CONTRACT FOR
PROFESSIONAL CONSULTING SERVICES

This Contract is made on _____, by and between the City of Pompano Beach, a municipal corporation of the State of Florida, hereinafter referred to as "CITY," and Carollo Engineers, Inc., a California corporation, authorized to do business in the State of Florida, hereinafter referred to as the "Consultant".

WHEREAS, the Consultant is able and prepared to provide such services as City requires under the terms and conditions set forth herein; and

WHEREAS, the City Commission has approved the recommendation that Consultant be employed by the City and authorized the negotiation of contractual terms.

NOW, THEREFORE, in consideration of the mutual promises herein, the City and the Consultant agree as follows:

ARTICLE 1 – SERVICES/CONSULTANT AND CITY REPRESENTATIVES

The Consultant's responsibility under this Contract is to provide professional consulting services as more specifically set forth in RLI No. 25-072 attached hereto as Exhibit "A" and incorporated herein in its entirety.

The Consultant's representative shall be Elizabeth Fujikawa, Vice President

The CITY's representative shall be City Engineer or designee,

ARTICLE 2 – TERM

The CONSULTANT shall adhere to the schedule given in each work authorization after receiving the "Notice to Proceed."

Reports and other items shall be delivered or completed in accordance with the detailed schedule set forth in individual Work Authorizations as negotiated.

The Term of this Contract shall be for an initial period of five (5) years from the date of execution by both the City and the Consultant.

ARTICLE 3 – PAYMENTS TO CONSULTANT

A. City agrees to pay Consultant in consideration for its services described herein. It is the intention of the parties hereby to ensure that unless otherwise directed by the City in writing, Consultant will continue to provide services as specified in Exhibit "A" for the term of this Contract.

B. Price Formula. City agrees to pay Consultant as negotiated on a Work Authorization basis. Each work authorization shall specifically identify the scope of the work to be performed and the fees for said services. As set forth in RLI No. 25-072, professional services under this contract will be restricted to the amounts required by §287.055, Florida Statutes.

C. Fee Determination. Each individual Work Authorization may be negotiated for fees to be earned by Time and Materials with a Not to Exceed Amount, Lump Sum, or a combination of both methods for subtasks contained therein. The total amount to be paid by the City under a Work Authorization shall not exceed specified amounts for all services and materials including "out of pocket" expenses as specified in Paragraph E below and also including any approved subcontracts unless otherwise agreed in writing by both parties. The Consultant shall notify the City's Representative in writing when ninety (90%) of the "not to exceed amount" for the total Work Authorization has been reached. The Consultant will bill the City on a monthly basis, or as otherwise provided. Time and Materials billing will be made at the amounts set forth in Exhibit "B" for services rendered toward the completion of the Scope of Work. Where incremental billings for partially completed items are permitted, the total billings shall not exceed the estimated percentage of completion as of the billing date. It is acknowledged and agreed to by the Consultant that the dollar limitation set forth in this section is a limitation upon and describes the maximum extent of City's obligation to pay Consultant, but does not include a limitation upon Consultant's duty to perform all services set forth in Exhibit "A" for the total compensation in the amount or less than the guaranteed maximum stated above.

D. Invoices received by the City from the Consultant pursuant to this Contract will be reviewed and approved in writing by the City's Representative, indicating that services have been rendered in conformity with the Contract, and then will be sent to the City's Finance Department for payment. All invoices shall contain a detailed breakdown of the services provided for which payment is being requested. In addition to detailed invoices, upon request of the City's representative, Consultant shall provide City with detailed periodic Status Reports on the project. All invoice payments by City shall be made after the Work has been verified and completed. Unless disputed by City as provided herein, upon City's receipt of a Proper Invoice as defined in §218.72, Florida Statutes, as amended, City shall forward Consultant payment for work performed within forty-five (45) days for all goods and services provided.

City may temporarily remove for review any disputed amount, by line item, from an invoice and shall timely provide Consultant written notification of any such disputed charge. Consultant shall provide clarification and a satisfactory explanation to City, along with revised copies of all such documents if inaccuracies or errors are discovered, within ten (10) days of receipt of City's notice of the disputed amount.

In the event City has a claim against Consultant for Work performed hereunder which has not been timely remedied in accordance with the provisions of this Article 3, City may withhold payment for the contested amount, in whole or in part, to protect itself from loss on account of defective Work, claims filed or reasonable evidence indicating probable filing of claims by other parties against Consultant, and/or Consultant's failure to make proper payments to subcontractors or vendors for material or labor. When the reason(s) for withholding payment are removed or resolved in a manner satisfactory to City, payment shall be made.

E. "Out-of-pocket" expenses shall be reimbursed up to an amount not to exceed amounts included in each Work Authorization. All requests for payment of "out-of-pocket" expenses eligible for reimbursement under the terms of this Contract shall include copies of paid receipts, invoices, or other documentation acceptable to the City's Representative and to the Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the Scope of Work described in a Work Authorization and this Contract. All out-of- pocket, reimbursables and expenses shall be billed at actual amount paid by Consultant, with no markup.

F. Final Invoice. In order for both parties herein to close their books and records, the Consultant will clearly state "Final Invoice" on the Consultant's final/last billing to the City. This final invoice shall also certify that all services provided by Consultant have been properly performed and all charges and costs have been invoiced to the City. Because this account will thereupon be closed, any and other further charges not properly included on this final invoice are waived by the Consultant.

ARTICLE 4 – CONTRACT DOCUMENTS

This Agreement consists of the Solicitation set forth in Exhibit "A", the Consultant's Response set forth in Exhibit "B" (collectively, the "Work") and, the Insurance Requirements set forth in Exhibit "C," all of which are attached and made a part of this Agreement. It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and off equal dignity herewith. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 26 – Modification of Work. In the event of any conflict or inconsistency between this Agreement and the provisions in the incorporated Exhibits, resolution shall be attained by giving precedence in the following order: (i) this Agreement, (ii) Exhibit "A", and (iii) Exhibit "C".

ARTICLE 5 – TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Contract by the Consultant shall also act as the execution of a truth in negotiation certificate, certifying that the wage rates, overhead charges, and other costs used to determine the compensation provided for this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the Consultant's most favored customer for the same or substantially similar service. Should the City determine that said rates and costs were significantly increased due to incomplete, non-current or inaccurate representation, then said rates shall be adjusted accordingly.

ARTICLE 6 – TERMINATION

City shall have the right to terminate this Contract, in whole or in part, for convenience, cause, default or negligence on Consultant's part, upon ten (10) business days advance written notice to Consultant. Such Notice of Termination may include City's proposed Transition Plan and timeline for terminating the Work, requests for certain Work product documents and materials, and other provisions regarding winding down concerns and activities.

If there is any material breach or default in Consultant's performance of any covenant or obligation hereunder which has not been remedied within ten (10) business days after City's written Notice of Termination, City, in its sole discretion, may terminate this Contract immediately and Consultant shall not be entitled to receive further payment for services rendered from the effective date of the Notice of Termination.

In the event of termination, City shall compensate Consultant for all authorized Work satisfactorily performed through the termination date under the payment terms set forth in Article 3 above and all Work product documents and materials shall be delivered to City within ten (10) business days from the Notice of Termination. If any Work hereunder is in progress but not completed as of the date of the termination, then upon City's written approval, this Contract may be extended until said Work is completed and accepted by City.

This Contract may be cancelled by the Consultant, upon thirty (30) days prior written notice to the City's Representative, in the event of substantial failure by the City to perform in accordance with the terms of this Contract through no fault of the Consultant.

ARTICLE 7 – PERSONNEL

The Consultant is, and shall be, in the performance of all work services and activities under this Contract, an independent Contractor, and not an employee, agent or servant of the City. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the Consultant's sole direction, supervision, and control and shall not in any manner be deemed to be employees of the City. The Consultant shall exercise control over the means and manner in which it and its employees perform the work. This contract does not create a partnership or joint venture between the parties.

The Consultant represents that it has, or will secure at its own expense, all necessary personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the City, nor shall such personnel be subject to any withholding for tax, Social Security or other purposes by the City, nor be entitled to any benefits of the City including, but not limited to, sick leave, pension benefits, vacation, medical benefits, life insurance, workers or unemployment compensation benefits, or the like from the City.

All of the services required hereunder shall be performed by the Consultant or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under state and local law to perform such services.

Any changes or substitutions in the Consultant's key personnel, as may be listed in Article 1, must be made known to the City's Representative at the time substitution becomes effective.

The Consultant warrants that all services shall be performed by skilled and competent personnel to the degree exercised by consultants performing the same or similar services in the same location at the time the services are provided.

ARTICLE 8 – SUBCONTRACTING

Consultant may subcontract any services or work to be provided to City with the prior written approval of the City's Representative. The City reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make determination as to the capability of the subcontractor to perform properly under this Contract. The City's acceptance of a subcontractor shall not be unreasonably withheld. The Consultant is encouraged to seek small business enterprises and to utilize businesses that are physically located in the City of Pompano Beach with a current Business Tax Receipt for participation in its subcontracting opportunities.

ARTICLE 9 – FEDERAL AND STATE TAX

The City is exempt from payment of Florida State Sales and Use Taxes. The City will provide the Consultant with the current state issued exemption certificate. The Consultant shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the City, nor is the Consultant authorized to use the City's Tax Exemption Number in securing such materials.

The Consultant shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes and benefits with respect to this Contract

ARTICLE 10 – AVAILABILITY OF FUNDS

The City's performance and obligation to pay under this Contract is contingent upon appropriation for various projects, tasks and other professional services by the City Commission.

ARTICLE 11 - INSURANCE REQUIREMENTS

The Consultant shall not commence work under this Contract until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the City, nor shall the Consultant allow any Subcontractor to commence work on its sub-contract until the aforementioned approval is obtained.

CERTIFICATE OF INSURANCE, reflecting evidence of the required insurance, shall be filed with the Risk Manager prior to the commencement of the work. The Certificate shall contain a provision that coverage afforded under these policies will not be cancelled, will not expire and will not be materially modified until at least thirty (30) days prior written notice has been given to the City. Policies shall be issued by companies authorized to conduct business under the laws of

the State of Florida and shall have adequate Policyholders and Financial ratings in the latest ratings of A. M. Best and be part of the **Florida Insurance Guarantee Association Act**.

Insurance shall be in force until all work required to be performed under the terms of the Contract is satisfactorily completed as evidenced by the formal acceptance by the City. In the event the Insurance Certificate provided indicates that the insurance shall terminate and lapse during the period of this Contract, the Consultant shall furnish, at least ten (10) days prior to the expiration of the date of such insurance, a renewed Certificate of Insurance as proof that equal and like coverage for the balance of the period of the Contract and extension thereunder is in effect. The Consultant shall not continue to work pursuant to this Contract unless all required insurance remains in full force and effect.

Limits of Liability for required insurance are shown in Exhibit "C."

The City of Pompano Beach must be named as an additional insured for the Automobile and Commercial General Liability Coverage.

For Professional Liability, if coverage is provided on a claims made basis, then coverage must be continued for the duration of this Contract and for not less than one (1) year thereafter, or in lieu of continuation, provide an "extended reporting clause" for one (1) year.

Consultant shall notify the City Risk Manager in writing within thirty (30) days of any claims filed or made against the Professional Liability Insurance Policy.

For Workers' Compensation Insurance, coverage shall be maintained during the life of this Contract to comply with statutory limits for all employees, and in the case of any work sublet, the Consultant shall require any Subcontractors similarly to provide Workers' Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the Consultant. The Consultant and his Subcontractors shall maintain during the life of this Contract Employer Liability Insurance.

ARTICLE 12 – INDEMNIFICATION

A. Consultant shall at all times indemnify, hold harmless the City, its officials, officers, employees, volunteers and other authorized agents from and against any and all claims, demands, suit, damages, attorneys' fees, fines, losses, penalties, defense costs or liabilities suffered by the City to the extent caused by any negligent act, omission, breach, recklessness or misconduct of Consultant and/or any of its agents, officers, or employees hereunder, including any inaccuracy in or breach of any of the representations, warranties or covenants made by the Consultant, its agents, officers and/or employees, in the performance of services of this contract. To the extent considered necessary by City, any sums due Consultant hereunder may be retained by City until all of City's claims for indemnification hereunder have been settled or otherwise resolved, and any amount withheld shall not be subject to payment or interest by City.

B. Consultant acknowledges and agrees that City would not enter into this Contract without this indemnification of City by Consultant. The parties agree that one percent (1%) of the total compensation paid to Consultant hereunder shall constitute specific consideration to Consultant for the indemnification provided under this Article and these provisions shall survive expiration or early termination of this Contract.

C. Nothing in this Agreement shall constitute a waiver by the City of its sovereign immunity limits as set forth in section 768.28, Florida Statutes. Nothing herein shall be construed as consent from either party to be sued by third parties.

ARTICLE 13 – SUCCESSORS AND ASSIGNS

The City and the Consultant each binds itself and its partners, successors, executors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the City nor the Consultant shall assign, sublet, encumber, convey or transfer its interest in this Contract without prior written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the City, which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the City and the Consultant.

ARTICLE 14 – REMEDIES

The laws of the State of Florida shall govern this Contract. Any and all legal action between the parties arising out of the Contract will be held in Broward County. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. No single or partial exercise by any party of any right, power or remedy hereunder shall preclude any other or further exercise thereof.

ARTICLE 15 – CONFLICT OF INTEREST

The Consultant represents that it has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in the Code of Ethics for Public Officers and Employees (Chapter 112, Part III, Florida Statutes). The Consultant further represents that no person having any interest shall be employed for said performance.

