palm Beach County, FL

- This project won an award from the Florida Institute of Consulting Engineers.
- The system is the largest MIEX® System of its type in North America.
- The system has saved PBC approximately \$310,000/year in operations costs.



Expansion to 11.6 mgd Lee County, FL

- This project won the 2012 Florida Section Design-Build Institute of America (DBIA) Award for Water/Wastewater projects.
- Provided pilot testing, design, and construction phase services for the membrane treatment system.



Design of Pump Station and Inflow Structure South Florida Water Management District (SFWMD)

- The L-8 Flow Equalization Basin Project received the “Engineering Project of the Century” Award from the Florida Engineering Society.



Carollo's Leadership in Water and Wastewater

- We currently rank within the top nine firms for water and wastewater treatment, per the Engineering News Record, 2024.
- We regularly present 15-20 and 20-25 technical papers related to water and wastewater at AWWA ACE and WEFTEC conferences, respectively. This is a testament to our efforts to be on the cutting edge of water and wastewater technology.
- Our people set us apart. From recent graduates to career professionals, Carollo employs some of the best engineers and scientists in the industry.

Carollo Has an Innovative Focus

Innovation is vital to all we do. We work tirelessly to advance the science and engineering of water and wastewater finding the most creative and technically sound solutions to fit your needs. Carollo dedicates funds annually to conduct leading edge research and development to advance the state of the water industry, and most importantly solve challenges for our clients.

Examples of the areas where we have applied innovative techniques and solutions include:

- Facilities Expansions
- Biological Filtration in Water Treatment Plants
- Improved Energy Management
- Sustainability of Resources
- Trace Organic Contaminant Mitigation
- Utility Management

SUPPORTING OUR COMMUNITY



Through our Carollo Cares program, we expose young people to the marvels of science, technology, engineering, and mathematics. We reveal the diverse array of career paths and how STEM is changing the world. We help young people see themselves pursuing these paths and empower them to take the steps to get there.

For more information about Carollo Cares, go to:
carollocares.com

Recognition—What our Clients are Saying!

“Carollo Engineers has been responsive to the City during episodes of non-compliance at the plant facilities. They consistently bring various options for solutions to the compliance issues. Carollo provides study and design proposals in a timely fashion and schedules are consistently met.”

Eric Smith, Deputy Director
Utilities, City of Daytona Beach

“The Town of Longboat Key appreciates the project management and construction expertise from Carollo Engineers related to our primary wastewater force main. Their team approach has helped the Town navigate through a complex permitting process for a replacement force main under Sarasota Bay as well as support the Town through a major repair and rehabilitation effort for a mainland portion of the line.”

Isaac Brownman, Director
Town of Longboat Key Public Works

“Carollo is a fantastic firm to work with and we continue to utilize their skills on our most critical projects.”

Eric Smith, Deputy Director, Utilities,
City of Daytona Beach

“Their work on the project was exceptional both from the technical standpoint where their membrane design achieved a sustainable 93% recovery, and from the managerial standpoint, keeping the project on track and meeting all of our needs, expectations and preferences.”

Rafael Terrero, PE, BCEE, MASCE, Former Assistant Director
Miami Dade Water and Sewer Department

“The Carollo team has provided superior engineering services. During challenges at startup, the Carollo team handled the issues professionally and focused on solutions that ultimately benefited the City. I can count on Carollo to complete work within budget and with a high level of quality.”

Christopher R. Schlageter, CGC Project Manager, Engineering Division,
City of Pompano Beach

“Based on our long history with Carollo and their key staff, we have confidence that they will bring the same level of service and quality to any project they work on.”

Charles “Tad” Parker
Orange County Utilities

“In my work with Carollo on both of these projects, I have found them to consistently demonstrate strong management skills, produce timely and high-quality deliverables, present thorough progress reports to boards and advisory committees, and to always be responsive to project and stakeholder needs.”

Stephen James
Polk Regional Water Cooperative

iii. Ten client references for whom Carollo has provided professional services similar to those specified in this RFQ in the past five years.

Client	Contact	Dates of Service/Scope
a. City of Delray Beach b. Juan Guevarez, PE Assistant Utilities Director	c. guevarezj@mydelraybeach.com d. 434 S. Swinton Avenue Delray Beach, FL 33444 e. 561-243-7305	f. Start date: 2018 / End date: Ongoing g. Scope: Planning, design, and construction-phase services under the continuing engineering services contract for water and wastewater projects.
a. City of Boynton Beach b. Poonam Kalkat Utility Director	c. guevarezj@mydelraybeach.com d. 100 East Boynton Beach Boulevard e. Boynton Beach, FL 33435 f. 561-317-6085	g. Start date: 2014 / End date: Ongoing h. Scope: Planning, design, and construction-phase services under the continuing engineering services contract for water and wastewater projects.
a. Town of Longboat Key b. Isaac Brownman Director of Public Works	c. lbrownman@longboatkey.org d. 600 General Harris Street e. Longboat Key, FL 34228-1412 f. 941-316-1988	g. Start date: 2022 / End date: Ongoing h. Scope: Planning, design, and construction-phase services under the continuing engineering services contract for water distribution and wastewater collection system projects.
a. City of Cocoa b. Donnie Howard SFO/WFP Manager	c. dhoward@cocoafl.org d. 351 Shearer Blvd. e. Cocoa, FL 32922 f. 321-433-8800	g. Start date: 2020 / End date: Ongoing h. Scope: Sewer Field Operations and Division support for assessment information management, quality control process development, SCADA maintenance, manhole and gravity sewer rehabilitation, and force main assessment.
a. City of Oviedo b. Bobby Wyatt, PE Public Works Director	c. bwyatt@cityofoviedo.net d. 400 Alexandria Boulevard e. Oviedo, FL 32765 f. 407-971-5648	g. Start date: 2017 / End date: Ongoing h. Scope: Planning, design, and construction-phase services under the engineering services contract for water and wastewater projects.
a. City of Cocoa b. Katie Ennis, PE Deputy Utilities Director	c. kennis@cocoafl.org d. 65 Stone Street e. Cocoa, FL 32922 f. 321-433-8722	g. Start date: 2020 / End date: Ongoing h. Scope: Planning, design, and construction-phase services under the engineering services contract for wastewater collection, treatment and disposal systems.
a. Collier County Utilities b. Ben Bullert Interim Principal Project Manager	c. Benjamin.bullert@colliercountyfl.gov d. 3339 Tamiami Trail East, Suite 305 e. Naples, FL 34112-5361 f. 239-252-2583	g. Start date: 2008 / End date: Ongoing h. Scope: Contract includes water treatment related projects such as a high-pressure reverse osmosis pilot study and design, controls and SCADA upgrades filter improvements, real time modeling, water quality studies, and construction management.
a. Manatee County b. Kevin Morris Deputy Director for Wastewater	c. kevin.morris@mymanatee.org d. 1022 26th Avenue East e. Bradenton, FL 34208-7333 f. 941-792-8811 ext. 5244	g. Start date: 2014 / End date: Ongoing h. Scope: Engineer of record services for utilities studies, permitting, condition assessments and evaluations, feasibility studies, and reports related to the planning and operation of treatment facilities and distribution and collection systems.
a. City of Daytona Beach b. Eric Smith, PE Deputy Director	c. smitheric@codb.us d. 3651 LPGA Boulevard (32124) e. Daytona Beach, FL 32115-2451 f. 386-671-8829	f. Start date: 2007 / End date: Ongoing g. Scope: Planning, design, and construction-phase services under the continuing engineering services contract for water and wastewater projects.
a. City of Winter Springs b. Phil Hursh Interim City Manager	c. phursh@winterspringsfl.org d. 400 Old Sanford Oviedo Road e. Winter Springs, FL 32708 f. 407-327-7591	f. Start date: 2018 / End date: Ongoing g. Scope: Planning, design, and construction-phase services under the continuing engineering services contract for water and wastewater projects.

iv. Proposed key personnel.

Qualifications of the Team and Specialty Expertise

Successful completion of your anticipated work authorizations is about more than the design firm. More important to the effort are the team members who will be delivering your work. Our team includes seasoned project delivery design specialists, each with a key role to meet the technical requirements of your projects. **Our key team resumes are on the following pages. Please see the SF330 in Chapter 3, for our full team qualifications.**

a. Key Personnel	b. Role	Years of Experience	Scope of Work					
			Water Treatment	Pump Stations	Storage Reservoirs	Water Supply Wells	SE Florida Regulatory Issues	Design, Permitting, and CM
Liz Fujikawa, PE, BCEE, LEED AP	Project Manager / Client Service Manager	40	✓	✓	✓	✓	✓	✓
Tung Nguyen, PE, PMP	Project Manager/Chemical Feed	16	✓	✓	✓	✓	✓	✓
Dan Garcia, PE, ENV SP, LEED AP	Project Manager	26	✓	✓	✓	✓	✓	✓
Bob Cushing, PhD, PE, BCEE	Technical Advisor/Q&A	40	✓	✓	✓	✓	✓	✓
Brandon Yallaly, PE	Technical Advisor/Q&A	27	✓	✓	✓	✓	✓	✓
Vinnie Hart, PE, ENV SP, LEED AP	Technical Advisor/Q&A / Lime Softening / Ion Exchange	32	✓	✓	✓	✓	✓	✓
Eva Steinle-Darling, PhD, PE	PFAS Compliance	39	✓			✓	✓	✓
Sandeep Sethi, PhD, PE	Nanofiltration	27	✓	✓	✓	✓	✓	✓
Scott Richards, PE	Water Mains	22	✓	✓	✓	✓	✓	✓
Leo Pou	Operator Training and Operations	27	✓	✓	✓	✓	✓	✓

c. Key Personnel Resumes:



YEARS EXPERIENCE

40 Years

LICENSES

Professional Engineer,
Florida License #72860

EDUCATION

MSE, Environmental
Engineering

BS, Chemistry

Liz Fujikawa, PE, BCEE, LEED AP

PROJECT MANAGER / CLIENT SERVICE MANAGER

Liz has served in roles ranging from project manager, technical specialist, to principal-in-charge for municipal clients. Her experience includes studies through construction management for projects with capital construction costs of up to \$240 million, including two of the United States' largest treatment plants, including Chicago's Jardine Water Plant (1,000-mgd) and the Metropolitan Water Reclamation District of Greater Chicago's Stickney Water Reclamation Plant (1,200-mgd).

PROJECT EXPERIENCE

- Water Treatment Plant Operational Assistance and 4-Log Baffle System | City of Delray Beach, FL | Principal-in-Charge/Project Manager.
- Design and Construction Management of Filter Improvements | City of Delray Beach, FL | Principal-in-Charge/Project Manager.
- Membrane Treatment System Improvements | City of North Miami Beach and NMB Water, FL | Technical Advisor.
- East Wastewater Treatment Plant Conversion of the Aeration System to IFAS | City of Margate, FL | Client Service Manager.
- Evaluation of Long-Range Treatment by Lime Softening Versus Nanofiltration | City of Pompano Beach, FL | Project Manager.



Tung Nguyen, PE, PMP

PROJECT MANAGER / CHEMICAL FEED

Tung is a proven process engineer with experience exclusively in water and wastewater treatment plant planning, design, operations, project controls, and construction management, including design-build and design-build-operate. He is experienced in leading large, multi-disciplined, and geographically diverse teams to deliver projects across the full spectrum of services desired by water and wastewater utility clients while also being responsible for financial performance and delivery.

YEARS EXPERIENCE

16 Years

LICENSES

Professional Engineer,
Florida License #85095

EDUCATION

BS, Civil and Infrastructure
Engineering

PROJECT EXPERIENCE

- VFD and Electrical Improvements to Two Booster Pump Stations | City of Delray Beach, FL | Project Manager.
- Phosphate/Ferric Storage Tank Replacement Design | City of Delray Beach, FL | Project Engineer.
- Four-Log Disinfection Condition Assessment and Design | City of Hollywood, FL | Project Manager/Design Engineer.
- Reverse Osmosis and Membrane Piloting and Conceptual Design | City of Hollywood, FL | Project Manager/Design Engineer.
- Reverse Osmosis and Membrane Piloting and Conceptual Design Project | Miami Dade County Water and Sewer Department, FL | Project Engineer.