The Consultant shall promptly notify the City's representative, in writing, by certified mail, of a potential conflict(s) of interest for any prospective business association, interest or other circumstance, which may influence or appear to influence the Consultant's judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the Consultant may undertake and request an opinion of the City as to whether the association, interest or circumstance would, in the opinion of the City, constitute a conflict of interest if entered into by the Consultant. The City agrees to notify the Consultant of its opinion by certified mail within thirty (30) days of

receipt of notice by the Consultant. If, in the opinion of the City, the prospective business association, interest, or circumstance would not constitute a conflict of interest by the Consultant, the City shall so state in the notice and the Consultant shall at its option, enter into said association, interest or circumstance and it shall be deemed not a conflict of interest with respect to services provided to the City by the Consultant under the terms of this Contract.

ARTICLE 16 – EXCUSABLE DELAYS

The Consultant shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the Consultant or its subcontractors and without their fault or negligence. Such causes include, but are not limited to, acts of God; natural or public health emergencies; freight embargoes; and abnormally severe and unusual weather conditions.

Upon the Consultant's request, the City shall consider the facts and extent of any failure to perform the work and, if the Consultant's failure to perform was without it, or its subcontractors fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly; subject to the City's rights to change, terminate, or stop any or all of the work at any time.

ARTICLE 17 – DEBT

The Consultant shall not pledge the City's credit or attempt to make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien or any form of indebtedness. The Consultant further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

ARTICLE 18 – DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The Consultant shall deliver to the City's representatives for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared by and for the City under this Contract.

All written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the City or at its expense will be kept confidential by the Consultant and will not be disclosed to any other party, directly or indirectly, without the City's prior written consent unless required by a lawful order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the City's expense shall be and remain the City's property and may be reproduced and reused at the discretion of the City.

A. The City of Pompano Beach is a public agency subject to Chapter 119, Florida Statutes. The Consultant shall comply with Florida's Public Records Law, as amended. Specifically, the Consultant shall:

1. Keep and maintain public records required by the City in order to perform the service.

2. Upon request from the City's custodian of public records, provide the City with a copy of 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.

3. 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 Consultant does not transfer the records to the City.

4. Upon completion of the contract, transfer, at no cost to the City, all public records in possession of the Consultant, or keep and maintain public records required by the City to perform the service. If the Consultant transfers all public records to the City upon completion of the contract, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the contract, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records in a format that is compatible with the information technology systems of the City.

B. Failure of the Consultant to provide the above described public records to the City within a reasonable time may subject Consultant to penalties under 119.10, Florida Statutes, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

CITY CLERK
100 W. Atlantic Blvd., Suite 253
Pompano Beach, Florida 33060
(954) 786-4611
RecordsCustodian@copbfl.com

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated thereby.

ARTICLE 19 – CONTINGENT FEES

The Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the Consultant, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. Violation of this Article shall constitute a forfeiture of this Contract by Consultant.

ARTICLE 20 – ACCESS AND AUDITS

The Consultant shall maintain adequate records to justify all charges, expenses, and cost incurred in estimating and performing the work for at least three (3) years after completion of this Contract. The City shall have access to such books, records and documents as required in this section for the purpose of inspection or audit during normal business hours, at the Consultant's place of business.

ARTICLE 21 – NONDISCRIMINATION

The Consultant warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status and sexual orientation.

ARTICLE 22 – INTERPRETATION

The language of this Contract has been agreed to by both parties to express their mutual intent and no rule of strict construction shall be applied to either party hereto. The headings are for reference purposes only and shall not affect in any way the meaning or interpretation of this Contract. All personal pronouns used in this Contract shall include the other gender, and the singular, the plural, and vice versa, unless the context otherwise requires.

ARTICLE 23 – AUTHORITY TO PRACTICE

The Consultant hereby represents and warrants that it has and will continue to maintain all licenses and approvals required conducting its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the City's representative upon request.

ARTICLE 24 – SEVERABILITY

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent be held invalid or unenforceable, to remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

ARTICLE 25 – ENTIRETY OF CONTRACTUAL AGREEMENT

The City and the Consultant agree that this Contract, together with the Exhibits hereto, sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. It is further agreed that no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and off equal dignity herewith. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 26 – Modification of Work.

ARTICLE 26 – MODIFICATION OF SCOPE OF WORK

The City reserves the right to make changes in the Scope of Work, including alterations, reductions therein or additions thereto. Upon receipt by the Consultant of the City's notification of a contemplated change, the Consultant shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change; (2) notify the City of any estimated change in the completion date; and (3) advise the City if the contemplated change shall affect the Consultant's ability to meet the completion dates or schedules of this Contract.

If the City so instructs in writing, the Consultant shall suspend work on that portion of the Scope of Work affected by a contemplated change, pending the City's decision to proceed with the change.

If the City elects to make the change, the City shall initiate a Work Authorization Amendment and the Consultant shall not commence work on any such change until such written amendment is signed by the Consultant and the City Manager, and if such amendment is in excess of two hundred thousand dollars ($200,000.00), it must also first be approved by the City Commission and signed by the appropriate City Official authorized by the City Commission

The City shall not be liable for payment of any additional or modified work, which is not authorized in the manner provided for by this Article.

ARTICLE 27 – NOTICE

All notices required in this Contract shall be sent by certified mail, return receipt requested, to the following:

FOR CITY:

Greg Harrison
City Manager
City of Pompano Beach
Post Office Drawer 1300
Pompano Beach, Florida 33061
Email: Greg.Harrison@copbfl.com

FOR CONSULTANT:

Elizabeth Fujikawa, Vice President
2728 North University Drive
Coral Springs, FL 33065
Office: (954) 837-0030
Email: efujikawa@carollo.com

ARTICLE 28 – OWNERSHIP OF DOCUMENTS

All finished or unfinished documents, data, reports, studies, surveys, drawings, maps, models and photographs prepared or provided by the Consultant in connection with this Contract shall become property of the City, whether the project for which they are made is completed or not, and shall be delivered by Consultant to City within ten (10) days of notice of termination. If applicable, City may withhold any payments then due to Consultant until Consultant complies with the provisions of this section.

ARTICLE 29 – PROMOTING PROJECT OBJECTIVES

Consultant, its employees, subcontractors, and agents shall refrain from acting adverse to the City's interest in promoting the goals and objectives of the projects. Consultant shall take all reasonable measures necessary to effectuate these assurances. In the event Consultant determines it is unable to meet or promote the goals and objectives of the projects, it shall immediately notify the City and the City, may then in its discretion, terminate this Contract.

ARTICLE 30 – PUBLIC ENTITY CRIMES ACT

As of the full execution of this Contract, Consultant certifies that in accordance with §287.133, Florida Statutes, it is not on the Convicted Vendors List maintained by the State of Florida, Department of General Services. If Consultant is subsequently listed on the Convicted Vendors List during the term of this Contract, Consultant agrees it shall immediately provide City written notice of such designation in accordance with Article 27 above.

ARTICLE 31 – GOVERNING LAW; VENUE; WAIVER OF JURY TRIAL

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. The exclusive venue for any litigation arising from, related to, or in connection with this Agreement shall be in the Seventeenth Judicial Circuit in and for Broward County, Florida, or in the United States District Court for the Southern District of Florida, or the United States Bankruptcy Court for the Southern District of Florida, as applicable. BY ENTERING INTO THIS AGREEMENT, THE PARTIES EXPRESSLY WAIVE ANY RIGHTS EITHER PARTY MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS AGREEMENT.

ARTICLE 32 – EMPLOYMENT ELIGIBILITY

By entering into this Contract, the Consultant becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility." This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit or County Court no later than twenty (20) calendar days after the date of termination. If this Contract is terminated for a violation of the statute by the Consultant, the Consultant may not be awarded a public contract for a period of one (1) year after the date of termination

ARTICLE 33 - BINDING EFFECT

The benefits and obligations imposed pursuant to this Contract shall be binding and enforceable by and against the parties hereto.

ARTICLE 34 - SCRUTINIZED COMPANIES

By execution of this Agreement, in accordance with the requirements of F.S. 287.135 and F.S. 215.473, Consultant certifies that Consultant is not participating in a boycott of Israel. Consultant further certifies that Consultant is not on the Scrutinized Companies that Boycott Israel list, not on the Scrutinized Companies with Activities in Sudan List, and not on the Scrutinized Companies with Activities in Iran Terrorism Sectors List, nor has Consultant been engaged in business operations in Syria. Subject to limited exceptions provided in state law, the City will not contract for the provision of goods or services with any scrutinized company referred to above. In accordance with Section 287.135, Florida Statutes as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with any agency or local government entity for goods or services of:

A. Any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel; or

B. One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:

i. Is on the Scrutinized Companies with Activities in Sudan List of the Scrutinized Companies with Activities in Iran Terrorism Sectors List, created pursuant to Section 215.473, Florida Statutes; or

ii. Is engaged in business operations in Syria.

C. Submitting a false certification or being placed on a list created pursuant to Section 215.473, Florida Statutes relating to scrutinized active business operations in Iran after Consultant has submitted a certification, shall be deemed a material breach of contract. The City shall provide notice, in writing, to Consultant of the City's determination concerning the false certification. Consultant shall have five (5) days from receipt of notice to refute the false certification allegation. If such false certification is discovered during the active contract term, Consultant shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If Consultant does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Section 287.135, Florida Statutes, as amended from time to time.

ARTICLE 35 - AFFIDAVIT OF COMPLIANCE WITH ANTI-HUMAN TRAFFICKING LAWS

In accordance with section 787.06 (13), Florida Statutes, the undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury that:

Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes, entitled "Human Trafficking".

ARTICLE 36 - AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

A. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes.

B. The government of a foreign country of concern does not have a controlling interest in Entity.

C. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern.

D. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes.

E. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity.

F. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes.

G. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.

ARTICLE 37 – ANNUAL BUDGETARY FUNDING/CANCELLATION.

This Agreement and all obligations of the City hereunder requiring the expenditure of funds are subject to and contingent upon annual budgetary funding and appropriations by the City Commission.

THE REMAINDER OF THE PAGE IS INTENTIONALLY LEFT BLANK

"CITY"

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year hereinabove written.

Attest: **CITY OF POMPANO BEACH**

_____ By:_____
KERVIN ALFRED, CITY CLERK REX HARDIN, MAYOR

APPROVED AS TO FORM: By:_____
GREGORY P. HARRISON, CITY MANAGER

_____
MARK E. BERMAN, CITY ATTORNEY

(SEAL)

"CONSULTANT"

Carollo Engineers, Inc.

Witnesses:

Signature

Ana Maria Ricardo
Name Typed, Printed or Stamped

By: _____
Elizabeth Fujikawa, Vice President

Signature

JAFETH BAEZ
Name Type, Printed or Stamped

STATE OF Florida
COUNTY OF Miami Dade

The foregoing instrument was acknowledged before me, by means of □ physical presence or □ online notarization, this 6th day of February, 2026, Elizabeth Fujikawa, as Vice President of Carollo Engineers, Inc., a ~~California~~ Delaware corporation, authorized to do business in Florida, on behalf of the corporation, who is personally known to me or who has produced _____ as identification.

NOTARY'S SEAL:

SERI D. BARKER
Notary Public - State of Florida
Commission # HH 663023
My Comm. Expires Aug 4, 2029
Bonded through National Notary Assn.

NOTARY PUBLIC, STATE OF _____

SERI D. BARKER
(Name of Acknowledger Typed, Printed or Stamped)

HH663023
Commission Number

Exhibit A – Cover Page
1. Recommendation Tabulation
2. Solicitation RLI25-072
3. Addendum 1-5
4. Sunbiz

Exhibit "A"

RLI #: RLI25-072

Tentative City Commission Meeting Date*: TBD

RLI Title: Water and Reuse Treatment Plant Projects - CCNA

Notified: 145 # Downloaded: 14

of Responses Rec'd: 6 # of "No Bids": 1

For: Utilities (Department)

RFP Opening Date: OCTOBER 15, 2025

POSTING OF RFP RECOMMENDATION/TABULATION: RLI Recommendations and Tabulations will be posted in the eBid System IonWave on December 16, 2025, at 9:10 PM and will remain posted for 72 hours. Any person who may be adversely affected by the decision or intended decision shall file a notice of protest in writing within 72 hours of posting the notice of the decision or intended decision. The formal written protest shall be filed within ten (10) days after the date the notice of protest is filed. Failure to file a notice of protest or a formal written protest shall constitute a waiver of proceedings under this chapter. Section 120.57(3)(b), Florida Statutes, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based." Saturdays, Sundays, state holidays, and days when the City is closed shall be excluded from the computation of the 72-hour time period provided. Filings shall be at the office of the Director of Procurement and Contracts, 1010 NE 3rd Avenue, Pompano Beach, FL 33060. Any person who files an action protesting an intended decision shall post with the City, at the time of filing the formal written protest, a protest bond, payable to the City of Pompano Beach, Florida, in an amount equal to one percent (1%) of the estimated value of the contract. Failure to submit the protest bond within the time allowed for filing a bond shall constitute a waiver of the right to protest. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the protest bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

(*) The Cone of Silence, as stated in the solicitation, is in effect until the City Commission approves or rejects it. Confirm with the Purchasing Agent of record for the date the Cone of Silence has concluded.

RECOMMENDATION TABULATION

The City of Pompano Beach, Florida, issued Request for Letters of Interest (RLI25-072) Water and Reuse Treatment Plant Projects pursuant to the Consultants' Competitive Negotiation Act (CCNA). The solicitation closed with the receipt of six (6) Letters of Interest, all of which were reviewed and determined to be responsive and responsible submissions.

- ARCADIS US, INC.
- CAROLLO ENGINEERS, INC.
- HAZEN AND SAWYER.
- MCCAFFERTY BRINSON CONSULTING, LLC.
- STANTEC CONSULTING INC.
- TETRA TECH, INC.

On December 16, 2025, the appointed Evaluation Committee convened in accordance with the RLI, Procurement and Contracts Procedure Manual, and the Sunshine Law. The Committee conducted a comprehensive review of all responsive submissions, applying the published evaluation criteria to score and rank each firm.

Based on the evaluation results, the Evaluation Committee hereby recommends an award to the following five (5) highest-ranked firms (*) under RLI25-072 – Water and Reuse Treatment Plant Projects (CCNA):

FIRM	RANKING
MCCAFFERTY BRINSON CONSULTING, LLC.	1
CAROLLO ENGINEERS, INC.	2
ARCADIS US, INC.	3
HAZEN AND SAWYER (*)	4
STANTEC CONSULTING INC. (*)	5

(*) HAZEN AND SAWYER and STANTEC CONSULTING INC. received identical evaluation scores. Accordingly, the Evaluation Committee determined that both firms are recommended for the award.

By: **Michael Lee** Purchasing Agent

Date: 12/16/2025

REQUEST FOR LETTER OF INTEREST
RLI 25-072

WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

BID OPENING:
October 1st, 2025, 2:00 PM

VIRTUAL PRE-BIDDERS CONFERENCE:
September 10, 2025, 10:00 AM

For access, go to:
https://pompanobeachfl.gov/pages/meetings
.

Exhibit "A"

Issue Date: August 28, 2025

CITY OF POMPANO BEACH, FLORIDA
REQUEST FOR LETTER OF INTEREST (RLI)

RLI 25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response." (F.S. 287.057 (25)).

Any firm or lobbyist for a firm is prohibited from having any communications concerning any solicitation for a competitive procurement with any member of the City Commission, City Clerk, City Manager's Office, any Evaluation Committee Member, or any other City of Pompano Beach employee after Procurement and Contracts releases a solicitation to the General Public. All communications must go through the eBid System (IonWave) or the Purchasing Agent assigned to this solicitation. No other member of the City Commission, City Clerk, City Manager's Office, any Evaluation Committee Member, or any other City of Pompano Beach employee should be contacted concerning this RLI. Any information that amends any portion of this RLI received by any method other than an Addendum issued to the RLI is not binding on the City of Pompano Beach.

The City will receive proposals until **2:00:00 p.m. (EST), October 1, 2025**. Proposals must be submitted electronically through the eBid System (IonWave) on or before the due date and time as provided herein. Any proposal received after the due date and time specified will not be considered. Any uncertainty regarding the time a proposal is accepted will be resolved against the firm.

Firms must be registered on the City's eBid System in order to view the solicitation documents and respond to this Solicitation. The complete solicitation document can be downloaded for free from the eBid System as a PDF at https://www.pompanobeachfl.ionwave.net. The City is not responsible for the accuracy or completeness of any documentation the firm receives from any source other than the eBid System. The firm is solely responsible for downloading all required documents. To attend the virtual public meeting, go to https://www.pompanobeachfl.gov/pages/meetings to find the Zoom link.

Procurement and Contracts Department
City of Pompano Beach, Florida

SCHEDULE OF EVENTS

RLI NUMBER:	**RLI25-072**
RLI TITLE:	**WATER AND REUSE TREATMENT PLANT PROJECTS – CONTINUING CONTRACTS (CCNA)**
RELEASE DATE:	**8/28/2025, at 12:00 P.M.**
PREBIDDERS CONFERENCE VIRTUAL ZOOM MEETING	**9/10/2025, at 10:00 A.M.**
WRITTEN QUESTIONS AND INQUIRIES ARE DUE ON OR BEFORE:	**9/22/2025, at 12:00 P.M.**
RLI RESPONSES DUE DATE/TIME:	**10/1/2025, at 02:00 P.M.**
EVALUATION COMMITTEE MEETINGS	**TBD**
RECOMMENDATION FOR AWARD:	**TBD**
DIRECT ALL INQUIRIES TO:	**https://pompanobeachfl.ionwave.net**
E-PROPOSAL SUBMITTALS ONLY:	**https://pompanobeachfl.ionwave.net**
PROPOSAL VIRTUAL OPENING:	**https://www.pompanobeachfl.gov/meetings**

Non-Mandatory Pre-Proposal Meeting
The non-mandatory Pre-Proposal Meeting will be held via a Virtual Zoom Meeting on **9/10/2025, at 10:00 a.m**. (local). The Zoom link is available on the City's Meetings webpage: https://www.pompanobeachfl.gov/meetings

A. Introduction

The City is seeking professional companies/firms to work on various projects for the Water Treatment Plant. The projects range in magnitude from small-scale to extensive or specialized designs.

The types of projects to be undertaken may include, but are not limited to, the following:

- Reuse Water Treatment Plant Projects
- Water Treatment Plant Projects

B. Compliance with CCNA

As a result of this RLI, all services provided under the contract must adhere to the latest provisions of the Florida Consultants' Competitive Negotiation Act (CCNA), as outlined in Section 287.055, Florida Statutes, including any subsequent amendments. The maximum allowable costs for projects or studies conducted under this contract are subject to the limits set by the CCNA, which are periodically adjusted.

The Respondent acknowledges that all services under this contract shall comply with the latest provisions of the Florida Consultants' Competitive Negotiation Act (CCNA), pursuant to Section 287.055, Florida Statutes, and any amendments.

The maximum allowable costs for projects or studies conducted under this contract shall not exceed the limits

established by the CCNA as periodically adjusted. The limits are calculated annually based on the Consumer Price Index (CPI) or as determined by the Department of Financial Services.

Respondents are responsible for ensuring that their proposals align with the applicable statutory limits in effect at the time of submission and contract execution.

C. Scope of Services

The City intends to engage one or more qualified professional companies/firms to provide continuing consulting and specified works. The scope of services may include, but is not limited to, the following:

1. Prepare studies and recommend methods of operation and/or treatment.

2. Prepare preliminary design reports and/or design alternative recommendations. This may include various types of utility modeling, surveying, and field data analysis.

3. Prepare all required bidding/construction documents for projects. This will include survey, design plan, technical specification, and cost estimate preparations. Attend all required pre-design, design, bidding, and bid award meetings.

4. Attend the pre-bid conference, prepare possible bid addendums for plan revisions, and assist in making bid award recommendations for contracting/construction services.

5. Prepare all required permit applications and submittal packages as required for permit issuance of all agency permits (i.e., State, County, and City).

6. Provide construction engineering/management services for projects. Services during construction may include shop drawing/contractor submittal reviews and approvals, inspection and approval of project improvements, possible plan revisions, and review and approval of contractor pay applications.

7. Provide project close-out services. These may include preliminary and final project acceptance, preparation and approval of punch list items, and project certification as required by all permitting agencies.

8. Firms must have experience in municipal water and reuse treatment plant projects and be licensed to practice Professional Engineering in the State of Florida, Florida State Statute 471, by the Board of Professional Regulation.

D. Task/Deliverables

Tasks and deliverables will be determined per project. Each project shall require the City to receive a signed Work Authorization (WA) form from the awarded company/firm. The forms shall be completed and include the agreed-upon scope, tasks, schedule, cost, and deliverables for the project. The awarded company(s)/firm(s) must provide all applicable insurance requirements.

E. Term of Agreement/Contract

The contracts will be for five (5) years with no renewals, commencing upon award by the appropriate City officials.

F. Project Web Requirements:

1. This project will utilize the City-provided project management software, a web-based project management tool. This application is a collaboration tool that will allow all project team members continuous access through the Internet to essential project data and up-to-the-minute decision and approval status information. The City's project management software is a comprehensive project and program management system that the City will use to manage all project documents, communications, and costs between the lead consultant, sub-consultants, design consultants, contractors, and the City. City provided project management software includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all companies/firms selected to provide services for the City of Pompano Beach.

2. Lead and sub-consultants shall conduct project controls outlined by the City, project manager, and/or construction manager, utilizing City-provided project management software. The city shall provide the designated web-based application license(s) to the prime consultant and sub-consultants. No additional software will be required.

The lead consultant and sub-consultants shall log into the project website daily and, as necessary, be kept fully apprised of project developments and required action items. These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, City Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data, including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, safety SDS sheets, Substitution Requests, and the like, will be submitted in digital format via p.

G. Required Proposal Submittal

Sealed proposals shall be submitted electronically through the eBid System on or before the due date and time as provided herein. Firm shall upload the response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB, the response must be split and uploaded as two (2) separate files.

Information to be included in the proposal: To maintain comparability and expedite the review process, proposals must be organized as specified below, with the sections clearly labeled.

Title page:
Show the RLI number, the name of the Firm's company/firm, address, telephone number, name of the contact person, and the date.

Table of Contents:
Include a clear identification of the material by section and by page.

Letter of Transmittal:
Briefly state the Firm's understanding of the RLI solicitation and express a positive commitment to provide the services described herein. Please state the name(s) of the person(s) who will be authorized to make representations for the Firm, their title(s), office, and email addresses and telephone numbers. Please limit this section to two (2) pages.

Technical Approach:
Companies/Firms or teams shall submit their sample technical approach to the tasks described in the solicitation, including details of how each phase of the proposed project would be completed and how their company/firm proposes maintaining time schedules and cost controls.

References:
References for past projects aligning with the scope identified in this solicitation in the past seven years. Describe the scope of each project in physical terms and by cost, describe the Firm's responsibilities, and provide the contact information (name, email, telephone number) of an individual in a position of responsibility who can attest to the Firm's activities with the project.

Project Team Form:
Prepare and submit a completed "Project Team" form. This form aims to identify the proposed team's key members, including any specialty subconsultants. This information is intended for informational purposes only and does not constitute a contractual offer, obligation, or basis for procurement decisions.

Organizational Chart:
Specifically, identify the management plan (if needed) and provide an organizational chart for the project team. The Firm must describe, at a minimum, the basic approach to these projects, including the reporting hierarchy of staff and sub-consultants. Clarify the individual(s) responsible for coordinating separate components of the scope of services.

Statement of Skills and Experience of Project Team:
Describe the experience of the entire project team as it relates to the types of projects described in the Scope of Services section of this solicitation. Include the experience of the prime consultants as

well as other project team members, i.e., additional personnel, sub-consultants, branch office, team members, and other resources anticipated to be utilized for this project. Name specific projects [successfully completed within the past five (5) years] where the team members have performed similar projects previously.

Resumes of Key Personnel:
Include resumes for key personnel for prime and sub-consultants.

Office Locations:
Identify the office's location from which services will be rendered and the number of professional and administrative staff at the prime office. Also, identify the location of office(s) of the prime and/or sub-consultants that may be utilized to support any or all of the professional services listed above, as well as the number of professional and administrative staff at the prime office location.

If companies/firms are situated outside the local area (Broward, Palm Beach, and Miami-Dade counties), include a brief statement as to whether or not the companies/firms will arrange for a local office during the term of the agreement/contract, if necessary.

Litigation:
Disclose any litigation within the past five (5) years arising out of your company/firm's performance,

including status/outcome.

City Forms:
The Firm Information Page Form and any other required forms must be completed and submitted electronically through the City's eBid System. The City reserves the right to request additional information to ensure the Firm is financially solvent. It has sufficient financial resources to perform the agreement/contract and shall provide proof of its financial solvency. At its sole discretion, the City may ask for additional proof of financial solvency, including additional documents post-proposal opening and prior to evaluation that demonstrate the Firm's ability to perform the resulting agreement/contract and provide the required materials and/or services.

Reviewed and Audited Financial Statements:

Firms shall be financially solvent and appropriately capitalized to be able to service the City for the duration of the agreement/contract. Firms shall provide a complete financial statement of the company's/firm's most recent audited financial statements, indicating the organization's financial condition. Must be uploaded to the Response Attachments tab in the eBid System as a separate file titled "FINANCIAL STATEMENTS" and marked "CONFIDENTIAL."

Financial statements provided shall not be older than twelve (12) months before the date of filing this solicitation's response. The financial statements must be reviewed and submitted with any accompanying notes and supplemental information. The City of Pompano Beach reserves the right to reject financial statements in which the financial condition shown is twelve (12) months or more before the submittal date.

The City is a public agency subject to Chapter 119, Florida's Public Records Law, and must provide the public with access to public records; however, financial statements that are required as submittals to prequalify for a solicitation will be exempt from public disclosure.

The City reserves the right to request additional information to ensure the Firm is financially solvent. It has sufficient financial resources to perform the agreement/contract and shall provide proof of its financial solvency. At its sole discretion, the City may ask for additional proof of financial solvency, including additional documents post-proposal opening and prior to evaluation that demonstrate the Firm's ability to perform the resulting agreement/contract and provide the required materials and/or services.

A combination of two (2) or more of the following may substitute for audited financial statements:

1) Bank letters/statements for the past three (3) months
2) Balance sheet, profit and loss statement, cash flow report
3) IRS returns for the last two (2) years
4) Letter from CPA showing profits and loss statements (certified)

H. <u>Insurance</u>

The contractor/consultant shall not commence services under the terms of this agreement/contract until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the City's Risk Manager. If you are responding to a solicitation and have questions regarding the insurance requirements, don't hesitate to get in touch with the City's Procurement and Contracts Department at (954) 786-4098. If the agreement/contract has already been awarded, please direct any inquiries and proof of the requisite

insurance coverage to City staff responsible for oversight of the subject project/contract.

The contractor/Consultant is responsible for delivering to the City for timely review and written approval/disapproval Certificates of Insurance, which evidence that all insurance required hereunder is in full force and effect and which name the city as an additional insured on a primary basis on all such coverage.

Throughout the term of this agreement/contract, the City, by and through its Risk Manager, reserves the right to review, modify, reject, or accept any insurance policies required by this agreement/contract, including limits, coverages, or endorsements. The City reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as the City review or acceptance of insurance maintained by the contractor/consultant, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by the contractor/consultant under this agreement/contract.