Dan Garcia, PE, ENV SP, LEED AP BD+C, PTOE

PROJECT MANAGER

Daniel is a seasoned water, wastewater, and resilience engineer with experience in master planning, large utility rehabilitation, and urban/residential civil projects. His background includes project finance, and a recent focus on complex and critical infrastructure projects to harden infrastructure and improve resilience of communities. His multidisciplinary career path has provided him with a deep understanding of civil infrastructure projects allowing him to add value at all levels of the project life cycle, from project kick-off to project delivery, close-out and handover.

PROJECT EXPERIENCE

- 4-Log Disinfection Condition Assessment and Design | City of Hollywood, FL | Project Manager/Design Engineer.
- High Service Pump Station Rehabilitation | City of Hollywood, FL | Project Manager/Design Engineer.
- Water and Sewer Integrated Master Plan | Miami Dade County Water and Sewer Department, FL | Project Manager.
- East and West Steel Elevated Storage Tank Inspections | City of Hollywood, FL | Project Manager/Design Engineer.
- Design-Build Palm and Hibiscus Islands Right-of-Way Infrastructure Improvements | City of Miami Beach, FL | Design Project Manager.

YEARS EXPERIENCE

27 Years

LICENSES

Professional Engineer,
Florida License #62299

EDUCATION

MBA, International Finance
and Global Business

MS, Civil Engineering

BS, Civil Engineering



Bob Cushing, PhD, PE, BCEE

TECHNICAL ADVISOR & QA/QC

Bob has 40 years of experience in applied environmental science and engineering. Throughout his career, he has coupled fundamental concepts with sound engineering practices to provide creative, innovative, and enduring solutions to challenges faced by water and wastewater utilities. He has been responsible for numerous successful treatment facility planning and design projects, as well as studies and programs for improving distribution system water quality.

YEARS EXPERIENCE

40 Years

LICENSES

Professional Engineer,
Florida License #34232

EDUCATION

PhD, Civil Engineering

MS, Civil Engineering

BS, Petroleum Engineering

PROJECT EXPERIENCE

- Ion Exchange (MIEX) Project | City of Boynton Beach, FL | Technical Advisor.
- South County Regional Water Treatment Plant Filter Media Replacement | Collier County, FL | Principal-in-Charge.
- Hialeah-Preston Water Treatment Plant | Miami-Dade County Water and Sewer Department, FL | Technical Advisor.
- North Lee County Water Treatment Plant RO Expansion to 15-mgd | Lee County, FL | Principal-in-Charge.
- Nanofiltration Water Treatment Plant Expansion from 2.5 to 9.6-mgd | City of Palm Coast | Principal-in-Charge.



Brandon Yallaly, PE

TECHNICAL ADVISOR & QA/QC

Brandon has 27 years of experience. His expertise is in all areas of membrane water treatment plant design, including membrane softening, reverse osmosis, micro/ultrafiltration, and concentrate disposal. He has executed all phases of membrane related projects, including process selection, conceptual design, pilot testing, detailed design, and construction-phase, and startup services. He has executed process and detailed designs implementing lime softening and ion (anion) exchange processes.

YEARS EXPERIENCE

27 Years

LICENSES

Professional Engineer,
Florida License #60307

EDUCATION

MS, Environmental
Engineering

BS, Environmental
Engineering

PROJECT EXPERIENCE

- Design of the 125-mgd (Expandable to 165-mgd) Nanofiltration Process Water Facility | Miami-Dade Water & Sewer District, FL | Project Engineer.
- High Pressure Reverse Osmosis Demonstration Study | Collier County Utilities | Project Engineer.
- Reverse Osmosis (RO) System Design Engineer for the 6-mgd Bonita Springs RO Water Treatment Plant | City of Bonita Springs, FL | Design Engineer.
- Venice Gardens Water Treatment Facility | Sarasota County, FL | Lead Process Engineer.
- 1-mgd Ave Maria Utilities Company Membrane Softening Facility | Ave Maria Towne, FL | Lead Engineer.



Vinnie Hart, PE, ENV SP, LEED AP

TECHNICAL ADVISOR & QA/QC, LIME SOFTENING, ION EXCHANGE

Vinnie's extensive experience in water supply, treatment, and distribution makes him a valuable asset to our team. With 32 years of expertise, he has been deeply involved in planning, designing, and expanding various water facilities. His leadership and contribution in bench and pilot studies, especially in the realm of UV disinfection, highlights his commitment to innovation and improving water treatment processes.

YEARS EXPERIENCE

32 Years

LICENSES

Professional Engineer,
Florida License #96251

EDUCATION

MS, Environmental
Engineering

BS, Environmental
Engineering

PROJECT EXPERIENCE

- Sawgrass Water Treatment Plant Pilot Study, Upgrade, and Expansion | City of Sunrise, FL | Process Engineer.
- Dean Water Treatment Plant Softener Rehabilitation | FKAA, FL | Project Engineer.
- Design of the Hialeah and Preston (22-mgd combined) Water Treatment Plants | Miami-Dade Water and Sewer Department, FL | Process Lead.
- 4.4-mgd Water Treatment Plant Enhancement Project | City of North Port, FL | Project Engineer.
- Water Treatment Plant No. 8 Ion-Exchange Study | Palm Beach County, FL | Technical Advisor.
- Ion Exchange Treatment System and East Water Treatment Plant Improvements Progressive Design-Build | City of Boynton Beach, FL | Technical Advisor.



Eva Steinle-Darling, PhD, PE

PFAS COMPLIANCE

Eva is Carollo's Chief Technologist for Reuse and PFAS, leading Carollo's overall efforts to support utility client response to per- and polyfluoroalkyl substances (PFAS) challenges in water and wastewater. Eva also brings a robust background in treatability evaluation, regulatory approaches, and guidance development, particularly with respect to constituents of emerging concern in potable reuse applications, where she has supported regulatory guidance efforts for six US states, the National Water Research Institute, and the World Health Organization.

YEARS EXPERIENCE

21 Years

LICENSES

Professional Engineer,
Texas

EDUCATION

PhD Civil and Environmental
Engineering

MS Civil and Environmental
Engineering

BS Chemical Engineering

PROJECT EXPERIENCE

- Regional Water Quality Study | Tampa Bay Water, FL | Lead CEC and PFAS Advisor.
- Project 4913: Investigation of Treatment Alternatives for Short-Chain Poly and Perfluoroalkyl Substances (PFAS) | The Water Research Foundation | Project Advisory Committee Member.
- Investigation of Alternative Management Strategies to Prevent PFAS from Entering Drinking Water Supplies and Wastewater | The Water Research Foundation | Principal Investigator.
- PFAS Treatment Systems Planning Study | Orange County Water District, CA | Technical Advisor.
- PFAS Treatment Alternatives and Implementation Plan | City of Pleasanton, CA | Technical Advisor.



Sandeep Sethi, PhD, PE

NANOFILTRATION

Sandeep is a chief technologist with Carollo and a nationally known expert in water quality and treatment. He has over 30 years of experience, during which he has provided high-value solutions to clients in the planning, evaluation, design, and implementation of numerous treatment technologies and facilities. He has executed and managed dozens of projects, several of which include design and construction of large multi-million dollar facilities, and complex pilot/demonstration testing programs, involving multiple stakeholders.

YEARS EXPERIENCE

31 Years

LICENSES

Professional Engineer,
Florida License #72562

EDUCATION

PhD Environmental Science
and Engineering

MS Environmental Science
and Engineering

BS Civil Engineering

PROJECT EXPERIENCE

- Basis of Design and Preliminary Design for Norwood-Oeffler Water Treatment Plant | City of North Miami Beach, FL | Project Engineer.
- Brackish Groundwater Wellfield and RO Facility | Peace River Manasota Regional Water Authority, FL | Project Manager.
- David L. Tippin Water Treatment Facility Master Plan Design-Build | City of Tampa, FL | Technical Advisor.
- 6.25-mgd Water Treatment Plant RO System Improvements | City of Clearwater, FL | Project Manager.
- Water Desalination Concentrate Management and Piloting | South Florida Water Management District (SFWMD) | Project Director and Principal Investigator.



Scott Richards, PE

WATER MAINS

Scott has 22 years of industry experience completing numerous projects throughout the state of Florida. He serves as a client service manager, project manager, and technical lead. His broad background of projects for municipal clients includes planning, design, permitting, and construction of treatment, conveyance, and collection systems including the design of new systems and the replacement/rehabilitation of existing systems. He is a hands-on engineer who specializes in pump stations and water transmission/distribution systems.

YEARS EXPERIENCE

22 Years

LICENSES

Professional Engineer,
Florida License #71505

EDUCATION

BS Mechanical Engineering

PROJECT EXPERIENCE

- Mims Water System Pipeline Improvements | Brevard County, FL | Project Manager.
- Lake Highland Water Supply Wells and Piping Design | Orlando Utilities Commission, FL | Principal-in-Charge.
- Market Street Water Distribution Upgrades | City of Lake Wales, FL | Project Engineer.
- Taft/Sheridan Street Area Water Distribution Improvements | City of Hollywood, FL | Project Engineer.
- Brennan WTP Discharge Header | City of Daytona Beach, FL | Lead Design Engineer.
- Subaqueous Force Main Permitting and Conceptual Design | Town of Longboat Key, FL | Project Manager/Design Engineer.



Leo Pou

OPERATIONS

Leo joined Carollo after serving as the assistant division director in the Wastewater Division for the Miami-Dade Water & Sewer Department (WASD). Leo has 40 years of experience water and wastewater industry, including asset management, conceptual design planning, operational/constructability reviews, process trouble shooting, risk management plans, peak flow, personnel management, commissioning and startup, standard operating procedures development and implementation, and staff training.

YEARS EXPERIENCE

40 Years

LICENSES

Class A Wastewater Operator,
Florida License #0009424

EDUCATION

AA, Mechanical Engineering

PROJECT EXPERIENCE

- Utility-Wide Operations and Capital Improvements, Federally Mandated Consent Decree, and State Ocean Outfall | Miami-Dade Water & Sewer Department (WASD), FL | Assistant Division Director.
- Reverse Osmosis Water Treatment Plant Maintenance and Operation | Baxter Diagnostics, Miami, FL | Operations Treatment Plant Specialist.
- Machinists Mate First Class | US Navy | Operations Specialist.

The background is a grayscale photograph of a construction site. In the foreground, a person's hands are visible, typing on a laptop keyboard. Another person's hand is pointing at a tablet or document next to the laptop. In the background, a white hard hat sits on a wooden surface. The entire image is overlaid with a semi-transparent blue design consisting of horizontal wavy lines at the top and a solid blue horizontal line across the middle.

CHAPTER

4

Proposal Response Requirements Information

B. Approach to Project Management

B. Approach to Project Management

i. Methodology and Approach

Needs, Goals and Objectives and Overall Approach to Work

We are very familiar with continuing services contracts, in fact, many of our contracts in south Florida are based on that contracting mechanism. Continuing services contracts typically require a broad spectrum of expertise consisting of subject matter experts that establish the right solutions for your needs, supported by local staff who can deliver the work. We also know that there may be many emergency tasks that need to be responded to on the same day, and those tight schedules are met because we will deliver your work from our West Palm Beach office.