Throughout the term of this agreement/contract, the contractor/consultant and all sub-contractors/sub-consultants or other agents hereunder shall, at their sole expense, maintain in full force and effect, the following insurance coverages and limits described herein, including endorsements:

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. The contractor/consultant further agrees to be responsible for the employment, control, and conduct of its employees and any injury sustained by such employees during their employment.

2. Liability Insurance.

   (a) Naming the City of Pompano Beach as an additional insured as the City's interests may appear, on General Liability Insurance only, relative to claims which arise from the firm's negligent acts or omissions in connection with contractor/consultant's performance under this agreement/contract.

   (b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

Type of Insurance		**Limits of Liability**
GENERAL LIABILITY:		Minimum $1,000,000 Per Occurrence and $2,000,000 Per Aggregate
* Policy to be written on a claim incurred basis		
X	comprehensive form	bodily injury and property damage
X		
X	premises - operations	bodily injury and property damage
X	explosion & collapse hazard	

	underground hazard	
X	products/completed	bodily injury and property damage
X		combined
	operations hazard	
X	contractual insurance	bodily injury and property damage
X		combined
X	broad form property	bodily injury and property damage
X	damage	combined
X	independent contractors'	personal injury
X		
X	personal injury	
X		
	sexual abuse/molestation	Minimum $1,000,000 Per Occurrence
___		and
		Aggregate

__	liquor legal liability	Minimum $1,000,000 Per Occurrence and Aggregate

AUTOMOBILE LIABILITY: Minimum $1,000,000 Per Occurrence and Aggregate. Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.

XX comprehensive form
XX owned
XX hired
XX non-owned

REAL & PERSONAL PROPERTY

___	comprehensive form	Agent must show proof they have this coverage.

EXCESS LIABILITY		Per Occurrence	Aggregate
___	other than umbrella	bodily injury and property damage combined	$1,000,000	$1,000,000

PROFESSIONAL LIABILITY		Per Occurrence	Aggregate
XX	* Policy to be written on a claims made basis	$1,000,000	$1,000,000

(c) If Professional Liability insurance is required, the Consultant agrees the indemnification and hold harmless provisions set forth in the agreement/contract shall survive the termination or expiration of the agreement/contract for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

CYBER LIABILITY	Per Occurrence	Aggregate
___ * Policy to be written on a claims made basis	$1,000,000	$1,000,000

XX Network Security / Privacy Liability
___ Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)
___ Technology Products E&O - $1,000,000 (only applicable for vendors supplying technology related services and or products)
___ Coverage shall be maintained in effect during the period of the agreement/contract and for not less than four (4) years after termination/ completion of the agreement/contract.

3. Employer's Liability. If required by law, the Consultant and all sub-subcontractors/sub-consultants shall, for the benefit of their employees, provide, carry, maintain, and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars ($100,000.00) per employee, Five Hundred Thousand Dollars ($500,000) per aggregate.

4. Policies: Whenever, under the provisions of this agreement/contract, insurance is required of the Awarded Firm, the Awarded Firm shall promptly provide the following:

(a) Certificates of Insurance evidencing the required coverage;
(b) Names and addresses of companies providing coverage;
(c) Effective and expiration dates of policies; and
(d) A provision in all policies affording thirty (30) days' written notice by a carrier of any cancellation or material change in any policy.

5. Insurance Cancellation or Modification. Should any required insurance policies be canceled before the expiration date or modified or substantially modified, the issuing company/firm shall provide thirty (30) days' written notice to the City.

6. Waiver of Subrogation. The awarded company/firm waives any and all rights of subrogation against the City, its officers, employees, and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement/contract to waive subrogation without an endorsement, then the awarded company/firm shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy that includes a condition to the policy not specifically prohibiting such an endorsement or voids coverage should the Awarded Firm enter into such an agreement/contract on a pre-loss basis.

I. Selection/Evaluation Process

A Selection/Evaluation Committee (Committee) will be appointed to select the most qualified company(ies)/ firm(s). The Committee will present its findings to the City Commission. The City Manager will approve a selection evaluation committee to assist in evaluating the Letter of Interest(s) received and to select the most qualified firm(s). All Letters of Interest will be evaluated by the Evaluation Committee and Procurement and Contracts staff based on the information submitted by the Submitting Firm(s) in response to this RLI. The Committee's findings will be presented to the City Commission.

Based upon the evaluation, the Evaluation Committee will recommend one Submitting Firm to the City Commissioners for the award and execution of an Agreement.

Proposals will be evaluated using the following criteria:

Line	Criteria	Points Range
1	**Prior experience of the company/firm with projects of a similar size and Complexity within past seven years.:** a) Number of similar projects b) Complexity of similar projects c) References from past projects performed by the company/firm per HB-683 d) Litigation within the past five (5) years arising out of the company's/firm's performance (list, describe outcome)	**0-40**
2	**Qualifications of personnel including sub-contractor/sub-consultants:** a) Organizational chart for project b) Number of technical staff c) Qualifications of technical staff: d) Number of licensed staff e) Education of staff f) Experience of staff on similar projects	**0-35**
3	**Proximity of the nearest office to the project location:** a) Location b) Number of staff at the nearest office	**0-15**
4	**Local Vendors Program Participation**	**0-10**
	TOTAL	**100**

NOTE:
Financial statements required as submittals to prequalify for a solicitation will be exempt from public disclosure; however, financial statements submitted to prequalify for a solicitation and not required by the City may be subject to public disclosure.

The City Commission has the authority to (including, but not limited to) approve the recommendation, reject the recommendation, and direct staff to re-advertise this solicitation or, review the responses themselves and/or request oral presentations and determine a ranking order that may be the same or different from what was originally presented to the City Commission.

Tie Breaker:
In case there is a tie for the highest-ranked firms, the recommendations shall be made by giving preference to the following items in this order:

1) Maintenance of a Drug-Free Workplace in accordance with the requirements of 287.087, F.S.
2) Local Vendor Program Participation
3) Coin Toss

Technicalities:
Failure to respond, provide detailed information, or provide requested proposal elements may reduce points in the evaluation process. The Committee may recommend rejecting any Letter of Interest containing material deviations from the RLI. The Committee may recommend waiving any irregularities and technicalities. If only one (1) responsive proposal is received, the Committee will proceed without scoring the one (1) responsive statement received and may recommend that Procurement and Contracts Department staff negotiate the best terms and conditions with that sole firm, or may recommend rejecting the proposal.

Committee's Recommendations:
The Evaluation Committee may recommend rejecting the Letter of Interest received or awarding the contract. A complete recording shall be made of each meeting (evaluation and negotiation session) conducted by the Committee by the Purchasing Agent. The Committee may choose to conduct one (1) or more exempt negotiation sessions with as many ranked responsive firms, in its sole judgment, as it deems appropriate before making its recommendation for award, starting with the highest-ranked firm first, then the second highest-ranked firm, and so on. The Committee also has the discretion to recommend negotiations with only a single responsive firm if the Committee chooses to do so. During any such negotiations, the City staff assigned to negotiate reserves the right to negotiate any term, condition, or specification during an exempt negotiation session with the highest-ranked responsive firm.

Determination of Award:
The City Commission shall consider the Committee's award recommendation for this RLI and may approve such a recommendation. The City Commission may also, at its option, reject the Evaluation Committee's recommendation, or it may also reject all statements received, in which case the City may choose to re-advertise this solicitation "as is" or by adopting a modified version.

J. Hold Harmless and Indemnification

Firm covenants and agrees that it will indemnify hold harmless the City, its officials, employees, volunteers and other authorized agents from and against any and all claims, demands, suits, damages, attorneys' fees, fines, losses, penalties, defense costs or liabilities suffered by the City to the extent caused by any negligent act,

omission, breach, recklessness or misconduct of Consultant and/or any of its agents, officers, or employees hereunder, including any inaccuracy in or breach of any of the representations, warranties or covenants made by the Consultant, its agents, officers and/or employees, in the performance of services of this agreement/contract. To the extent considered necessary by City, any sums due Consultant hereunder may be retained by City until all of City's claims for indemnification hereunder have been settled or otherwise resolved, and any amount withheld shall not be subject to payment or interest by City.

K. Right to Audit

Awarded company's/firm's records which shall include but not be limited to accounting records, written policies and procedures, computer records, disks and software, videos, photographs, sub-contract/sub-consultants files (including proposals of successful and unsuccessful firms), originals estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to the agreement/contract (all the foregoing hereinafter referred to as "records") shall be open to inspection and subject to audit and/or reproduction, during regular working hours, by City's agent or its authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the Awarded Firm r or any of its payees pursuant to the execution of the agreement/contract. Such records subject to the examination shall also include but are not limited to, those necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with the agreement/contract.

For the purpose of such audits, inspections, examinations, and evaluations, the City's agent or authorized representative shall have access to said records from the effective date of the agreement/contract, for the duration of the service, and until five (5) years after the date of final payment by the City to awarded company/firm pursuant to the agreement/contract.

The City agent or its authorized representative shall have access to the awarded company's/firm's facilities, all necessary records, and adequate and appropriate workspace to conduct audits in compliance with this article. The City agent or authorized representative shall give auditees reasonable advance notice of intended audits.

The awarded company/firm shall require all sub-contractors/sub-consultants, insurance agents, and material suppliers (payees) to comply with this article's provisions by inserting the requirements in any written agreement/contract. Failure to obtain such written agreements/contracts that include such provisions shall be reason to exclude some or all of the related payees' costs from amounts payable to the contractor/consultant pursuant to the agreement/contract.

L. Retention of Records and Right to Access

The City is a public agency subject to Florida Statutes Chapter 119. The awarded company/firm shall comply with Florida's Public Records Law, as amended. Specifically, the awarded company/firm shall:

1. Keep and maintain public records required by the City in order to perform the service;
2. Upon request from the City's custodian of public records, provide the City 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 Florida Statutes Chapter 119, or as otherwise provided by law;
3. Ensure that public records that are exempt or confidential and exempt from public record are maintained.
4. Requirements are not disclosed except as authorized by law;
5. 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 agreement/contract term and following completion of the agreement/contract if the awarded company/firm does not transfer the records to the City; and

6. Upon completion of the agreement/contract, transfer all public records in possession of the awarded company/firm at no cost to the City, or keep and maintain public records required by the City to perform the service. If the awarded company/firm transfers all public records to the City upon completion of the agreement/contract, the awarded company/firm shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the awarded company/firm keeps and maintains public records upon completion of the agreement/contract, the awarded company/firm shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format compatible with the City's information technology systems.

M. Communications

No negotiations, decisions, or actions shall be initiated or executed by the company/firm as a result of any discussions with any City employee. Only those communications in writing from the City may be considered duly authorized expressions on behalf of the City. In addition, only communications that are in writing from an authorized representative of the company/firm will be recognized by the City as duly authorized expressions on behalf of the respective company/firm.

N. No Discrimination

No discrimination shall be made on the basis of race, sex, color, age, religion, or national origin in the operations conducted under any agreement/contract with the City.

O. Independent Contractor

The awarded company/firm will conduct business as an independent contractor/consultant under the terms of the agreement/contract. Personnel services provided by the awarded company/firm shall be provided by employees of the awarded company/firm and subject to supervision by the awarded company/firm, and not as City officers, employees, or agents. Personnel policies, tax responsibilities, social security and health insurance, employee benefits, purchasing policies, and other similar administrative procedures applicable to services rendered under the agreement/contract shall be those of the awarded company/firm.

P. Staff Assignment

The City of Pompano Beach reserves the right to approve or reject, for any reason, Firm's staff assigned to this project at any time. Background checks may be required.

Q. Agreement/Contract Terms

The agreement/contract resulting from this solicitation shall include, but not be limited to, the following terms:

- The agreement/contract shall include, at a minimum, the entirety of this solicitation and the awarded proposal. The City of Pompano Beach City Attorney shall prepare it.
- If the City defends any claim, demand, cause of action, or lawsuit arising out of any act, action, negligent acts or negligent omissions, or willful misconduct of the contractor/consultant, its employees, agents, or servants during the performance of the agreement/contract, whether directly or indirectly, awarded

  The company/firm agrees to reimburse the City for all expenses, attorney's fees, and court costs incurred in defending such claim, cause of action, or lawsuit.

R. Waiver

It is agreed that no waiver or modification of the agreement/contract resulting from this solicitation or of any covenant, condition, or limitation contained in it shall be valid unless it is in writing and duly executed by the party to be charged with it. No evidence of any waiver or modification shall be offered or received in evidence in any proceeding, arbitration, or litigation between the parties arising out of or affecting the agreement/contract or the right or obligations of any party under it unless such waiver or modification is in writing, duly executed as previously provided. The parties agree that the provisions of this paragraph may not be waived except by a duly executed writing.

S. Survivorship Rights

The agreement/contract resulting from this solicitation shall be binding on and inure to the benefit of the respective parties and their executors, administrators, heirs, personal representatives, successors, and assigns.

T. Manner of Performance

Firm agrees to perform its duties and obligations under the agreement/contract resulting from this solicitation professionally and in accordance with all applicable local, federal, and state laws, rules, and regulations.

Firm agrees that the services provided under the agreement/contract resulting from this solicitation shall be provided by educated, trained, experienced, certified, and licensed employees in all areas encompassed within its designated duties. Firm agrees to furnish the City of Pompano Beach with all documentation, certification, authorization, license, permit, or registration currently required by applicable laws, rules, and regulations. Firm further certifies that it and its employees are now in and will maintain good standing with such governmental agencies and that it and its employees will keep all licenses, permits, registration, authorization, or certification required by applicable laws or regulations in full force and effect during the term of the agreement/contract. Failure of the Firm to comply with this paragraph shall constitute a material breach of the agreement/contract.

U. Acceptance Period

Proposals submitted in response to this solicitation must be valid for no less than one hundred and twenty (120) days from the closing date.

V. Conditions and Provisions

The completed proposal (together with all required attachments) must be submitted electronically to the City on or before the time and date as written herein. By electronically submitting a proposal, all firms shall agree to comply with all of this solicitation's conditions, requirements, and instructions as written or implied herein. All proposals and supporting materials submitted will become the property of the City.

Firm’s response shall not contain any alteration to the document posted other than entering data in the spaces provided or including attachments as necessary. By submission of a response, Firm affirms that a complete set of solicitation documents was obtained from the eBid System only, and no alteration of any kind has been made to this solicitation. Exceptions or deviations to this proposal may not be added after the due date.

All firms are required to provide all information requested in this solicitation. Failure to do so may result in the proposal being disqualified.

The City reserves the right to postpone or cancel this solicitation or reject all proposals if, in its sole discretion, it deems it to be in the City's best interest to do so.

The City reserves the right to waive any technical or formal errors or omissions and to reject all proposals or to award an agreement/contract for the items herein, in part or whole, if it is determined to be in the City's best interests to do so.

The City shall not be liable for any costs incurred by the Firm in preparing proposals or for any work performed therein.

W. Standard Provisions

1. Governing Law

Any agreement/contract resulting from this solicitation shall be governed by the laws of the State of Florida, and the venue for any legal action relating to such agreement/contract will be in Broward County, Florida.

2. Licenses

In order to perform public work, the awarded company/firm shall be licensed to do business in Florida, if an entity, and hold or obtain such Contractor and Business Licenses if required by State Statutes or local ordinances.

3. Conflict of Interest

To determine any possible conflict of interest, each Firm must disclose if any Elected Official, Appointed Official, or City Employee is also an owner, corporate officer, or an employee of the company/firm. Suppose any Elected Official, Appointed Official, or City Employee is an owner, corporate officer, or employee. In that case, the Firm must file a statement with the Broward County Supervisor of Elections pursuant to Florida Statute, Section 112.313.

4. Drug-Free Workplace

The awarded company(s)/firm(s) will be required to verify that they will operate a "Drug-Free Workplace" as outlined in Florida Statute, Section 287.087.

5. Public Entity Crimes

A person or affiliate who has been placed on the convicted vendor list following a conviction by a public entity crime may not submit a proposal on an agreement/contract to provide any goods or services to a public entity, may not submit a proposal on an agreement/contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to public entity, may not be awarded or perform work as a contractor, supplier, sub-contractor, consultant or sub-consultant under agreement/contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute, Section 287.017, for Category Two for a period of thirty-six (36) months from the date of being placed on the convicted vendor list.

6. Patent Fees, Royalties, And Licenses

Suppose the awarded company/firm requires or desires to use any design, trademark, device, material, or process covered by letters patent or copyright. In that case, the awarded company/firm and his surety shall indemnify and hold harmless the City from any and all claims for infringement because of the use of any such patented design, device, trademark, copyright, material, or process in connection with the work agreed to be performed and shall indemnify the City from any cost, expense, royalty or damage which the City may be obligated to pay because of any infringement at any time during or after completion of the work.

7. Permits

The Awarded Firm shall be responsible for obtaining all permits, licenses, certifications, etc., required by federal, state, county, and municipal laws, regulations, codes, and ordinances to perform the work required in these specifications and to conform to the requirements of said legislation.

8. Familiarity with Laws

It is assumed the selected company(ies)/firm(s) will be familiar with all federal, state, and local laws, ordinances, rules, and regulations that may affect/their services pursuant to this solicitation. Ignorance on the part of the company/firm will not relieve the company/firm from responsibility.

9. Withdrawal of Proposals

A company/firm may withdraw its proposal without prejudice, no later than the advertised deadline for submission of proposals by written communication to the Procurement and Contracts, 1190 N.E. 3rd Avenue, Building C, Pompano Beach, Florida 33060.

10. Composition of Project Team

Company(ies)/Firm(s) are required to commit that the principals and personnel named in the proposal will perform the services throughout the contractual term unless otherwise provided for by way of a negotiated agreement/contract or written amendment to same executed by both parties. No diversion or substitution of principals or personnel will be allowed unless a written request that sets forth the qualifications and experience of the proposed replacement(s) is submitted to and approved by the City in writing.

11. Invoicing/Payment

All invoices should be sent to the contract's user department. Per Florida Statutes, Chapter 218, payment will be made within forty-five (45) days after receipt of a proper invoice.

12. Public Records

a. The City of Pompano Beach is a public agency subject to Florida Statutes, Section 119. The awarded company/firm shall comply with Florida's Public Records Law, as amended. Specifically, the Awarded Firm shall:

   i. Keep and maintain public records required by the City in order to perform the service;

   ii. Upon request from the City's custodian of public records, provide the City 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 Florida Statutes, Section 119, or as otherwise provided by law;

   iii. 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 agreement/contract term and following completion of the agreement/contract if the awarded company/firm does not transfer the records to the City; and

   iv. Upon completion of the agreement/contract, transfer all public records in possession of the awarded company/firm at no cost to the City, or keep and maintain public records required by the City to perform the service. If the awarded company/firm transfers all public records to the City upon completion of the agreement/contract, the awarded company/firm shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the awarded company/firm keeps and maintains public records upon completion of the agreement/contract, the contractor/consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format compatible

with the City's information technology systems.

b. Failure of the contractor/consultant to provide the above-described public records to the City within a reasonable time may subject the contractor/consultant to penalties under Florida Statute Section 119.10, as amended.

PUBLIC RECORDS CUSTODIAN

IF THE CONTRACTOR/CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S/CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT/CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

CITY CLERK
100 W. Atlantic Blvd., Suite 253, Pompano Beach, Florida 33060
Phone: (954) 786-4611
RecordsCustodian@copbfl.com

X. Questions, Communication, and Addendums

All questions regarding this solicitation will be submitted using the Questions feature in the eBid System. Oral and other interpretations or clarifications will be without legal effect. Addendum/Addenda will be posted to this solicitation in the eBid System, and it is the firm's responsibility to obtain all addenda before submitting a response to this solicitation.

Issuing a written addendum or posting an answer in response to a question submitted using the Questions feature in the eBid System are the only official methods for interpretation, clarification, or additional information. If any addendum is issued to this solicitation, the addendum will be issued via the eBid System. Before submitting its response, each firm shall be responsible for contacting the City's Procurement and Contracts Department at (954) 786-4098 to determine if an addendum was issued and to make such an addendum a part of its proposal. Each addendum will be posted to the solicitation in the eBid System.

Y. Protest Procedures

The Protest Procedures established within the Procurement and Contracts Procedures Manual and Section 120.57, Florida Statutes, must be followed to file a valid Protest to this solicitation. Protests concerning the proposed solicitation award must be filed in writing with the Procurement and Contracts Director to be considered. They may only be filed by bidders or firms whose solicitation or award may aggrieve. The initial protest must be addressed to the following:

Director of Procurement and Contracts, City of Pompano Beach
1010 N.E. 3rd Avenue, Pompano Beach, Florida 33060

END OF THE RLI

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

September 4, 2025

ADDENDUM #1

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #1 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

Internal software settings have been adjusted to solve a technical issue.

The deadline for receiving written questions in the eBid System is **September 22, 2025, at 12:00:00 p.m. (local).**

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

September 8, 2025

ADDENDUM #2

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #2 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

All documents for this solicitation have been updated to allow access to the public.

The deadline for receiving written questions in the eBid System is **September 22, 2025, at 12:00:00 p.m. (local).**

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

October 1, 2025

ADDENDUM #3

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #3 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The link to a recording of the pre-proposal meeting is as follows:

https://copb-purchasing.s3.us-east-1.amazonaws.com/RLI25-072_Water+and+Reuse+Treatment+Plant+Projects+-+CCNA/Pre-Proposal+Meeting+for+RLI25-072+Water+and+Reuse+Treatment+Plant+Projects+(CCNA).mp4

RLI25-072_meeting_saved_chat.txt, which contains the meeting's participants, has been uploaded to the Attachments tab of the City's eBid System.

The Addendum-2 notice has been uploaded to the Attachments tab of the City's eBid System.

The deadline for receiving written questions in the eBid System has passed.

The deadline for accepting proposals in the eBid system is **October 1, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

October 1, 2025

ADDENDUM #4

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #4 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for receiving written questions in the eBid System has passed.

The deadline for accepting proposals in the eBid system has been extended to **October 8, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

October 2, 2025

ADDENDUM #5

RLI25-072 Water and Reuse Treatment Plant Projects - CCNA

To Whom It May Concern,

Addendum #5 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for accepting questions has been extended to **October 7, 2025, at 12:00 p.m. (local)**

The deadline for accepting proposals in the eBid system is **October 15, 2025, at 2:00:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English,
Purchasing Agent.

cc: website

RLI25-072 Addendum 5
Carollo Engineers Inc.
Supplier Response

Event Information

Number: RLI25-072 Addendum 5
Title: Water and Reuse Treatment Plant Projects - CCNA
Type: Request for Letters of Interest
Issue Date: 8/28/2025
Deadline: 10/15/2025 02:00 PM (ET)
Notes: Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the

Exhibit "A"

Carollo Engineers Inc. Information

Contact: Elizabeth Fujikawa
Address: 2728 North University Drive
Coral Springs, FL 33065
Phone: (954) 837-0030
Email: efujikawa@carollo.com
Web Address: www.carollo.com

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Elizabeth Fujikawa
Signature

efujikawa@carollo.com
Email

Submitted at 10/15/2025 10:43:51 AM (ET)

Requested Attachments

Letter of Interest

RLI 25-072 Pompano Beach Water and Reuse Treatment Plant Projects - Carollo.pdf

The electronic version of the Letter of Interest must be uploaded to the Response Attachments tab. Section G of the RLI includes the submittal requirements. Firm shall upload the response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB, the response must be split and uploaded as two (2) separate files.

Tier 1/ Tier 2 Local Business Form

T1_T2_Form-Carollo.pdf

To comply with the City's Local Business Program as a Tier-1 or Tier-2 vendor, you must complete the Tier 1/ Tier 2 Local Business form from the attachments tab and upload it here.

Proposer Information Page Form

Proposer Information Page Form-Carollo.pdf

Proposer Information Page

Qualification of Bidders Form

Qualifications Of Bidders Form-Carollo.pdf

Qualification of Bidders Form from the attachments tab must be completed and uploaded to this tab.

Local Business Program Forms

Local Business Program Forms.pdf

Local Business Program Forms (A, B, C, and D) from the attachments tab must be completed and uploaded to this tab.

Project Team Form

Project Team Form-Carollo.pdf

Submit a completed “Project Team” form. This form aims to identify the proposed team's key members, including any specialty subconsultants.

W9 Request for Taxpayer Identification Number and Certification

Carollo-W9-2025.pdf

Response Attachments

Financial Statements-Confidential-Carollo.pdf

Carollo Engineers, Inc. Reviewed and Audited Financial Statements

Bid Attributes

1 Local Business

Is your company a Local Business located within the City of Pompano Beach City Limits as required by the Local Business Program? (A copy of your current City of Pompano Beach Business Tax Receipt may be requested.)

No

2 Local Business Participation Percentage

If you have indicated local business participation on the Local Business Participation Form Exhibit A enter the percentage of the contract that will be performed by local Pompano Beach businesses.

20%

3 Drug-Free Workplace

STATEMENT UNDER SECTION 287.087, FLORIDA STATUTES ON DRUG-FREE WORKPLACE

REQUESTED INFORMATION BELOW IS ON THE ATTRIBUTES TAB FOR THE RFP IN THE EBID SYSTEM. PROVIDE THIS INFORMATION ELECTRONICALLY.

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991.

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

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

By choosing YES, I hereby certify that the company/firm complies with all the above requirements

Yes

4	**Conflict of Interest** Exhibit "A" For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.)Indicate Yes or No below with the drop down menu. No
5	**Vendor Certification Regarding Scrutinized Companies Lists (Any Dollar Amount)** Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to electronically sign on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs. ☑ Certified
6	**Terms & Conditions** Check the box indicating you agree to the terms and conditions of this solicitation. ☑ Agree
7	**Acknowledgement of Addenda** Check this box to acknowledge that you have reviewed all addenda issued for this solicitation. ☑ Yes

Detail by Entity Name

Foreign Profit Corporation
CAROLLO ENGINEERS, INC.