Goals and Objectives

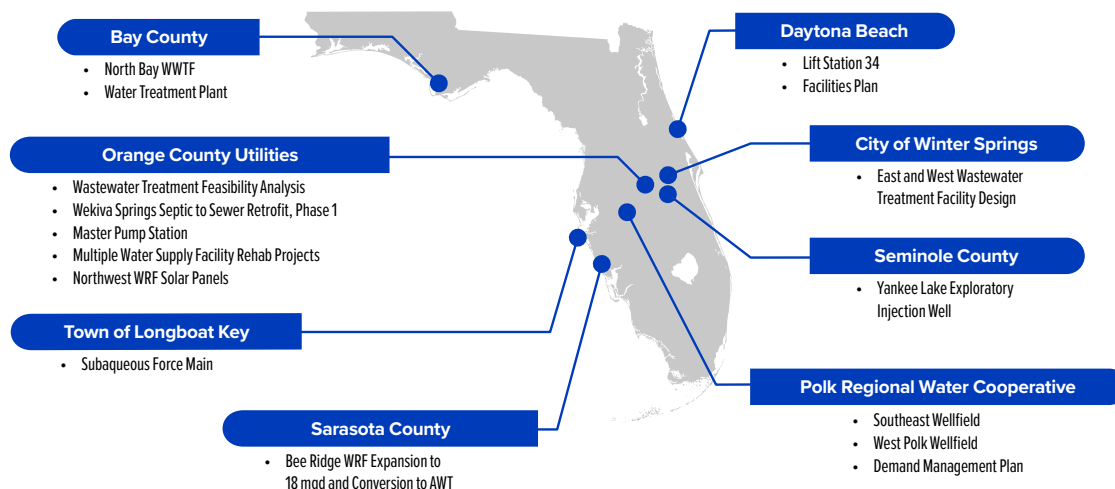
Fundamental to the successful delivery of services to the City is to first understand your goals and objectives for each particular project, along with any impacts the work will have on other planned improvements. Regardless of whether the goal is to complete a planning study, a detailed evaluation of the process and non-process systems, alternatives development and screening, or detailed design, we will listen closely to you to make certain we understand the task at hand.

We anticipate that our services under this contract will help the City with miscellaneous goals and objectives such as:

- 1. Maintain Reliability of Existing Systems:** Like all Utilities, the City is faced with the need to upgrade systems that are reaching the end of their useful life, such as electrical systems, chemical feed systems, and control systems.
- 2. Meet Capacity Needs:** Although the rate of growth within the City is not extreme, there are still areas that are undergoing redevelopment resulting in the need for capacity increases in areas such as the water treatment plant, pumping stations (potable and collection system), and distribution and collection system piping.
- 3. Reduce Operational Costs by Optimizing Existing Systems:** This area will include optimizing existing systems to reduce operational costs (chemicals, energy and labor).
- 4. Relieve Pressure on Rate Increases through Grant Funding:** We understand the need to maximize the procurement of grants to fund need improvements. Further, the management of grant reporting can be time consuming, and we are experienced with that.

Funding Projects

Carollo has helped Florida clients obtain a total of **\$815 M in funding assistance** for a broad spectrum of projects.



Our experience shows that maximizing success for grant procurement heavily relies on developing and following a planned strategy rather than simply submitting an application.

Overall Approach to Work

Our overall approach to work is highlighted in the following areas described below.

Plan the Work and Work the Plan

Our approach to accepting specific projects begins with a conversation between our client services manager, Liz Fujikawa, and appropriate City staff. Based on that discussion, Liz will assign the appropriate Project Manager and the right Carollo talent for the assignment and work with City staff to develop a detailed scope and budget.

Our overall approach to delivering specific projects will differ depending on the nature of the assignment, but will center around **four key concepts for delivering highly successful projects:**



Reading between the lines of your requests and fostering true teamwork between your staff and ours are essential to a project's success. Achieving this requires effective communication—both in our day-to-day interactions between the City and Carollo project managers and through regular opportunities for collaboration that we build into our projects.

- **Engage all key project stakeholders early and develop consensus on all critical project elements.** Carollo will work closely with City personnel during projects. We will function as an extension of your staff to address project elements. We anticipate open and frank discussions during meetings. This “early and often” interchange of ideas will assure that only the alternatives that have technical merit, are operator friendly, low maintenance, and cost-effective will be considered. Having you involved allows us to benefit from your knowledge, makes sure we get it right the first time, and allows you to get exactly what you want and need.
- **Apply a dedicated “Design Team” approach as opposed to “Design Center” approach.** The core project delivery team will remain consistent and dedicated to each City assignment from development of the scope of work through training and start-up. The same engineer who develops a design concept for our scope will work with your staff to refine that concept through detailed design; that same engineer will respond to related contractor RFIs and will inspect construction and work with your operations staff through training and start-up. The continuity of service offered by this design team approach offers many advantages over a design center approach, including:
 - » Design development is more rapid and accurate when performed by a dedicated design team.
 - » Errors and omissions are often associated with “hand offs” in a Design Center and are eliminated using a Design Team.
 - » Design intent is maintained through construction. The original design engineer is best suited to make critical decisions regarding alternatives suggested during construction, weighing potential cost savings with functionality.
 - » The original design engineer who worked from conceptual through construction is best positioned to assist with start up and training.
 - » All of these benefits of the design team approach reduce cost and improve quality. These benefits are strictly lacking in a “design center” approach. In fact, there is little or no benefit to an owner associated with a design center project delivery approach.
- **Apply a proven approach to process design and optimization.** We will evaluate alternatives and explore ways to maximize use of existing infrastructure using our process optimization approach. This approach includes the use of sound principles instead of relying on rules-of-thumb or “textbook” values that often result in “over” or “under” designed facilities. Our proven approach has been used successfully at many other facilities where it has saved the client money while optimizing treatment capacity.
- **Produce highly refined plans and specifications.** At Carollo, our roots are in “nuts and bolts” water and wastewater plant design. We have many clients who have adopted our CADD standards and others who insist that Carollo produce the plans and specifications for their projects. The clarity of concept and level of detail for Carollo plans and specifications translates to lower bids by allowing contractors to reduce their contingencies.



Carollo has rigorous procedures for project management. These procedures are time tested and used on all our projects. **That consistency contributes to the success of our ability to maintain schedules and budgets.**

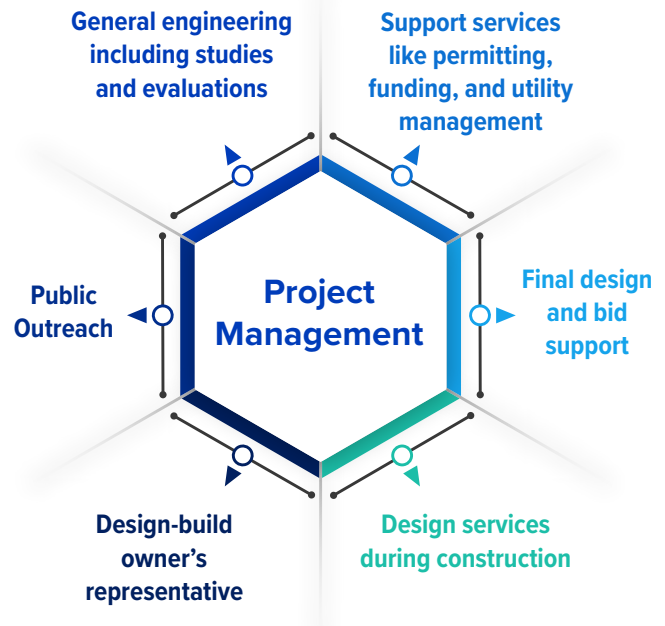
Delivering a Quality Product

Careful quality control in our technical products is only one way that we have continued to bring our clients excellent service. Control of construction costs starts with those technical products, which set the table for what happens during construction. Data taken from 25 of our recent large projects, with a total construction cost of more than \$225 million, showed change orders totaling less than 1.5 percent (which includes owner-initiated additions to the projects), compared to an industry average of 4 to 5 percent.

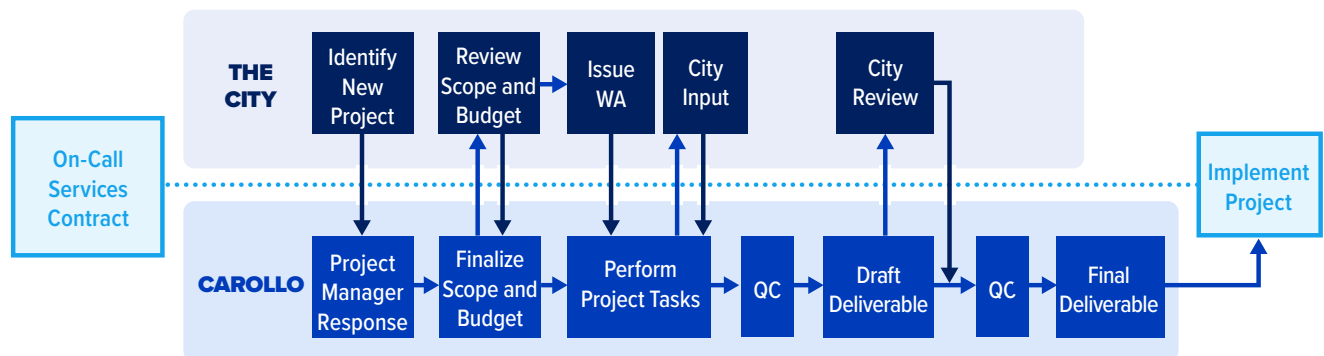
Before a project begins, the project manager is responsible for preparing a project checklist. This form lists various project steps and guides the project team to identify the quality management steps and to document their completion. The checklist helps confirm that the project follows our quality management procedures.

Some of the areas we include in our quality management checklist are:

- **Pre-Contract Planning.** Before a proposal is submitted or a contract is signed, we plan how we will complete the work. This includes understanding the project goals, selecting the project team, developing or refining the project scope, and establishing a budget that adequately reflects the level of service requested and expected by the client. Contracts are reviewed internally, prior to being executed, and two signatures are required, with one of these signatures coming from a senior manager in the firm.



- **Special Requirements.** Special requirements that can impact the project are identified. This can include special permits and regulatory approvals that could affect schedule, teaming arrangements, project delivery issues, or any other issue that is not normally part of our project procedures.
- **Work Plan.** A work plan is developed for each project. The work plan establishes the work sequence effort, when work needs to occur within the project schedule, meeting times, discussion topics at the meetings, key decisions that need to be made, and the project deliverables.
- **Project Management Plan.** The project management plan includes lines of communication, schedule, scope, budget, staffing plan, and special requirements. The project management plan is distributed to the entire design team.



- **Specific Project Checks.** Projects receive a series of reviews at various project points. These include a concept review at the 10-percent level, a peer review at the 10- to 25-percent level, owner review at set milestones, constructability reviews (for design projects only) at the 50- and 95-percent levels, and a detailed check at the 90-percent level.
- **Independent Final Checks.** Senior engineers who have not been involved in the final deliverable of the project provide an internal review. The deliverable is “red-lined” using established checking procedures. The check includes an inter-discipline review. As applicable, a final cost estimate is prepared using our established methodology.
- **Quality Control Tools.** Carollo developed a number of design aid manuals. These manuals are maintained both as hard copies and on our intranet. These documents are regularly used on our projects to provide a consistent approach to quality management.

Carollo utilizes the same standards and practices for every project we undertake, whether it is a small study or the most complex design project.

QUALITY MANAGEMENT PLAN

- Establishes procedures for a successful and quality project
- Includes both Program Level Quality Assurance and Project Team Quality Control
- Will be confirmed with you at the start of the project



QUALITY ASSURANCE

- Conducted proactively as the project progresses
- Independent peer reviews to address critical issues
- Early engagement of experts
- Conducted in early stages to avoid rework



RESULT

Achieves a systematic approach to eliminate gaps and avoid rework



QUALITY CONTROL

- Quality checks prior to submittals
- Internal QC workshops prior to major submittals
- Independent QC team



RESULT

Provides high-quality deliverables that minimizes errors

Quality services and deliverables at all project stages for a successful project outcome.

ii. Personnel and Project Team

Carollo understands the key technical challenges of your projects and as such, has hand selected **individuals that are uniquely qualified** to address the wide variety of issues that may arise—some of your most pressing issues.

Why Carollo **is the Right Team**

The qualifications and experience of your consultant team is a critical factor in the successful outcome of your projects. With that in mind, we are proposing a “tried and tested” project team that brings recent direct experience on similar projects. The City also needs a team that provides “ease-of-workability” with technical know-how.