Filing Information

Document Number	F00000003055
FEI/EIN Number	86-0899222
Date Filed	05/25/2000
State	DE
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	05/21/2024
Event Effective Date	NONE

Principal Address

2795 Mitchell Drive
Walnut Creek, CA 94598

Changed: 03/05/2021

Mailing Address

2795 Mitchell Drive
Walnut Creek, CA 94598

Changed: 03/05/2021

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION, FL 33324

Name Changed: 02/21/2024

Address Changed: 02/21/2024

Officer/Director Detail

Name & Address

Title Secretary

Powers, Kristi J.
2795 Mitchell Drive
Walnut Creek, CA 94598

Title Treasurer

Wason, Ashwani K.
3150 Bristol St., Ste. 500
Costa Mesa, CA 92626

Title Senior Vice President

Baumberger, Laura
301 N. Cattleman Rd., Ste. 302
Sarasota, FL 34232

Title Director

Hart, Vincent S.
101 East Kennedy Blvd., Ste. 700
Tampa, FL 33602

Title Director, President, CEO

Narayanan, Balakrishnan
2795 Mitchell Drive
Walnut Creek, CA 94598

Title Director

Sobeck III, David C.
4600 E. Washington Blvd., Ste. 500
Phoenix, AZ 85034

Title Director

Cannon, Michelle E.
4600 E. Washington Blvd., Ste. 500
Phoenix, AZ 85034

Title Director

Hedlund, Troy A.
5355 Mira Sorrento Place, Suite 270
San Diego, CA 92121

Title Director

Exhibit "A"

Hoff, Scott P.
14755 Preston Road, Suite 500
Dallas, TX 75254

Title Director

Prudhel, Anne E.
2795 Mitchell Drive
Walnut Creek, CA 94598

Title VP

Richards, Matthew Scott
200 E. Robinson St., Ste. 1400
Orlando, FL 32801

Title VP

Paranjape, Sudhan
12724 Gran Bay Parkway West, Ste. 410
Jacksonville, FL 32258

Annual Reports

Report Year	Filed Date
2023	02/13/2023
2024	02/14/2024
2025	04/18/2025

Document Images

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09/13/2018 -- AMENDED ANNUAL REPORT	View image in PDF format
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Exhibit "A"

02/16/2018 -- ANNUAL REPORT	View image in PDF format
04/06/2017 -- ANNUAL REPORT	View image in PDF format
03/29/2016 -- ANNUAL REPORT	View image in PDF format
07/02/2015 -- AMENDED ANNUAL REPORT	View image in PDF format
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01/19/2012 -- ANNUAL REPORT	View image in PDF format
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07/13/2010 -- Amendment and Name Change	View image in PDF format
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04/07/2002 -- ANNUAL REPORT	View image in PDF format
04/11/2001 -- ANNUAL REPORT	View image in PDF format
05/25/2000 -- Foreign Profit	View image in PDF format

Exhibit B – Cover Page
1. Consultant's Response
2. Local Business Forms
3. Consultant's Proposal
4. Consultant's Rate Sheet

RLI25-072 Addendum 5
Carollo Engineers Inc.
Supplier Response

Event Information

Number: RLI25-072 Addendum 5
Title: Water and Reuse Treatment Plant Projects - CCNA
Type: Request for Letters of Interest
Issue Date: 8/28/2025
Deadline: 10/15/2025 02:00 PM (ET)
Notes: Pursuant to Section 287.055, Florida Statutes Consultant's Competitive Negotiation Act (CCNA), the City of Pompano Beach (the "City") invites professional companies/firms to submit a Letter of Interest (RLI) to provide engineering services at the Pompano Beach Water Treatment Plant on a continuing as-needed basis.

The selected firm shall demonstrate specific experience and capabilities and must have qualified personnel and expertise in the specified disciplines.

This RLI is subject to the "Cone of Silence," which imposes certain restrictions on communications concerning the RLI process.

The Cone of Silence shall take effect once this solicitation is released to the General Public. Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72 hours following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the

Exhibit "B"

Carollo Engineers Inc. Information

Contact: Elizabeth Fujikawa
Address: 2728 North University Drive
Coral Springs, FL 33065
Phone: (954) 837-0030
Email: efujikawa@carollo.com
Web Address: www.carollo.com

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Elizabeth Fujikawa
Signature

efujikawa@carollo.com
Email

Submitted at 10/15/2025 10:43:51 AM (ET)

Requested Attachments

Letter of Interest

RLI 25-072 Pompano Beach Water and Reuse Treatment Plant Projects - Carollo.pdf

The electronic version of the Letter of Interest must be uploaded to the Response Attachments tab. Section G of the RLI includes the submittal requirements. Firm shall upload the response as one (1) file to the eBid System. The file size for uploads is limited to 250 MB. If the file size exceeds 10 MB, the response must be split and uploaded as two (2) separate files.

Tier 1/ Tier 2 Local Business Form

T1_T2_Form-Carollo.pdf

To comply with the City's Local Business Program as a Tier-1 or Tier-2 vendor, you must complete the Tier 1/ Tier 2 Local Business form from the attachments tab and upload it here.

Proposer Information Page Form

Proposer Information Page Form-Carollo.pdf

Proposer Information Page

Qualification of Bidders Form

Qualifications Of Bidders Form-Carollo.pdf

Qualification of Bidders Form from the attachments tab must be completed and uploaded to this tab.

Local Business Program Forms

Local Business Program Forms.pdf

Local Business Program Forms (A, B, C, and D) from the attachments tab must be completed and uploaded to this tab.

Project Team Form

Project Team Form-Carollo.pdf

Submit a completed “Project Team” form. This form aims to identify the proposed team's key members, including any specialty subconsultants.

W9 Request for Taxpayer Identification Number and Certification

Carollo-W9-2025.pdf

Response Attachments

Financial Statements-Confidential-Carollo.pdf

Carollo Engineers, Inc. Reviewed and Audited Financial Statements

Bid Attributes

1 Local Business

Is your company a Local Business located within the City of Pompano Beach City Limits as required by the Local Business Program? (A copy of your current City of Pompano Beach Business Tax Receipt may be requested.)

No

2 Local Business Participation Percentage

If you have indicated local business participation on the Local Business Participation Form Exhibit A enter the percentage of the contract that will be performed by local Pompano Beach businesses.

20%

3 Drug-Free Workplace

STATEMENT UNDER SECTION 287.087, FLORIDA STATUTES ON DRUG-FREE WORKPLACE

REQUESTED INFORMATION BELOW IS ON THE ATTRIBUTES TAB FOR THE RFP IN THE EBID SYSTEM. PROVIDE THIS INFORMATION ELECTRONICALLY.

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991.

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

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

By choosing YES, I hereby certify that the company/firm complies with all the above requirements

Yes

4	**Conflict of Interest** Exhibit "B" For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.)Indicate Yes or No below with the drop down menu. No
5	**Vendor Certification Regarding Scrutinized Companies Lists (Any Dollar Amount)** Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to electronically sign on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs. ☑ Certified
6	**Terms & Conditions** Check the box indicating you agree to the terms and conditions of this solicitation. ☑ Agree
7	**Acknowledgement of Addenda** Check this box to acknowledge that you have reviewed all addenda issued for this solicitation. ☑ Yes

LOCAL BUSINESS EXHIBIT "A"
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: 25-072 Water and Reuse Treatment Plant Projects Continuing Contracts (CCNA)

Prime Contractor's Name: Carollo Engineers, Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
DK Architects, 911 E Atlantic Boulevard, Suite 101, Pompano Beach, FL 33060	Andre Capi 954-941-3329 X1	Architecture	7
Engenuity Group, Inc., 300 Lock Road, Suite 302, Deerfield Beach, FL 33442	C. Andre Rayman 954-895-0174	Surveying	3
Terracon Consultants, Inc., 3347 NW 55th Street, Fort Lauderdale, FL 33309	Hugo Soto, P.E. 954-741-8282	Geotechnical	10

LOCAL BUSINESS EXHIBIT "A"

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER 25-072

Federal I.D.# 86-0899222

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Liz Fujikawa, PE, LEED AP, BCEE	41	MSE Environmental Engineering BS Chemistry
Project Manager	Tung Nguyen, PE, PMP	17	BS Civil Engineering
Asst. Project Manager			
Other Key Member	Angelica Gregory, PhD, PE	22	PhD Civil Engineering, MS Civil and Environmental Engineering, BS Civil Engineering
Other Key Member	Daniel Garcia, PE, PNV SP	28	MBA International Finance and Global Business, MS Civil Engineering, BS Civil Engineering,

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	Engenuity Group 300 Lock Road,Suite 302, Deerfield Beach, FL 33442	C. Andre Rayman, PSM
Landscaping		
Engineering		
Other Key Member	DK Architects 911 E Atlantic Boulevard, Suite 101, Pompano Beach, FL 33060	Andre Capi, RA, LEED AP
Other Key Member	Terracon 3347 NW 55th Street, Fort Lauderdale, FL 33309	Hugo Soto, PE
Other Key Member		
Other Key Member		

(use attachments if necessary)

LOCAL BUSINESS EXHIBIT “B”
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number RLI 25-072

TO: Carollo Engineers, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual
X a corporation
_____ a partnership
_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Surveying Services

at the following price: _____

9/26/2025
(Date)

Engenuity Group, Inc.
(Print Name of Local Business Contractor)

300 Lock Road, Suite 302
(Street Address)

Deerfield Beach FL 33442
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT “B”

LOCAL BUSINESS EXHIBIT “C

LOCAL BUSINESS
UNAVAILABILITY FORM

BID # 25-072

I,_____
(Name and Title)

of_____, certify that on the _____day of

_____, _____, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
NOT APPLICABLE		

Said Local Businesses:

___ Did not bid in response to the invitation

___ Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

RLI 25-072 **,** Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA)
(number) (RLI name)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the RLI. I have read the RLI and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) Liz Fujikawa, PE, BCEE, LEEP AP Title Senior Client Service Manager

Company (Legal Registered) Carollo Engineers, Inc.

Federal Tax Identification Number 86-0899222

Address 2728 North University Boulevard, Building 2700

City/State/Zip Coral Springs, FL 33065

Telephone No. 954-837-0030 Fax No. N/A

Email Address efujikawa@carollo.com

Bidder Company Name Carollo Engineers, Inc.

Qualifications Of Bidders

To demonstrate qualifications to perform the work, and to be considered for award, each bidder shall submit at least three (3) business customer references. Provide information for business customers for whom you have performed work of this nature which you list as references, excluding the City of Pompano Beach. (Use an attachment if necessary.)

1. Name and address of customer: Broward County
   2555 West Copans Road, Pompano Beach, FL 33069
   Contact person name, telephone number and email address: Mike Saltzman
   954-831-0736, lsaltzman@broward.org
   Description of services provided and date(s) of service: 2019-2024
   Provided planning, design, permitting & construction-phase services, including upgrades and construction of pumping stations, storage tanks and chemical feed systems.

2. Name and address of customer: City of Boynton Beach
   100 East Boynton Beach Boulevard, Boynton Beach, FL 33435
   Contact person name, telephone number and email address: Keith Webber
   561-742-6400, webberk@bbfl.us
   Description of services provided and date(s) of service: 2018 - Ongoing. Provided water and wastewater treatment plant improvements, hydraulic modeling, permitting, asset management, utility infrastructure planning and design of system expansions.

3. Name and address of customer: Sarasota County
   1660 Ringling Boulevard, Sarasota, FL 34236
   Contact person name, telephone number and email address: Greg Rouse
   941-861-0548, grouse@scgov.net
   Description of services provided and date(s) of service: 2006 - Ongoing
   Provided comprehensive utility system planning, studies, evaluations, hydraulic modeling, strategic business planning, permit renewals, SCADA, regulatory compliance and construction oversig

LOCAL BUSINESS EXHIBIT “D”
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # 25-072

1. What portions of the contract have you identified as Local Business opportunities?

Geotechnical, Survey, and Architecture

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

Yes, the RLI # 25-072 was provided.

3. Did you send written notices to Local Businesses?

____ Yes ___X__ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes ____X___ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

We reached out to local, highly qualified, subconsultants that we have strong working relationships with.

7. List the Local Businesses you will utilize and subcontract amount.

DK Architects $ 7%

Engenuity Group Inc. $ 3%

Terracon Consultants, Inc. $ 10%

8. Other comments: _____

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

__X__ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

__X__ My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

_____ My firm does not qualify as a Tier 2 Vendor.

I certify that the above information is true to the best of my knowledge.

10/1/2025
(Date)

Carollo Engineers, Inc.
(Name of Firm)

BY: _____
(Name)

Liz Fujikawa, PE, BCEE, LEED AP

Prepared for Exhibit "B"
CITY OF POMPANO BEACH

CONTINUING CONTRACTS (CCNA) - RLI 25-072

Water and Reuse Treatment Plant Projects

QUALIFICATIONS / October 2025



carollo®

Title Page

RLI Name & Number

Water and Reuse Treatment Plant Projects – Continuing Contracts (CCNA) - RLI 25-072

Company Name

Carollo Engineers, Inc.

Office Address

2728 North University Drive, Building 2700
Coral Springs, FL 33065
954-837-0030

Contact Person

Elizabeth Fujikawa, PE, BCEE, LEED AP
Senior Client Service Manager
561-868-6409
efujikawa@carollo.com

Date

October 15, 2025

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Reviewed and Audited Financial Statements
Separate Attachment *(submitted as a separate pdf)*

Letter of Transmittal



Exhibit "B"

2728 North University Drive, Building 2700,
Coral Springs, Florida 33065
954.837.0030
carollo.com

October 15, 2025

City of Pompano Beach
Purchasing Office
1190 NE 3rd Avenue, Building C
Pompano Beach, FL 33060

Subject: Response to RLI 25-072 Water and Reuse Treatment Plant Projects Continuing Contracts (CCNA) - 25-072

Dear Members of the Selection Committee,

The City's commitment to reliable, sustainable water infrastructure is not just about individual projects—it's about building a resilient system that supports the community's health, growth, and future. The City's focus on continuous improvement, regulatory compliance, and operational excellence drives this initiative, aiming to deliver safe, high-quality water and reuse services for residents and businesses now and for years to come.

The City faces unique challenges in this endeavor. Evolving regulatory requirements, aging infrastructure, and the need for innovative, cost-effective solutions are at the forefront. The City's priorities include maintaining uninterrupted service, optimizing operational efficiency, and meeting stringent permitting and reporting standards. The complexity of managing multiple projects—ranging from small-scale upgrades to specialized designs—demands a partner who can navigate technical, regulatory, and logistical hurdles while maintaining transparency and collaboration. The City's expectation for seamless integration with its project management systems and a proven track record in municipal water and reuse projects sets a high bar for any consultant.

Carollo's approach is tailored to address these specific challenges. The team leverages deep municipal experience and a collaborative project delivery model to streamline every phase—from studies and design to permitting, construction management, and closeout. Carollo's technical expertise in utility modeling, field data analysis, and regulatory compliance translates into actionable solutions that minimize risk and maximize value.