“Ease-of-workability” is a catch-all term for the issues you will face while working with the selected team over the course of the project. These are the individuals you will have to work with routinely, often on a day-to-day basis, over the life of the project. Our proposed team consists of people working with you now—and they are committed to seeing your project through to fruition working collaboratively with you. Perhaps of greatest importance, is that our team members already have a personal connection with City staff and your facilities. That connection gives us that “extra investment” and drive for success.

Delivery of a successful project will be directly determined by the quality and nature of the individuals on the team you select. The collaborative working style of our team is somewhat unique, but important to achieve the schedule and quality that is required on this contract.

In addition to Carollo’s key staff, we have included local, specialty subconsultants some who have worked seamlessly as part of Carollo’s team on many local projects over the years. These subconsultants have superior expertise and share Carollo’s commitment to quality deliverables and responsive service. Our subconsultants firm profiles are included below. The Carollo team will provide the capabilities needed to successfully deliver your projects.



**ADS
Engineering, Inc.**
Electrical

ADS ENGINEERING, INC., has been in business since 2007 and has an engineering team which includes members with more than 25 years of experience. ADS Engineering’s core business is electrical, instrumentation and control engineering, design, analysis, construction management and programming services in various industries and specialized in water and wastewater industry. Services provided range from electrical and instrumentation project design, control application programming, to project management, consulting, programming, training, and support. Design services include power, control, instrumentation, telemetry, start up construction services, and PLC/computer programming. ADS Engineering brings optimized solutions to the fields of water management, industrial process control, and process management.



**Craig A. Smith
& Associates**
Surveying / SUE

CRAIG A. SMITH & ASSOCIATES has been providing surveying and mapping services since 1980. CAS retains numerous continuing services contracts which include surveying for a number of municipal clients throughout South Florida. Services under these contracts include route/engineering surveys, boundary surveys, sketch and legal descriptions for various easements (i.e. utilities, roadway, ingress/egress, canals, stormwater treatment areas (STAs), FPL, telecommunications) preparation of property surveys construction stake out, surveying services for as-built drawing preparation for the construction of various utility (water, wastewater, reclaimed water), road and drainage improvement projects, and subsurface utility engineering along with other miscellaneous surveying services. CAS’s survey crews have performed surveying services for thousands of miles of water utility distribution and wastewater collection system improvement projects.

JLA Geosciences, Inc.
HYDROGEOLOGIC CONSULTANTS

JLA Geosciences, Inc.

Production Well Evaluation

JLA GEOSCIENCES has provided clear solutions for their clients based on their in-depth knowledge of hydrogeology, water supply development, environmental evaluation, and wastewater disposal. JLA's twenty-year success has been largely due to absolute "hands on" data driven approach they take to every project. JLA's team of skilled professionals have the experience to make the right choices when and where it is needed. On site, because hydrogeology is primarily a field science.

JLA's water supply related experience includes work at many wellfields of all types throughout Florida, other states in the eastern US, Bermuda, Bahamas, and the Caribbean. For more than two decades, JLA has worked on a wide variety of water resource projects, from groundwater flow and transport modeling to wastewater disposal and deep injection well services. JLA is committed to providing unparalleled hydrogeologic expertise and creating tailored, site-specific solutions to meet client's needs.

Specialty Subconsultants

Carollo has assembled a group of specialty subconsultants known for their technical expertise, experience, service quality, and reliability. Many of these firms are local and are invested in the local community.

Engaging Resources: Project Staffing

Proper staffing is key to successful projects. Our fundamental approach is to assemble the best-qualified team to match the project requirements. We then review the scope of the project and review staffing levels and budgets from similar projects to estimate labor requirements to complete a project.

The project schedule has a significant impact on staffing planning. Project milestones are identified and labor hour requirements per task are estimated to determine staffing levels to complete the task by the milestone date. The staffing levels are broken down by discipline to determine overall office personnel planning. A database on staffing needs and current staff assignments is maintained and updated monthly, both company-wide and in our local office. The database allows us to project workloads and identify when and if staff becomes over or under committed.

A labor-hour estimate is made for each task in the Scope of Work. The estimate includes time for site visits and meetings, as well as in-office engineering work for the project. We then use historical data, modified for project-specific requirements, to estimate the types of services and personnel classifications to complete each task. For



Terracon Consultants, Inc.

Geotechnical Engineering

Since its founding in 1965, **TERRACON** has grown and evolved to become a thriving, employee-owned, multi-discipline engineering consulting firm. Terracon's more than 6,000 curious minds include engineers, scientists, architects, facilities experts, and field professionals focused on solving engineering and technical challenges from more than 175 locations nationwide including an 11-office Florida network. On-time and real-time data-driven insights, provided by talented employee owners, create an unmatched client experience that spans the life cycle of any project from earth to sky.

Designing and constructing reliable foundations and infrastructure requires a thorough understanding of soil, rock, and groundwater conditions. Through Terracon's nationwide network of geotechnical professionals, access to historical subsurface exploration data from thousands of locations across the country, and GIS-enabled geology mapping, they can accurately anticipate ground conditions and develop the right work plan to explore a site. Their innovative technologies and collaborative approach allow them to provide practical design recommendations.

example, our historical records indicate that a typical project design will be about 55 percent professional staff, 40 percent design technicians, and 5 percent clerical.

We combine this staffing effort with our project planning, monitoring, and reporting procedures so that each project has adequate resources to meet the project schedule.

No Surprises: The Emphasis is on Teamwork and Communication

Our most direct way to communicate will be by meetings with the affected stakeholders, often including subconsultants, other utilities, contractors, and/or regulators. Regular progress meetings are scheduled. An agenda is prepared. We typically forward the agenda in advance so that staff are made aware of the issues to be discussed and the people required to make the necessary decisions can be in attendance. Meeting notes are prepared for each meeting to document decisions made. Items documented in the meeting notes would include:

- Attendees
- Meeting time, date, and location
- Record of discussion
- Project status
- Decisions made
- Action Items
- Outstanding issues

We also anticipate meeting on a more frequent and informal basis with project team members, as required, to assist in the decision-making process. We would schedule informal meetings through your project manager to maintain proper communication channels.

Our Industry Leadership

During our 91-year history, Carollo has successfully completed tens of thousands of projects for the public sector. Unlike the majority of our competitors, we exclusively provide services supporting water and wastewater utilities. We focus on the water/wastewater industry, fostering a reputation for leadership and innovation. Our leadership role is exemplified by:

- **First engineering firm in the waterworks industry to apply computational fluid dynamics.** The groundbreaking application was optimization of the hydraulic characteristics of an ozone contact chamber. This technology, initially developed by the aerospace industry, is now commonly used by most national engineering firms to eliminate short circuiting and identify non-laminar flow conditions.
- **Pioneered the use of UV irradiation for drinking water treatment** via multiple research projects with WaterRF and construction of the first full-scale UV validation facility in North America.
- **First engineering firm to incorporate micro- or ultra filtration in conjunction with lime softening treatment.** This concept was pioneered by Carollo and tested on pilot scale operations in the Midwest. Full-scale, award winning facilities now employ this exciting technology, now being utilized by numerous other clients seeking superior water quality at an affordable price.
- **Carollo developed the use of biological active filtration** for the removal of a host of compounds from drinking water supplies, including nitrates, MIB and geosmin, pharmaceutical compounds, perchlorate, and a host of other contaminants. Several pilot testing programs are now underway and full-scale facilities being designed to incorporate these customized removal technologies at vastly reduced cost when compared to alternative treatment technologies, such as RO treatment.
- Over the last 10 years, **Carollo has consistently led the industry with the most number of papers accepted for presentation at national conferences** (i.e., AWWA, ACE, WEFTEC), and has consistently been in the top three regarding number of papers presented. Our leadership in the industry has also been recognized with the award of several WaterRF, WaterReuse Foundation, and Water Environment Federation research projects.



iii. Willingness to Meet Time and Budget Requirements

Staying on Schedule

Schedules are established by identifying project milestones and determining when each task must be complete to meet the milestone dates. The schedule is reviewed to determine staff requirements to complete the project on schedule. If a project is needed on a fast-track, more staff are assigned than for a project with a longer schedule.

Each month, our project manager will assess the percent complete for the project. The percent complete is estimated on a per-task basis, in a defined manner, and is done independently of budget review. Budget status is not provided to the project manager until after the percent complete has been estimated.

The estimated percent complete is compared to the planned percent complete to determine if the project is on schedule. If the project is not on schedule, staffing adjustments or other corrective measures are implemented.

Tracking Progress to Stay on Budget

Twice each month, each project manager is provided a record of labor hours charged to each job. Using the cumulative hours, percent of budget used is calculated and plotted on the project S-curve. The “S” curve is a graphical illustration of the project plan, showing how the project will be completed on time and within the labor-hour budget.

The project manager can then assess the following:

- Are percent complete and percent budget expended close to the planned curve?
- Are percent complete and percent budget expended curves parallel, converging, or diverging?
- Does the rate of progress match the budget expenditure rate?

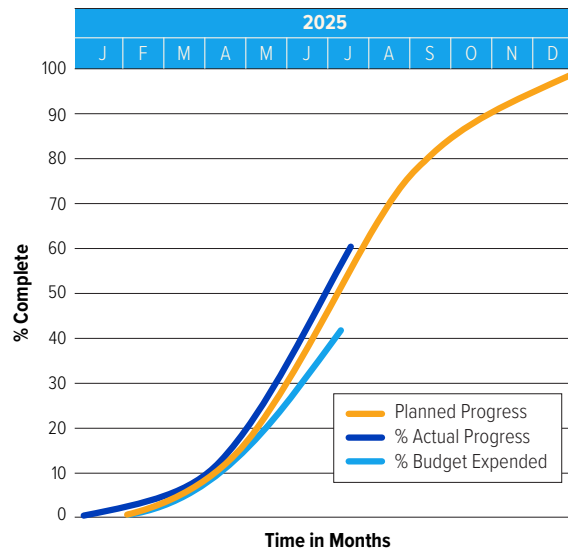
Summary reports of our progress graphically depicting this information will be shared each month with your project manager, along with a discussion of any concerns, action items, and upcoming activities.

Monthly Project Reporting

Carollo project managers routinely prepare a monthly progress report. The report addresses the following items:

- Project percent complete
- Project progress in the previous month
- Budget used
- Budget remaining
- Key decisions made in the previous month
- Items requiring decision
- Potential/actual changes in project scope

The status report is prepared as part of our monitoring of planned versus actual schedule and budget. By monitoring this information on a regular and frequent basis, potential problems are immediately identified and corrective action can be taken at the earliest possible time.



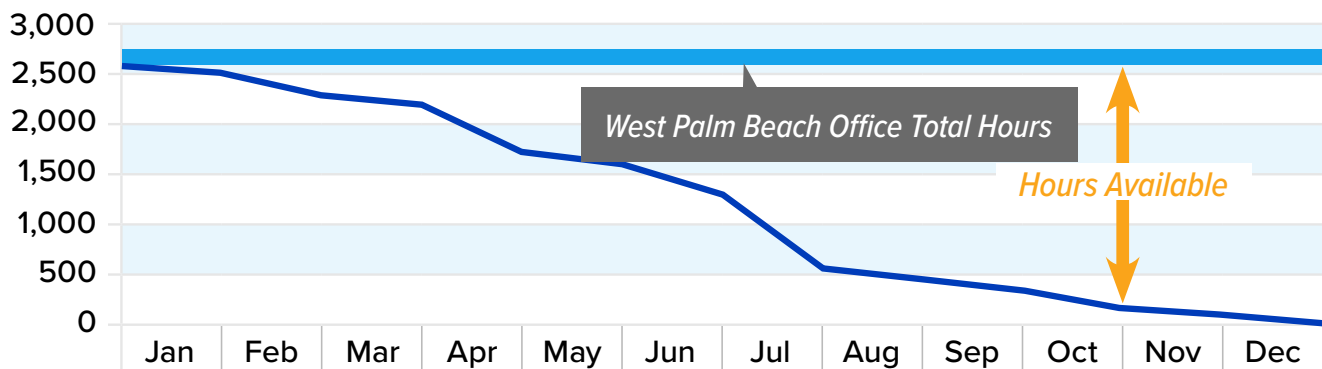
The “S” curve is a graphical illustration of the project plan, showing how the project will be completed on time and within the labor-hour budget.

iv. Workload of the Firm

Carollo is committed to providing the resources required to successfully deliver your projects. As a highly ranked national firm, Carollo has a continuous workload of hundreds of projects at any particular time, at various stages of completion from kickoff to final completion. Our firm-wide workload average commitment to active and ongoing projects generally ranges between 65 and 75%. Listed below are representative active projects for Carollo in South Florida.

Client	Project	Status	Estimated Completion
Broward County	Broward County On-call ESDC	Active	12/2024
	High Service Pumping Station and Storage Tanks	Active	9/2024
	WTP 2A Switchgear Construction Management	Active	9/2024
City of Boynton Beach	General Engineering Consultant	Active	9/2027
	Standby Power to Wells 4W, 5W, 7W, and 8W	Active	5/2025
	Asset Management Project - Phase 1	Active	9/2024
City of Pompano Beach	317 Master Lift Station Major Upgrade PDB	Active	7/2026
	General Engineering Consultant	Active	7/2027
	WTP Hurricane Hardening ESDC	Active	9/2024
City of Margate	Design and CS for WTP Electrical System - Task 3: ESDC Services	Active	7/2027
	General Engineering Consultant	Active	7/2026
City of North Miami Beach	Force Main Replacement	Active	12/2024
	Norwood-Oeffler WTP Pellet System Final Design	Active	7/2027
	5-MG Storage Tank - ESDC Services	Active	7/2027
City of Sunrise	General Engineering Consultant	Active	7/2027
	Pine Island Force Main Replacement - Construction Phase Services	Active	1/2025
	Springtree Filter Rehabilitation Design	Active	7/2026
Miami-Dade County	Central District WWTP Tertiary Treatment Upgrade	Active	12/2029
South Central Regional WWTDB	General Engineering Consultant	Active	7/2027
South Florida Water Management District	General Engineering Consultant	Active	4/2029
City of Delray Beach	General Engineering Consultant	Active	7/2026
	Chemical System and Clearwell SCADA System Upgrades	Active	12/2025
	Phosphate/Ferric Storage Tank Replacement	Active	12/2025
	VFD/Electrical Improvements to North and South HSP - Study	Active	10/2024

Carollo's 2025 Available Man-Hours



CHAPTER

4

Proposal Response Requirements Information

C. Projects for Similar Services

C. Projects for Similar Services

According to Engineering News Record, Carollo is one of the largest firms in the US focused exclusively on water, wastewater, and reclaimed water. As such, we offer a superior depth of resources and unmatched relevant experience. Our Florida practice is broad and comprehensive and includes extensive experience successfully delivering projects under contracts similar to your Continuing Engineering Consulting Services contract, including for the City of Delray Beach for the last seven years.

The table below shows a sample of on-going continuing services contracts that we currently hold in Florida. For each of these clients, we have consistently provided quality, responsive service, as demonstrated by re-selection for each upon competitive re-advertisement. Detailed descriptions of 10 example projects are provided on the following pages.

A SAMPLE OF CAROLLO'S RECENT SIMILAR EXPERIENCE IN FLORIDA

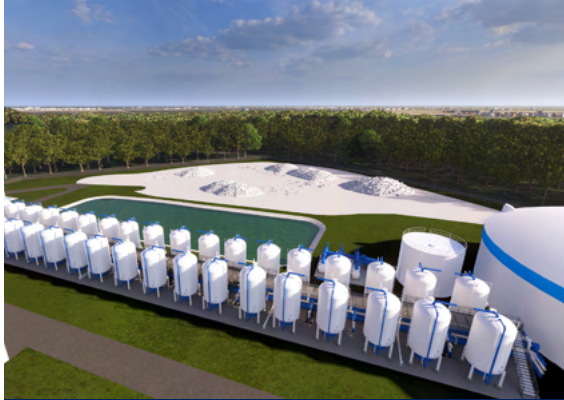
Utility	Project	Water	Wastewater	Reclaimed Water
City of Delray Beach	Continuing Engineering Consulting Services	✓	✓	
Broward County	General Engineering Contract	✓		
City of Boynton Beach	Water Treatment Plant Improvements and General Consulting Services	✓	✓	✓
City of Pompano Beach	Engineering services for Water and Wastewater Reuse	✓	✓	✓
City of Pembroke Pines	Professional Engineering/Architectural Services	✓	✓	✓
Florida Keys Aqueduct Authority	General Engineering Services	✓	✓	
Collier County	Utilities Professional Services Library	✓	✓	✓
Sarasota County	Utility Planning, Permitting, and Regulatory Compliance	✓	✓	✓
Lee County	Utilities Engineer of Record	✓	✓	✓
City of Winter Springs	Continuing Engineering Services	✓	✓	✓
Manatee County	Utilities Engineer of Record	✓	✓	✓
Sarasota County	SCADA Engineer of Record	✓	✓	✓
Hillsborough County	Bond Engineer Contract	✓	✓	✓
Orange County Utilities	Program Management for Water and Wastewater	✓	✓	✓
City of Cocoa	Engineering Services for Wastewater Collection, Treatment, and Disposable Systems		✓	✓
Pasco County	Continuing Professional Services	✓	✓	✓
Seminole County	Continuing Engineering Services Utility Improvements/Continuing	✓	✓	✓
City of Punta Gorda	Water Supply and Treatment Contract	✓		
City of Orlando	Continuing Professional Wastewater Engineering Services		✓	✓
City of Oviedo	Continuing Engineering Services	✓	✓	✓
JEA	General Engineering Services for Water, Wastewater, and Reclaimed Water	✓	✓	✓
City of Altamonte Springs	General Engineering Services for Water and Wastewater	✓	✓	✓
City of Clearwater	Professional Utilities Engineering Services	✓	✓	✓
City of Daytona Beach	Continuing Professional Engineering Services for Potable Water and Wastewater	✓	✓	✓
City of Margate	General Engineering Services for Water and Wastewater	✓	✓	✓
Town of Davie	Continuing Services Contract	✓	✓	✓
Polk County	Water/Wastewater/SCADA Continuing Services	✓	✓	✓
Toho Water Authority	Continuing Consulting Firms	✓	✓	✓
City of Sunrise	Professional Services - Water, Wastewater, Reuse, and Natural Gas Utilities	✓	✓	✓
Tampa Bay Water	As-Needed Engineering Services	✓		
Town of Longboat Key	Professional Services Library		✓	

Write-ups for **bolded contracts** are shown in Section F or our SF330 later in this Chapter.

Projects for Similar Services

As requested, below are 10 similar projects for professional services provided since September 1, 2020, demonstrating comprehensive experience in all aspects of your contract.

ROBERT DEAN WATER TREATMENT PLANT PFAS EVALUATION



RELEVANCY

- » Filtration
- » Disinfection
- » Wells
- » PFAS removal

i. Client Name and Address

Florida Keys Aqueduct
Authority (FKAA)

ii. Client Address

1100 Kennedy Drive
Key West, FL 33040

iii. Project Date (start/end)

4/2023–8/2023

iv. Status of Project

Complete

v. Scope of Work

Manatee County selected Carollo to provide the design and construction phase services for the Lake Manatee Water Treatment Plant (LMWTP) Filter Upgrade Project. The two existing surface water treatment trains at LMWTP have a capacity of 54-mgd (52-mgd net after in-plant use) and comprise biological roughing filters, coagulation, flocculation, sedimentation, and dual-media filtration, followed by disinfection/stabilization. The media filters were approaching the end of their useful life, and based on previous evaluations, the County selected the ultrafiltration (UF) process to retrofit within the footprint of the existing filters.

Key project components included refinements of existing pretreatment system, addition of pre-screens, replacement of media filters with 12 UF immersed membrane trains, and addition of ancillary systems including a clean-in-place (CIP) system, neutralization system, backwash system, air system, chemical feed and storage systems, and waste equalization tank.

This 54-mgd UF retrofit of media filters at LMWTP represents Florida's largest planned low-pressure (UF/MF) membrane facility and the largest planned UF retrofit in the U.S.

NORTHEAST REVERSE OSMOSIS WATER TREATMENT PLANT



RELEVANCY

- » Design and construction of new/retrofitted WTP
- » Pump stations, filtration, disinfection
- » Permitting
- » Operations and maintenance

i. Client Name and Address

Collier County Public Utilities

ii. Client Address

8005 Vanderbilt Beach
Road Ext Naples, FL 34112

iii. Project Date (start/end)

5/2023–5/2027

iv. Status of Project

Construction

v. Scope of Work

Carollo provided the design and is now providing construction phase services for a new reverse osmosis (RO) water treatment plant with initial capacity of 10-mgd with phased expansion to ultimate capacity of 45-mgd. The RO plant is co-located with a new 12-mgd wastewater treatment plant, also designed by Carollo, and will share common medium-voltage power generation/distribution, injection well, and administrative facilities.

Key components of the design include brackish water RO treatment with state-of-the-art energy recovery; nanofiltration (NF) treatment technology of surficial groundwater to optimize finished water quality and reduce capital and O&M costs; 90-mgd finished water pumping facility; two 7.5-MG ground storage tanks (ultimate six 7.5-MG GSTs); noise abatement (e.g., centralization, isolation, etc.) measures so the plant will fit into the residential neighborhood; and full-site standby power generation with medium voltage (2480-volt) power distribution to supply the wells, water treatment plant, wastewater treatment plant, and common administration and operations and maintenance facilities.

LAKE MANATEE WATER TREATMENT PLANT FILTER UPGRADE



RELEVANCY

- » Filtration
- » Design, permitting, and construction management for the UF retrofit of media filters at the WTP

i. Client Name and Address

Manatee County

ii. Client Address

1022 26th Avenue East
Bradenton, FL 34208

iii. Project Date (start/end)

5/2014–2/2024

iv. Status of Project

Complete

v. Scope of Work

Manatee County selected Carollo to provide the design and construction phase services for the Lake Manatee Water Treatment Plant (LMWTP) Filter Upgrade Project. The two existing surface water treatment trains at LMWTP have a capacity of 54-mgd (52-mgd net after in-plant use) and comprise biological roughing filters, coagulation, flocculation, sedimentation, and dual-media filtration, followed by disinfection/stabilization. The media filters were approaching the end of their useful life, and based on previous evaluations, the County selected the ultrafiltration (UF) process to retrofit within the footprint of the existing filters.

Key project components included refinements of existing pretreatment system, addition of pre-screens, replacement of media filters with 12 UF immersed membrane trains, and addition of ancillary systems including a clean-in-place (CIP) system, neutralization system, backwash system, air system, chemical feed and storage systems, and waste equalization tank.

This 54-mgd UF retrofit of media filters at LMWTP represents Florida's largest planned low-pressure (UF/MF) membrane facility and the largest planned UF retrofit in the U.S.

NORWOOD-OEFFLER WATER TREATMENT PLANT DESIGN



RELEVANCY

- » Design and construction services for a new pellet softening system and chemical storage
- » Condition assessment
- » Power distribution surge assessment
- » Membrane plant support system

i. Client Name and Address

City of North Miami Beach

ii. Client Address

19150 NW 8th Avenue
North Miami Beach, FL 33162

iii. Project Date (start/end)

5/2022–2/2025

iv. Status of Project

Construction

v. Scope of Work

Carollo provided the design and construction of a new pellet softening system with associated clearwell repairs, storage tanks, and other appurtenances. The City of North Miami Beach is faced with the challenge of upgrading an aged lime softening plant and completing several replacement and rehabilitation (R&R) upgrades to its Norwood-Oeffler WTP (NOWTP) with a limited budget and a tight schedule. The goal of the project is to complete these critical upgrades to provide continuity of service to its customers until additional funding is available to upgrade the rest of the WTP. As a result, the City decided to procure the services of a design builder team to deliver, via a progressive design build approach, the benefits of a robust, resilient, and affordable water treatment plant to its residents. Carollo partnered with PCL Construction on this important project.