Carollo stands apart for the following reasons:

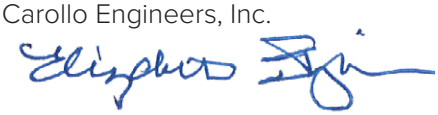
- **Proven Partnership:** Since 2012, Carollo has worked continuously with City staff to deliver successful projects for the City, including the Electrical Master Plan, Water Master Plan, Transfer Pump Station improvements, and currently the implementation of the Electrical Master Plan, consistently meeting budget and schedule targets.
- **Specialized Expertise:** Carollo's team includes licensed Florida Professional Engineers with extensive experience in water and reuse treatment plant projects, regulatory permitting, and construction management.

- **Innovative Solutions:** The firm's work on evaluating lime softening versus nanofiltration and implementing advanced hydraulic modeling demonstrates a commitment to forward-thinking, cost-effective strategies.
- **Seamless Integration:** Carollo's familiarity with the City's systems and processes enables efficient collaboration and rapid response to project needs.
- **Client-Focused Service:** Carollo's long-standing relationship with City staff reflects a culture of partnership, responsiveness, and respect for the City's operational preferences.

Carollo Engineers appreciates the opportunity to submit its Statement of Qualifications for the City of Pompano Beach's Continuing Contract for Water and Reuse Treatment Plant Projects. The team is fully committed to performing the proposed services in accordance with all requirements of RLI 25-072, including compliance with the Florida Consultants' Competitive Negotiation Act, maintaining all required insurance, and providing all necessary documentation. Carollo looks forward to building on the foundation of past successes and joining with the City to turn a series of small steps into great achievements—together.

Sincerely,

Carollo Engineers, Inc.



Elizabeth Fujikawa, PE, BCEE, LEED AP
Principal-in-Charge, Contract Manager
Vice President

Authorized to Make Representations

Elizabeth Fujikawa, PE, BCEE, LEED AP
Vice President, and
Senior Client Service Manager

Coral Springs, Florida

efujikawa@carollo.com

561-868-6409

Technical Approach



Technical Approach

Where local insight meets proven expertise in water solutions.

The Carollo team combines deep local insight with technical expertise to deliver practical, cost-effective solutions. We bring the innovation and reliability needed to help the City meet its most pressing water needs, just as we've done for communities throughout South Florida.

Our Approach to the Scope of Work

The City faces significant challenges in potable water supply, treatment, and reuse. Our team has the expertise, resources, and proven solutions to address these challenges effectively and sustainably.



Innovative Solutions Grounded in Local Experience

We are recognized for delivering innovative, technically sound approaches that are practical, cost-effective, and designed for long-term performance. Many of the strategies outlined in this proposal introduce fresh perspectives that go beyond traditional methods. By combining local knowledge with technical innovation, we provide solutions that are not only forward-thinking but also directly aligned with the City's specific needs.



Proven Experience with the City

Our experience includes direct support for the City through a range of projects, such as:

- Renewal of the reuse plant permit.
- Development of an electrical master plan and design of electrical upgrades.
- Long-range alternatives study for water treatment options.
- HVAC improvements at a pump station.
- Upgrades to the transfer pump station.
- Concentrate disposal evaluation.

This track record demonstrates our ability to support the City with both immediate needs and long-term planning.



We are Trusted Across South Florida

We have gained the trust of neighboring municipalities and agencies, including Broward and Palm Beach Counties, Boynton Beach, Delray Beach, Margate, Sunrise, Miami-Dade Water and Sewer Department, and South Florida Water Management District. Each has relied on us to deliver some of their most complex and high-value projects, reinforcing our reputation for excellence in service and results.

A Proven Approach that is Tailored for Your Needs

Over the past 12 years, we have learned a great deal about the City, its facilities and systems, and its operations. Our approach emphasizes high-quality service, responsiveness, and the integration of advanced solutions tailored to project needs.



Liz Fujikawa, PE, BCEE, is our designated Principal-in-Charge/Contract Manager and will serve as the primary point of contact when a work assignment is requested by the City.

Approach to Task Order Development

As shown in the graphic below, continuing engineering service contracts require a commitment to responsive, high-value service and the flexibility to efficiently resolve a client's project challenges by providing the "right" expertise.

Just as important, we have the resources to staff the project quickly and move it through all phases of delivery on schedule, including quality reviews. The City's project manager only needs to review the deliverables and monitor progress, freeing up time for other responsibilities.

Rapid Internal Processes to Develop Work Assignments

Following the initial request, Carollo will:

Communicate with you to gain an understanding of the assignment scope, schedule, budget, and work requirements. The contract manager, Liz Fujikawa, will identify a project manager, and they will work through the following steps together.

1. Clarify the scope, schedule, and budget with your staff through phone conversations and/or site tours and meetings as needed.
2. Identify the task lead, project team members, and any subconsultants needed for the work.

Then the Carollo team will submit a proposal that includes:

3. Specialty requirements of each work authorization and a statement of project understanding as identified by the proposed team members.
4. A scope of work including a listing of deliverables and work activities, schedule, and the estimated level of effort.

Following submission of our work assignment, we anticipate meeting with your project manager to discuss the approach. After the meeting, the team will fully document the goals and objectives, scope, schedule, and budget by incorporating comments and making any necessary changes. We will then:

5. Review the scope and fee to confirm compliance with Carollo procedures and verify they meet the needs of the City.
6. Submit the final scope and fee and finalize team members, including subconsultants' roles and responsibilities.

Prepare a Work Plan

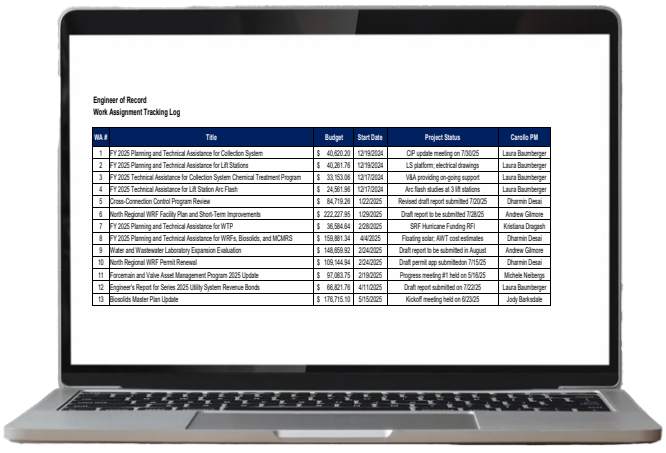
- ☑ Detailed scope of services including a listing of deliverables, work activities, and assumptions.
- ☑ Estimated level of effort and fee with a breakdown of hours by task and team member.
- ☑ Project schedule with key milestones defined.

Engaging City Representatives

The success of any project hinges on effectively engaging City staff. We respect your time, and our rigorous project management procedures will allow us to keep you efficiently engaged.

Carollo's approach to the City's needs is based on communication and collaboration with your staff. Our local team will partner with you to make the best use of available data, help you consider various scenarios, act as a sounding board, and share new ideas to improve overall performance and efficiency. The current needs of the City present the perfect opportunity to look at the utility system holistically, to be open to ideas, and to develop and implement solid solutions to address the City's current and future needs. We are prepared to work with the City to make cost effective use of your information systems, while also presenting fresh ideas for improvement. Our recent and long-term work with the City, are examples of our commitment—**responsive, hands-on approach, and personal commitment.**

Additionally, with continued communication and gained understanding, we are better prepared to support the City with any emergency needs that may arise.



Engineer of Record
Work Assignment Tracking Log

WA #	Title	Budget	Start Date	Project Status	Carollo PM
1	FY 2025 Planning and Technical Assistance for Collection System	$ 40,820.20	12/19/2024	CIP update meeting on 7/30/25	Laura Baumberger
2	FY 2025 Planning and Technical Assistance for Lift Stations	$ 40,261.76	12/19/2024	LS platform, electrical drawings	Laura Baumberger
3	FY 2025 Technical Assistance for Collection System Chemical Treatment Program	$ 33,153.06	12/17/2024	V&A providing on-going support	Laura Baumberger
4	FY 2025 Technical Assistance for Lift Station Arc Flash	$ 24,561.96	12/17/2024	Arc flash studies at 3 lift stations	Laura Baumberger
5	Cross-Connection Control Program Review	$ 84,719.26	1/22/2025	Revised draft report submitted 7/20/25	Dharmin Desai
6	North Regional WRF Facility Plan and Short-Term Improvements	$ 222,227.95	1/29/2025	Draft report to be submitted 7/28/25	Andrew Gilmore
7	FY 2025 Planning and Technical Assistance for WTP	$ 36,584.64	2/28/2025	SRF Hurricane Funding RFI	Kristiana Dragash
8	FY 2025 Planning and Technical Assistance for WRFs, Biosolids, and MCMRS	$ 159,881.34	4/4/2025	Floating solar, AWT cost estimates	Dharmin Desai
9	Water and Wastewater Laboratory Expansion Evaluation	$ 148,659.92	2/24/2025	Draft report to be submitted in August	Andrew Gilmore
10	North Regional WRF Permit Renewal	$ 109,144.94	2/24/2025	Draft permit app submitedon 7/15/25	Dharmin Desai
11	Forcemain and Valve Asset Management Program 2025 Update	$ 97,883.75	2/19/2025	Progress meeting #1 held on 5/16/25	Michele Nelsberg
12	Engineer's Report for Series 2025 Utility System Revenue Bonds	$ 66,821.76	4/11/2025	Draft report submitted on 7/22/25	Laura Baumberger
13	Biosolids Master Plan Update	$ 176,715.10	5/15/2025	Kickoff meeting held on 6/23/25	Jody Bankstale

Carollo project managers propose to maintain and submit a work assignment tracking log to keep you fully informed and engaged. This log can be reviewed and discussed at monthly meetings with Utilities management.



Carollo works closely with your staff to provide Utilities regulatory and permitting support.

Project Meetings and Workshops

Our most efficient way to communicate with you as a team is through meetings. We will conduct regular meetings to present critical information regarding the project to the City's stakeholders and reach a consensus. Building consensus with the stakeholders is integral to any successful project.

For each project meeting or workshop, we will prepare an agenda, which we will forward in advance so staff are aware of the topics to be discussed and the people required to make the necessary decisions can attend. We will prepare meeting notes and document the discussion.

Project Communication

Communication is vital to successful projects. Our local team is near the City and is eager to assist or discuss items as the need arises. As we have demonstrated in the past, Liz and other members of our team are available to you anytime through phone, text, email, or in-person to discuss issues or assist with immediate needs.

The backbone of our project manager's ability to coordinate the work of discipline engineers and subconsultants is strong communication, supported by progress meetings to coordinate activities. All communication with subconsultants will be routed through Liz or the project manager for a specific work assignment. This method will allow all parties to be kept up to date on the latest work.

Staying Connected is Essential

All of our employees are currently equipped with collaboration platforms such as Microsoft Teams. While we enjoy in-person meetings and communication, we understand that projects can also be completed efficiently using these collaboration platforms that allow individuals to effectively manage their time.

We will employ the following collaboration tools and techniques for continual project progress:

- **Maintain Local Presence** Our core team members is located in the region and is available on short notice. Carollo's core management team are located in Broward County along with 13 other Carollo staff, all of whom are focused on water.
- **Facilitate Regular Check-Ins** When face-to-face contact is limited for whatever reason, our management team can provide weekly or monthly virtual check-in conferences to make certain the project work progresses smoothly.
- **Offer Video Conferencing** Our team and technical experts, regardless of their home office location, are available whenever needed through virtual collaboration platforms to present technical information and resolve project challenges.
- **Provide 3D Visualization** To enhance remote understanding of the conceptual designs, we use our Revit models to present proposed facility modifications and construction sequences.

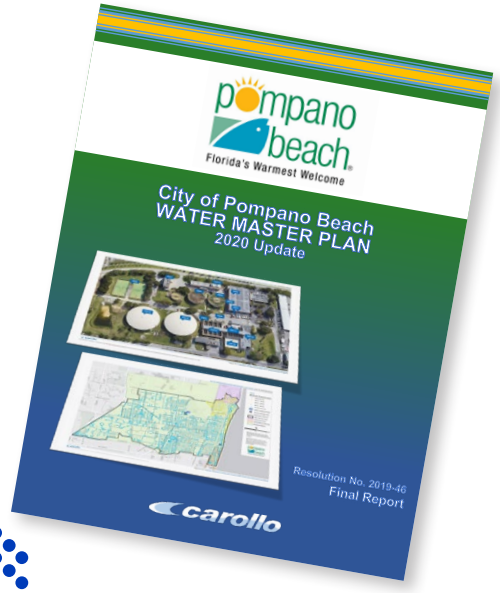


Carollo's core management team, Liz Fujikawa, PIC/ contract manager, Technical Advisors Bob Cushing, Lyle Munce, Tom Seacord, and Eva Steinle-Darling, and Project Managers Tung Nguyen, Angelica Gregory, and Dan Garcia provide the leadership and specialized expertise essential for delivering your projects on time, on budget, and to the highest standards.

Leading the Way in **Master Planning**

Carollo is an industry leader in the development of award-winning comprehensive integrated master plans for agencies facing a variety of complex issues.

We have developed comprehensive master plans for cities and municipal agencies facing a variety of complex issues. We have demonstrated our ability to simplify complex technical, regulatory, and institutional issues to produce clear, concise, cost-effective, and implementable recommendations. Our projects range from small planning studies to comprehensive, regional master plans.