This project will potentially result in the first advanced pellet softening facility in Florida. This innovative, cost-effective technology will re-define the landscape of conventional softening in Florida water treatment plants by optimizing flow and chemical distribution and mass balance principles.

DAVID L. TIPPIN WATER TREATMENT FACILITY MASTER PLAN AND DESIGN-BUILD



RELEVANCY

- » Condition assessment, pilot testing, design, permitting, and construction phase services
- » Filtration, pump stations, wells, disinfection
- » Regulatory compliance assessments

i. Client Name and Address

City of Tampa

ii. Client Address

306 East Jackson Street, 6E
Tampa, FL 33602

iii. Project Date (start/end)

2/2016–1/2028

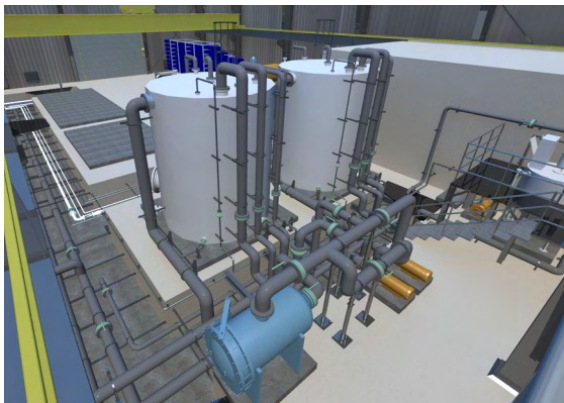
iv. Status of Project

Construction

v. Scope of Work

Carollo developed a master plan and designed improvements that included all aspects of the plant from the raw water intake through finished water storage and pumping. Carollo was selected to complete a comprehensive 15-year master plan of the City of Tampa's David L. Tippin Water Treatment Facility (DLTWTF). The master plan included a comprehensive condition assessment, including evaluation of all treatment processes; thorough inspections by electrical, mechanical, and structural engineers; and a recommended capital improvement plan to replace aging equipment and expand the facility to meet future capacity requirements. Carollo was subsequently selected to design the improvements recommended in this plan, including piloting and design of innovative technologies for TOC reduction to less than 2 mg/L and reducing the chloramine residual going into the distribution system.

SPRINGTREE WATER TREATMENT PLANT FILTER REHABILITATION DESIGN



RELEVANCY

- » Design and construction services for new filter media and appurtenances
- » Minimizing DBP
- » Filtration
- » Disinfection

i. Client Name and Address

City of Sunrise

ii. Client Address

777 Sawgrass Corporate Parkway
Sunrise, FL 33325

iii. Project Date (start/end)

6/2022–4/2024

iv. Status of Project

Complete

v. Scope of Work

The City retained Carollo to provide the design of the filters to rehabilitate the existing filtration system as well as make changes to the potable water disinfection system as well as the potable water disinfection strategy, with a focus on minimizing disinfection by product formation (DBPs). The existing filters at the Springtree Water Treatment Plant were 25 years old and had been in continuous service since constructed. Based on the age of the existing filter media and appurtenances, filter system rehabilitation was anticipated for continued long term use. In addition to the filter system, there were other related ancillary WTP features that were refurbished or replaced at this time to renovate aging assets and improve the facility's reliability to continue to produce potable drinking water well into the future.

BROWARD COUNTY PUMPING STATIONS AND STORAGE TANKS



RELEVANCY

- » *Design, permitting, and construction management for pumping stations and storage tanks*
- » *Study*
- » *Residential areas*

i. Client Name and Address

Broward County

ii. Client Address

115 South Andrews
Ave, Room 8240
Fort Lauderdale, FL 33301

iii. Project Date (start/end)

7/2015–12/2020

iv. Status of Project

Construction

v. Scope of Work

Carollo was selected to provide study, design and construction phase services for all of Broward County's high service pump stations, including standby power and chemical storage and feed, and storage tanks for a five year period. A standardized pump station floor plan was developed to allow efficiency of construction and future operations. The floor plan also provided for sound mitigation due to the proximity of the residential areas surrounding the sites.

District 1B1: New ground storage tank, high service pump station, standby power, and chemical systems. Project included a new indoor high lift pumping station including variable speed centrifugal split case pumps, sodium hypochlorite storage and feed, standby power, and a new 1.5 MG prestressed concrete storage tank.

District 2A: New ground storage tank. Carollo's project includes the design of a new 5.0 MG prestressed concrete storage tank.

District 3A: New ground storage tank, high service pump station, standby power, and chemical Systems. Carollo's project includes a new indoor high lift pumping station including variable speed centrifugal split case pumps, sodium hypochlorite storage and feed, standby power and a new 2.5 MG prestressed concrete storage tank.

GRASSY KEY POTABLE WATER TRANSMISSION MAIN REPLACEMENT



RELEVANCY

- » *Design and construction services for the replacement of potable water transmission main*
- » *Corridor study and routing*
- » *HDD trenchless technology*
- » *Distribution system connections*

i. Client Name and Address

Florida Keys Aqueduct
Authority (FKAA)

ii. Client Address

1100 Kennedy Drive
Key West, FL 33040-4021

iii. Project Date (start/end)

8/2018–3/2021

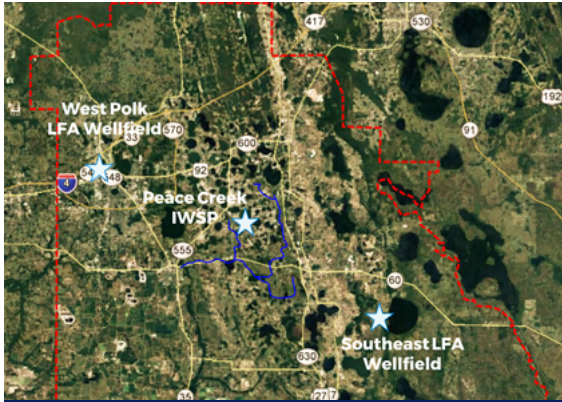
iv. Status of Project

Complete

v. Scope of Work

As part of the FKAA potable water transmission main replacement program, the Authority determined that their high pressure (250 psi) 30-inch potable water transmission main through the Grassy Key area required replacement. The project included pipeline materials selection, pipeline design, a corridor study, and extensive existing utilities investigation and coordination. The design was comprised of approximately 11,000 linear feet of 30-inch steel, cathodically protected, pipeline with four Highway US-1 crossings, which included directional drill and open-cut construction methods. Construction included the installation of transmission main isolation valves, line stop with integral tapping sleeve and tapping gate valve for connecting to the existing main, combination air valves, potable water distribution lines crossing Highway US-1 via horizontal directional drilling trenchless installation method, potable water distribution system connections, and master meter vaults.

PHASE 1 - WATER SUPPLY IMPROVEMENTS



RELEVANCY

- » Conceptual design
- » Alternative water supply
- » Wellfields
- » Aquifer recharge

i. Client Name and Address

Polk Regional Water
Cooperative (PRWC)

ii. Client Address

2701 Lake Myrtle Park Road
Auburndale, FL 33823

iii. Project Date (start/end)

10/2017–11/2020

iv. Status of Project

Complete

v. Scope of Work

Fresh groundwater from the Upper Floridan aquifer is currently the source of potable water supply for essentially all of Central Florida. However, regulators determined that future potable water supplies must come from alternative sources. Future alternative water supplies (AWS) involve sources that are more distant and more expensive to treat. To reduce costs and maximize opportunities for co-funding, sharing AWS sources amongst communities is necessary. Previous studies identified three water supply projects and corresponding pipelines to serve PRWC:

1. Southeast Wellfield
2. West Polk Wellfield
3. Peace Creek Integrated Water Resources Project

PRWC selected Carollo Engineers to refine the project concepts for each of these individual projects, optimize the projects as a whole, and develop plans and specifications to the 30% level. With well over 100 miles of pipe, two new reverse osmosis water treatment plants, an aquifer recharge facility, and a budget of over \$600M, this is currently the largest and most complex regional water supply project in Florida.

WATER MASTER PLAN UPDATE AND WATER SUPPLY FACILITIES WORK PLAN



RELEVANCY

- » Master planning of water facilities
- » Regulatory compliance
- » Projection planning

i. Client Name and Address

City of Pompano Beach

ii. Client Address

1205 NE 5th Avenue
Pompano Beach, FL 33060

iii. Project Date (start/end)

4/2024–3/2025

iv. Status of Project

Substantially Complete

v. Scope of Work

The City of Pompano Beach's 10-year water supply facilities work plan (WSFWP) is required to be regularly updated by Florida statutes (Section 163.3177 (6) (c)), at 5-year intervals or within 18 months after the governing board of the South Florida Water Management District (SFWMD) adopts a new lower east cost water supply plan update (LEC Plan Update). SFWMD was developing the 2023 LEC Plan Update to assess projected water demands and potential sources of water for the period from 2021 to 2045. This plan served to update and modify local comprehensive plans, facility work plans, and ordinances. Carollo performed engineering services associated with preparing the City's WSFWP update for adoption in early 2025. Carollo assisted the City in preparing a letter to SFWMD describing how the City intends to address the projects outlined in the 2023 LEC Plan Update.

In conjunction with this WSFWP, Carollo is preparing an update of the 2020 Water Master Plan that is consistent with the WSFWP 2025 Update and the most current LEC plan. The master plan will be completed for a 20-year period, considering an ultimate scenario beyond the 20-year horizon consistent with the projection methodology used for the most recent Consumptive Use Permit (CUP) renewal.

CHAPTER

4

Proposal Response Requirements Information

D. Organizational Structure

D. Organizational Structure

We are confident our key team members and firm have the capacity and resources to deliver your Continuing Engineering Consulting Services projects within your desired time frame. Our company wide staff numbers more than 1,400 employees, including more than 600 registered engineers. Further, we will deliver responsive service from our nearby office in West Palm Beach.

i. Carollo's breakdown of staff by discipline is shown in the table below.

Discipline	No. of Employees	
	Local	Corporate
Administrative	117	
Architects	4	
Chemical Engineers	9	
Civil Engineers	311	3
Computer Personnel	45	
Construction Engineers	16	
Construction Inspectors	58	1
Construction Managers	31	
Draftsperson	143	
Electrical Engineers	45	
Environmental Engineers	353	3
Geographic Information System Specialist	3	
Instrumentation/Controls	44	
Marketing	69	
Mechanical Engineers	26	
Structural Engineers	38	
Word Processing	18	
Other Employees	106	1
Total	1,436	8

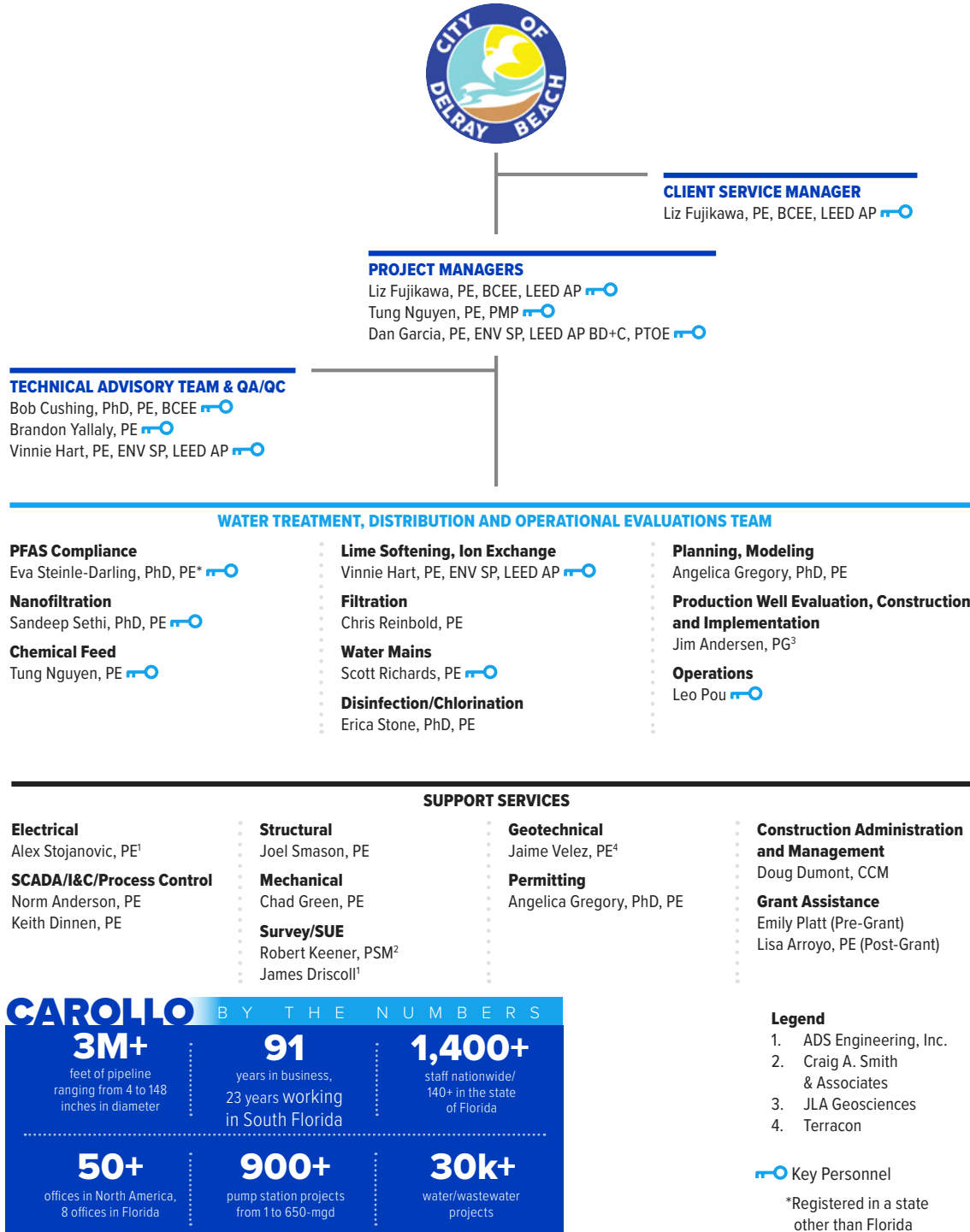
ii. Subconsultants:

Firm	Role
ADS Engineering, Inc.	Electrical
Craig A. Smith & Associates	Surveying/SUE
JLA Geosciences	Production Well Evaluation, Construction, and Implementation
Terracon	Geotechnical

iii. Organizational Diagram:

This continuing services contract will be managed and directed by Liz Fujikawa. The organizational chart below identifies the path of responsibility between the City staff, our project managers, and our “hand selected” Carollo team. This team and organizational structure offer key benefits, including:

- **Core Team with Extensive Local Experience.** A core team with the depth of local resources to start work immediately on clearly defined task order elements
- **Flexibility.** The team must have the full commitment of a pool of on-call experts and resources that are available at a moment’s notice to support you on any challenge. We have over 140 local staff in our Florida offices, supplemented by our nationwide experts, and they are committed to your success.



iv. Carollo team member's responsibilities, contractual relationships, and roles of all individuals in the organizational diagram are shown in the table below.

Team Member	Responsibility	Contractual Relationship	Role
Liz Fujikawa, PE, BCEE, LEED AP	<ul style="list-style-type: none"> Overall contract management Management of individual task orders 	Employee/officer: Carollo, prime firm	Client service manager/project manager
Tung Nguyen, PE, PMP	<ul style="list-style-type: none"> Management of individual task orders Lead design engineer for chemical feed 	Employee: Carollo, prime firm	Project manager/chemical feed
Dan Garcia, PE, ENV SP, LEED AP	<ul style="list-style-type: none"> Management of individual task orders 	Employee: Carollo, prime firm	Project manager
Bob Cushing, PhD, PE, BCEE	<ul style="list-style-type: none"> Technical advisor/subject matter expert Quality control reviewer 	Employee/officer: Carollo, prime firm	Technical advisor/quality control
Brandon Yallaly, PE	<ul style="list-style-type: none"> Technical advisor/subject matter expert Quality control reviewer 	Employee/officer: Carollo, prime firm	Technical advisor/quality control
Vinnie Hart, PE, LEED AP, ENV SP	<ul style="list-style-type: none"> Technical advisor/subject matter expert Quality control reviewer Lead engineer for lime softening and IX, studies, design and construction service 	Employee/officer: Carollo, prime firm	Technical advisor/quality control/lime softening, ion exchange
Eva Steinle-Darling, PhD, PE	<ul style="list-style-type: none"> Management of individual task orders 	Employee: Carollo, prime firm	PFAS compliance
Sandeep Sethi, PhD, PE	<ul style="list-style-type: none"> Lead engineer for nanofiltration, studies, design and construction service 	Employee/officer: Carollo, prime firm	Nanofiltration
Chris Reinbold, PE	<ul style="list-style-type: none"> Lead engineer for filtration, studies, design and construction services 	Employee/officer: Carollo, prime firm	Filtration
Scott Richards, PE	<ul style="list-style-type: none"> Lead engineer for pipeline and pumping design and construction services 	Employee/officer: Carollo, prime firm	Water mains
Erica Stone, PhD, PE	<ul style="list-style-type: none"> Lead engineer for studies, evaluations, and design of disinfection/chlorination systems 	Employee/officer: Carollo, prime firm	Disinfection/chlorination
Angelica Gregory, PhD, PE	<ul style="list-style-type: none"> Lead engineer for master planning and hydraulic modeling Task lead for permitting 	Employee/officer: Carollo, prime firm	Planning/modeling
Jim Andersen, PG	<ul style="list-style-type: none"> Lead production well geologist to conduct evaluations, oversee construction, and assist with start-up 	Employee: JLA Geosciences, subconsultant	Production well evaluation, construction, and implementation
Leo Pou	<ul style="list-style-type: none"> Operations assistance, training, O&M 	Employee: Carollo, prime firm	Operations
Alex Stojanovic, PE	<ul style="list-style-type: none"> Lead electrical engineer 	Employee: ADS Engineering, subconsultant	Electrical
Norm Anderson, PE	<ul style="list-style-type: none"> Lead instrumentation and controls engineer 	Employee: Carollo, prime firm	SCADA/I&C/Process controls
Keith Dinnen, PE	<ul style="list-style-type: none"> Instrumentation and controls engineer 	Employee: Carollo, prime firm	SCADA/I&C/Process controls
Joel Smason, PE, SE	<ul style="list-style-type: none"> Lead structural engineer 	Employee: Carollo, prime firm	Structural
Chad Green, PE	<ul style="list-style-type: none"> Lead mechanical engineer 	Employee: Carollo, prime firm	Mechanical
Robert Keener, PSM	<ul style="list-style-type: none"> Lead surveyor and mapper/SUE 	Employee: Craig A. Smith & Associates, subconsultant	Survey/SUE
James Driscoll	<ul style="list-style-type: none"> Surveyor/SUE technician 	Employee: Craig A. Smith & Associates, subconsultant	Survey/SUE
Jaime Velez, PE	<ul style="list-style-type: none"> Lead geotechnical engineer 	Employee: Terracon, subconsultant	Geotechnical
Doug Dumont	<ul style="list-style-type: none"> Construction manager, administration, and lead inspector 	Employee: Carollo, prime firm	Construction administration and management
Emily Platt	<ul style="list-style-type: none"> Lead advisor to identify and apply for funding assistance 	Employee: Carollo, prime firm	Grant assistance (Pre-)
Lisa Arroyo, PE	<ul style="list-style-type: none"> Lead engineer for grant compliance 	Employee: Carollo, prime firm	Grant assistance (Post)



2056 Vista Parkway, Suite 150
West Palm Beach, Florida 33411
561-868-6400
carollo.com

November 4, 2024

The City of Delray Beach
100 NW 1st Avenue
Delray Beach, FL 33444

RE: RFQ No. 2025-007 for Continuing Engineering Consulting Services
Water Treatment Design Services
v. Statement of Proposer's Commitment of Personnel and Resources

Dear Ms. Thompson and Members of the Selection Committee:

Carollo Engineers, Inc., recognizes the importance of providing the right resources to the City of Delray Beach on each and every task order issued under the Continuing Engineering Consulting Services contract. Therefore, Carollo commits to provide the necessary resources, including the key personnel listed in this proposal, as appropriate to meet the respective needs of each individual task order.

Over the duration of this 3-year contract, and possible two 1-year extensions, the workload of key personnel and other resources will vary according to overall project commitments and individual roles and responsibilities within Carollo. Under any circumstance, the depth of our named key personnel and company wide staff allows us to provide quality deliverables within budget and schedule for City requested task orders.

For the categories covered by this contract, the following table presents Carollo's approximate aggregate historical and current, and projected workloads for the named key personnel groups. The estimated aggregate commitment of key personnel groups for this contract is also noted in the table based on task orders over the 3-year contract period.

Services	HISTORICAL AND CURRENT WORKLOAD (%, PERCENT)	PROJECTED WORKLOAD (%, PERCENT)	PROJECTED AVAILABILITY (%, PERCENT)
Project Managers	85	85	30
Project Engineers	85	85	40
Mechanical, Electrical, and Instrumentation Engineers	85	85	50
Structural Engineers	85	85	50
Water Resources Personnel	85	85	60
Environmental Engineers	85	85	50

In summary, Carollo commits to providing personnel and other resources necessary to successfully deliver any requested task orders or multiple task orders concurrently under this contract.

Sincerely,

CAROLLO ENGINEERS, INC.

Elizabeth Fujikawa, PE, BCEE, LEED AP
Vice President/Project Manager

vi. Key Personnel Recent, Current, and Projected Workload

We are **CONFIDENT** our key team members and firm have the capacity and resources to deliver your projects within your desired time-frame.



As a specialty water/wastewater firm, we offer all the benefits of a small firm focused day-to-day on water and wastewater with the large firm benefits of national perspectives.

As a highly-ranked national firm that specializes in water and wastewater projects, Carollo continuously executes a high volume of work across a wide range of disciplines. Our firm-wide workload committed to active and ongoing projects generally ranges between 65 and 70 percent. As a result, we have more than ample capacity to respond to our client's needs regardless of the size and nature of the work we undertake.

The availability of each staff member to participate in this project is included in the below graphic. The level of availability indicated in this graph shows that all key staff have ample capacity for this project and that we are ready to “hit the ground running.”

AVAILABILITY of Key Personnel

	RECENT AVAILABILITY	CURRENT AVAILABILITY	PROJECTED AVAILABILITY
Liz Fujikawa, PE <i>Contract/Project Manager</i>	40%	40%	60%
Tung Nguyen, PE <i>Project Manager/Chemical Feed</i>	40%	40%	60%
Dan Garcia, PE <i>Project Manager</i>	50%	50%	80%
Bob Cushing, PE <i>Technical Advisor/Quality</i>	35%	35%	65%
Brandon Yallaly, PE <i>Technical Advisor/Quality</i>	50%	50%	50%
Vinnie Hart, PE <i>Quality/Lime Softening/IX</i>	35%	35%	65%
Eva Steinle-Darling, PhD, PE <i>Regulatory Compliance - PFAS</i>	30%	30%	70%
Sandeep Sethi, PhD, PE <i>Nanofiltration</i>	40%	40%	60%
Scott Richards, PE <i>Water Mains</i>	35%	35%	65%
Leo Pou <i>Operations</i>	50%	50%	50%

The background image shows a large industrial facility, likely a power plant or manufacturing plant, with various pieces of machinery, pipes, and structural elements. The entire image is covered with a semi-transparent blue overlay. In the upper left corner, there are several concentric white circles. A white horizontal line is positioned below the chapter number '5'.

CHAPTER

5 Forms

Chapter 5: Forms

ACKNOWLEDGEMENT OF ADDENDA

Instructions: Complete Part I or Part II, Whichever Applies

PART I:
List below the dates of issue for each addendum received in connection with this Solicitation:

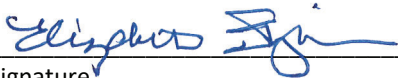
- Addendum #1, Dated November 13, 2024
- Addendum #2, Dated December 2, 2024
- Addendum #3, Dated December 3, 2024
- Addendum #4, Dated December 3, 2024
- Addendum #5, Dated
- Addendum #6, Dated
- Addendum #7, Dated
- Addendum #8, Dated
- Addendum #9, Dated
- Addendum #10, Dated

PART II:

☐ NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS SOLICITATION

Carollo Engineers, Inc.

Firm Name



Signature

Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Name and Title (Print or Type)

December 4, 2024

Date

City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE Proposer TO THE TERMS OF ITS PROPOSAL.

CONFLICT OF INTEREST DISCLOSURE FORM

The award of this contract is subject to the provisions of Chapter 112, *Florida Statutes*. All Proposers **must** disclose within their Proposal: the name of any officer, director, or agent who is also an employee of the City of Delray Beach.

Furthermore, all Proposers **must** disclose the name of any City employee who owns, directly or indirectly, an interest of more than five percent (5%) in the Proposer's firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for evaluation team members and other key personnel involved in the award of this contract.

The term "conflict of interest" refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee's professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

Please check one of the following statements and attach additional documentation if necessary:

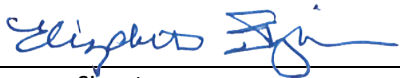
 X To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other Cities, Counties, contracts, or property interest for this Proposal.

 The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other Cities, Counties, contracts, or property interest for this Proposal.

Acknowledged by:

Carollo Engineers, Inc.

Firm Name



Signature

Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Name and Title (Print or Type)

December 4, 2024

Date

City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

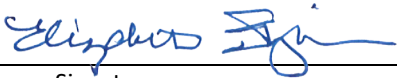
NOTIFICATION OF PUBLIC ENTITY CRIMES LAW

Pursuant to Section 287.133, *Florida Statutes*, you are hereby notified that a person or affiliate who has been placed on the convicted contractors list following a conviction for a public entity crime may not submit a Proposal on a contract to provide any goods or services to a public entity; may not submit a Proposal on a contract with a public entity for the construction or repair of a public building or public work; may not submit Proposal on leases or real property to a public entity; may not be awarded or perform work as a contractor, supplier, sub-consultant, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 [F.S.] for Category Two [\$35,000.00] for a period of thirty-six (36) months from the date of being placed on the convicted contractors list.

Acknowledged by:

Carollo Engineers, Inc.

Firm Name



Signature

Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Name and Title (Print or Type)

December 4, 2024

Date

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City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

**Notification of Public Records Law Pertaining to Public Contracts and Requests for Contractor Records
Pursuant to Chapter 119, Florida Statutes**

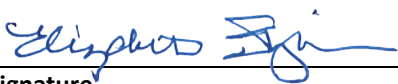
Pursuant to Chapter 119, *Florida Statutes*, Contractor **shall** comply with the public records law by keeping and maintaining public records required by the City of Delray Beach in order to perform the service. Upon request from the City of Delray Beach' custodian of public records, contract **shall** provide the City of Delray Beach with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, *Florida Statutes* or as otherwise provided by law. Contractor **shall** ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract. If the Contractor does not transfer the records to the City of Delray Beach. Contractor upon completion of the contract, **shall** transfer, at no cost, to the City of Delray Beach all public records in possession of the Contractor or keep and maintain public records required by the City of Delray Beach in order to perform the service. If the Contractor transfers all public records to the City of Delray Beach upon completion of the contract, the Contractor **shall** destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor **shall** meet all applicable requirements for retaining public records. All records stored electronically **must** be provided to the City of Delray Beach, upon request from the City of Delray Beach' custodian of public records, in a format that is compatible with the information technology systems of the City of Delray Beach.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT OFFICE OF THE CITY CLERK LOCATED AT 100 NW 1ST STREET, DELRAY BEACH, FLORIDA 33444, PHONE NUMBER (561) 243-7000, EMAIL ADDRESS: JOHNSONK@MYDELRAYBEACH.COM.

Acknowledged:

Carollo Engineers, Inc.

Firm Name



Signature

Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Name and Title (Print or Type)

December 4, 2024

Date

City of Delray Beach
RFQ No. 2025-007
CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

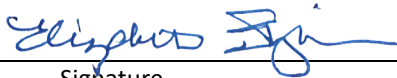
DRUG-FREE WORKPLACE

Carollo Engineers, Inc. is a drug-free workplace and has
(Company Name)
a substance abuse policy in accordance with and pursuant to Section 440.102, *Florida Statutes*.

Acknowledged by:

Carollo Engineers, Inc.

Firm Name



Signature

Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Name and Title (Print or Type)

December 4, 2024

Date

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City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

NON-COLLUSION AFFIDAVIT

STATE OF Florida
COUNTY OF Sarasota

Before me, the undersigned authority, personally appeared Elizabeth Fujikawa, PE, BCEE, LEED AP, who, after being by me first duly sworn, deposes and says of his/her personal knowledge that:

- a. He/She is Vice President of Carollo Engineers, Inc., the Proposer that has submitted a Proposal to perform work for the following:

RFQ No.: 2025-007 Title: Continuing Engineering Consulting Services-Utilities

- b. He/She is fully informed respecting the preparation and contents of the attached Request for Qualifications, and of all pertinent circumstances respecting such Solicitation.

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

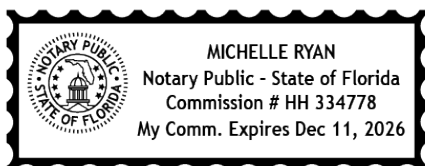
- c. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other Proposer, firm, or person to submit a collusive or sham Proposal in connection with the Solicitation and contract for which the attached Proposal has been submitted or to refrain from proposing in connection with such Solicitation and contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm, or person to fix the price or prices in the attached Proposal or any other Proposer, or to fix any overhead, profit, or cost element of the Proposal price or the Proposal price of any other Proposer, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City or any person interested in the proposed contract.
- d. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Elizabeth Fujikawa

Signature

Completed via Remote Online Notarization using 2 way Audio/Video technology.
Subscribed and sworn to (or affirmed) before me this 21st day of November 2024, by Elizabeth Fujikawa, PE, BCEE, LEED AP, who is personally known to me or who has produced _____ as identification.

SEAL



Notary Signature Michelle Ryan
Notary Name: Michelle Ryan
Notary Public (State): Florida
My Commission No: HH 334778
Expires on: 12/11/2026

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NotaryCam Doc ID: e9781c32-1f5a-4fbb-b6e4-0b5dcf3734c7

City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

CITY OF DELRAY BEACH

Affidavit Regarding the Use of Coercion for Labor and Services

Vendor Name: Carollo Engineers, Inc.

Vendor FEIN: 86-0899222

Vendor's
Authorized
Representative
Name and Title: Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Address: 2056 Vista Parkway, Suite 150
City: West Palm Beach State: FL Zip: 33411

Phone Number: 561-868-6400

Email Address: efujikawa@carollo.com

Florida Statute §787.06(13) requires all nongovernmental entities executing, renewing, or extending a contract with a governmental entity to provide an affidavit signed by an officer or representative of the nongovernmental entity under penalty of perjury that the nongovernmental entity does not use coercion for labor or services as defined in that statute. The City of Delray Beach, Florida is a governmental entity for the purposes of this statute.

As the officer or representative of the company, I certify that the company identified above does not:

- Use or threaten to use physical force against any person;
- Restrain, isolate, or confine or threaten to restrain, isolate, or confine any person without lawful authority and against his or her will;
- Use lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied towards the liquidation of the debt, the length and nature of the labor or services are not respectively limited and defined;
- Destroy, conceal, remove, confiscate, withhold, or possess any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification, of any person;
- Cause or threaten to cause financial harm to any person;
- Entice or lure any person by fraud or deceit;
- Provide controlled substances as outlined in Schedule I or Schedule II of Florida State Statute §893.03 to any person for the purpose of exploitation of that person.

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City of Delray Beach
RFQ No. 2025-007
CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

Under penalties of perjury, I declare that I have read the foregoing document and the at the facts stated in it are true.

Signature: 
(Authorized Signature)

Print Name
And Title: Elizabeth Fujikawa, PE, BCEE, LEED AP, Vice President

Date: December 4, 2024

City of Delray Beach
RFQ No. 2025-007
CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

TRUTH – IN – NEGOTIATION CERTIFICATE

The undersigned warrants (i) that it has not employed or retained any company or person, other than bona fide employees working solely for the undersigned, to solicit or secure the Agreement and (ii) that it has not paid or agreed to pay any person, company, corporation, individual, or firm other than its bona fide employees working solely for the undersigned or agreed to pay any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of the Agreement.

The undersigned certifies that the wage rates and other factual unit costs used to determine the compensation provided for in the Agreement are accurate, complete, and current as of the date of the Agreement.

Name: Elizabeth Fujikawa, PE, BCEE, LEED AP

Title: Vice President

Date: December 4, 2024

Signature: 

(The remainder of this page is intentionally left blank)

City of Delray Beach
RFQ No. 2025-007

CONTINUING ENGINEERING CONSULTING SERVICES- UTILITIES

Scrutinized Company Certification

This certification is required pursuant to Florida State Statute Section 287.135.

As of July 1, 2011, a company that, at the time of bidding or submitting a proposal for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List is ineligible for, and may not bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1 million or more.

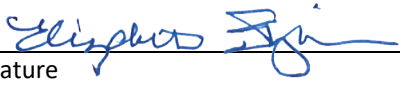
Companies **must** complete and return this form with its response.

Company. Carollo Engineers, Inc. FID or EIN No. 86-0899222

Address. 2056 Vista Parkway, Suite 150

City. West Palm Beach State. FL Zip. 33411

I, Elizabeth Fujikawa, PE, BCEE, LEED AP, as a representative of Carollo Engineers, Inc.
certify and affirm that this company is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

 _____ Signature	Vice President _____ Title
<u>Elizabeth Fujikawa, PE, BCEE, LEED AP</u> _____ Printed Name	_____ Date

CHAPTER

6

Evidence of Insurance

Chapter 6 - Evidence of Insurance



CERTIFICATE OF LIABILITY INSURANCE

7/4/2025

DATE (MM/DD/YYYY)
11/18/2024

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

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

PRODUCER Lockton Companies, LLC 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000 kcasu@lockton.com		CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:	
INSURED 1472613 CAROLLO ENGINEERS, INC. 2795 MITCHELL DR. WALNUT CREEK CA 94598-1601		INSURER(S) AFFORDING COVERAGE INSURER A: Zurich American Insurance Company INSURER B: Allied World Surplus Lines Insurance Company INSURER C: INSURER D: INSURER E: INSURER F:	
		NAIC # 16535 24319	

COVERAGES **CERTIFICATE NUMBER:** 21161319 **REVISION NUMBER:** XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	N	GLO 9730569	7/4/2024	7/4/2025	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 2,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$	Y	N	BAP 9730571	7/4/2024	7/4/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX DED: COMP/COLL \$ 1,000 EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	NOT APPLICABLE						
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC 9730570	7/4/2024	7/4/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	PROFESSIONAL LIABILITY FULL PRIOR ACTS	N	N	0313-9010	7/4/2024	7/4/2025	EACH CLAIM: \$1,000,000; AGGREGATE: \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 RFQ No.: 2025-007 - Continuing Engineering Consulting Services - Utilities. City of Delray Beach is additional insured as respects general liability and auto liability, and these coverages are primary and non-contributory, as required by written contract. Contractual liability is included in the general liability subject to the policy terms, conditions and exclusions. (SEE ATTACHED.)

CERTIFICATE HOLDER

CANCELLATION

21161319 City of Delray Beach City Purchasing Division 100 N.W. 1st Ave. Delray Beach FL 33444	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:
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ACORD 25 (2016/03)

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