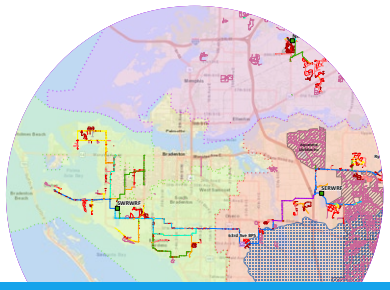


Having completed the Water Master Plan Updates for Pompano Beach, Carollo is uniquely positioned to partner with you. This plan reviewed water demand projections, assessed the water treatment facilities, and updated the distribution system hydraulic model to recommend capital improvements to support current operations and maintenance for projected water demands for the next 20 years.



2020 Water Master Plan Update
Pompano Beach, Florida

The City asked Carollo to update the 2020 Water Master Plan to align with the WSFWP 2025 Update and the latest Lower East Coast plan from the South Florida Water Management District. The Master Plan will cover a 20-year period and consider an ultimate scenario beyond that, using the same projection methodology as the recent Consumptive Use Permit renewal. New water demand projections from the WSFWP 2025 Update, prepared under a separate assignment, will be used.



Reclaimed Water Master Plan
Manatee County, Florida

Manatee County's reclaimed water system serves agricultural, residential, and commercial users. It comprises three wastewater treatment facilities permitted for a total of 33.5 mgd. It includes large reservoir storage facilities for seasonal storage and demand balancing, and deep injection wells. Carollo evaluated the water balance and used a hydraulic model to improve the reclaimed water distribution system, transferring water from the southwest supply to the developing north.



Integrated Regional Water Supply Plan 2025 Update
Peace River Mansota Regional Water Supply Authority, Florida

Carollo recently completed the Authority's Integrated Regional Water Supply Plan, which encompasses the planning of future potable water supplies for the four-county region for the next 20 years. The plan includes future supply allocations to Sarasota County as well as a future transmission main from the Authority's southern system to the Venice Gardens and Carlton WTPs.

A Long Track Record of **Water Treatment Success**

The City will benefit from nationally-recognized experts in membrane treatment technologies. Carollo has designed treatment technologies that span from tried-and-true conventional treatment to advanced treatment technologies to address our clients' challenges. This includes facilities featuring membrane treatment such as nanofiltration (NF), reverse osmosis (RO), microfiltration (MF), ultrafiltration (UF), electrodialysis reversal (EDR), ion exchange (IX), advanced disinfection/oxidation, ozone, UV disinfection, chlorine dioxide, as well as biologically active filtration for taste and odor (T&O) reduction, perchlorate reduction, and total organic carbon (TOC) reduction. Our experts have been involved in designing and providing their invaluable knowledge to produce a high quality product for clients throughout Florida and the US.

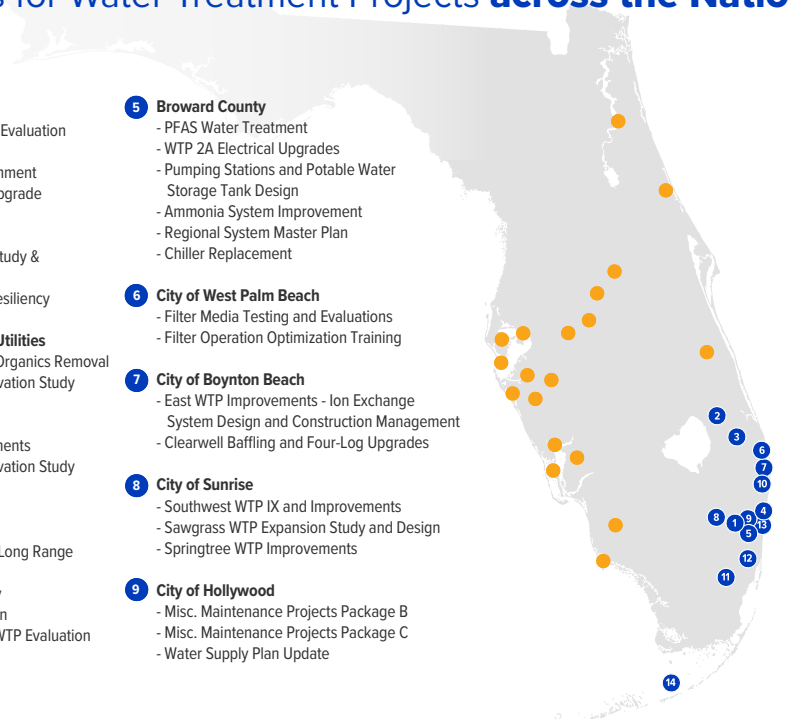


Carollo is providing study, design, and construction phase services for the North Lee County WTP Expansion to 15 mgd. This is Carollo's third RO expansion project for Lee County Utilities. Others include the Pinewoods WTP Rehabilitation and Expansion in 2008 and the North Lee County Rehabilitation and Expansion in 2012, a testament to the quality of Carollo's work and client service.

Membranes

Carollo is one of the premier designers of membrane facilities in the US. We've achieved this through a combination of our own experience as well as paying attention to the successes and failures of our peers in the industry. Our membrane experience in Florida alone represents more than 24 projects with a combined capacity of more than 300 mgd. Carollo completed an evaluation at Sarasota County's Carlton WTP to assess the feasibility of rehabilitating the EDR system or converting it to RO. The County elected to rehabilitate its EDR system and recently completed the upgrade, increasing the facility EDR capacity to 15 mgd.

Carollo has **Extensive Experience** with Engineering Permitting, Studies and Designs for Water Treatment Projects **across the Nation and in Florida**



1. **Pembroke Pines**
   - PFAS Treatment Feasibility Evaluation
   - IX Media Sampling
   - Lime Feed System Refurbishment
   - Tonka IX Instrumentation Upgrade
2. **SFWMD**
   - RO Concentrate Recovery Study & Demonstration Pilot
   - Sea Level Rise and Flood Resiliency
3. **Palm Beach County Water Utilities**
   - Design of MIEX System for Organics Removal
   - System-Wide Water Conservation Study
   - WTP 2 MIEX Addition
   - WTP 2 Filter Replacement
   - WTP 3 and WTP 8 Improvements
   - System-Wide Water Conservation Study
   - Copper Corrosion Study
4. **City of Pompano Beach**
   - Water Supply Evaluation of Long Range Treatment Options
   - Concentrate Blending Study
   - Concentrate Disposal Design
   - Lime versus Nanofiltration WTP Evaluation
5. **Broward County**
   - PFAS Water Treatment
   - WTP 2A Electrical Upgrades
   - Pumping Stations and Potable Water Storage Tank Design
   - Ammonia System Improvement
   - Regional System Master Plan
   - Chiller Replacement
6. **City of West Palm Beach**
   - Filter Media Testing and Evaluations
   - Filter Operation Optimization Training
7. **City of Boynton Beach**
   - East WTP Improvements - Ion Exchange System Design and Construction Management
   - Clearwell Baffling and Four-Log Upgrades
8. **City of Sunrise**
   - Southwest WTP IX and Improvements
   - Sawgrass WTP Expansion Study and Design
   - Springtree WTP Improvements
9. **City of Hollywood**
   - Misc. Maintenance Projects Package B
   - Misc. Maintenance Projects Package C
   - Water Supply Plan Update
10. **City of Delray Beach**
    - SCADA System Conversion
    - Chemical System Upgrades
    - Clearwell Baffling and Four-Log Upgrades
    - Filter Rehabilitation Project
11. **Miami-Dade County**
    - Preston/Hialeah WTP Sodium Hypochlorite Chemical Feed Systems
    - Preston-Hialeah GWUDI Upgrades, New 165-mgd Nanofiltration Facilities
    - Preston/Hialeah WTP Electrical Upgrades
12. **City of North Miami Beach**
    - Norwood-Oeffler WTP Expansion Design
    - Norwood-Oeffler Clearwell Rehabilitation
    - Norwood-Oeffler Electrical Power Study
13. **City of Fort Lauderdale**
    - Five Ash Pilot Study
14. **Florida Keys Aqueduct Authority (Key West, FL)**
    - PFAS Water Treatment and Removal
    - Crawl WTP RO Facility Design
    - Stock Island Desalination WTP
    - New Kermit H. Lewin RO WTP

Membranes (NF, RO)

Our membrane experience in Florida alone represents numerous projects with a combined capacity of more than 300-mgd. This experience includes RO, NF, UF, and MF membrane systems. Both Tom Seacord and Brandon Yallaly have been involved in designing and providing their invaluable knowledge to produce a high quality product for clients throughout Florida and the US.

NF/RO Treatment

Carollo Engineers is one of the premier designers of membrane facilities in the United States. We've achieved this through a combination of our own experience, as well as paying attention to the successes and failures of our peers in the industry. Through this combination of observation and experience, we have developed a design philosophy that results in systems that are:

- Customized to your specific application, which avoids misapplication of standard designs.
- Easy and safe to operate, with special design emphasis on high quality materials, maintenance focused general arrangements, and owner preferences for specific components, such as instruments and valves.
- Configured to use the computing power of modern control systems, including automated data collection and normalization that empowers the operators to optimize system performance
- Energy efficient, and employing the latest flux management and energy recovery features to minimize power usage.
- Procured from only the best system suppliers using Carollo's rigorous pre-qualification process.

Carollo has successfully applied these concepts to NF and RO system designs around the country, with individual train capacities as high 4.9-mgd, and facility designs as large as 165-mgd. By bringing this design philosophy to your project, the City will have the opportunity to build a facility that stands out among other similar facilities in Southeast Florida.

"Carollo Engineers successfully implemented an innovative hybrid membrane design that not only met, but exceeded the expectations of MPW. Carollo's efforts and results were very impressive and I would recommend their services to any water utility that strives for perfection and high performance."

— Mr. Greg Hill
Operations Manager,
Mount Pleasant Waterworks



Tom Seacord, PE
Technical Advisor & QA/QC

Tom has more than 20 years of drinking water experience in Florida and is a nationally recognized expert in membrane design.

$2B+
Worth of membrane projects across the US.

20+
PROJECTS
Involving membranes for which Tom has been project manager and provided his technical expertise.

"Many spiral wound membrane options and operational techniques exist today to solve specific treatment challenges, such as softening, color removal, PFAS treatment, and enhanced recovery. The right solution for the City would be a combination of technologies that, while they may look and operate the same, can help the City meet current treatment objectives and respond to possible changes in well water quality or finished water goals. Combining my ongoing work in Florida and across the US with technical innovation guided by industry leading NF experts, I will make sure the right membrane solution is implemented for this project."

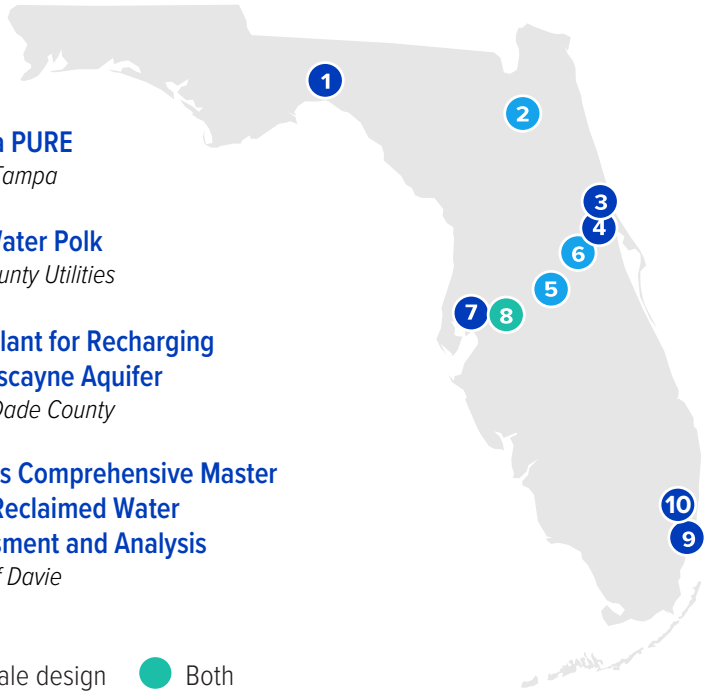


— Brandon Yallaly, PE
Membranes

Ranging from Non-Potable to Potable Reuse, Carollo's local and national experience brings the best in every respect.

As a nationally recognized leader in water reuse, we provide real world, innovative ideas to water reuse. Our proven track record of delivering purposeful innovative, sustainable, and cost-effective water reuse solutions provides the City with a one stop shop for all things reuse.

1. **Florida Potable Reuse Commission**
   WaterReuse Florida and Water Research Foundation
   Regulatory Framework Development
2. **Potable Reuse Treatability Study, Pilot, and Demonstration Facility**
   Clay County Utility Authority
3. **pureALTA Potable Reuse Pilot Study and Demonstration Facility**
   City of Altamonte Springs
4. **EWRF Potable Reuse Feasibility Study and Basis of Design**
   Orange County Utilities
5. **Indirect Potable Reuse Feasibility Study**
   Central Florida Tourism Oversight District
6. **IPR Feasibility Study and Soil Aquifer Treatment Pilot at 160-Ac RIBs Site**
   Toho Water Authority
7. **Tampa PURE**
   City of Tampa
8. **One Water Polk**
   Polk County Utilities
9. **Pilot Plant for Recharging the Biscayne Aquifer**
   Miami-Dade County
10. **Utilities Comprehensive Master Plan: Reclaimed Water Assessment and Analysis**
    Town of Davie



● Feasibility or planning studies ● Demonstration or full-scale design ● Both



Carollo and Clay County Utility Authority's (CCUA) Project Quench were recently featured in the latent edition of the WE&T Journal. Project Quench is an advanced demonstration facility showcasing the safe transformation of reclaimed water into drinking water using cutting-edge purification technology.

Carollo prepared application materials for the renewal of the existing operating permit for the City of Pompano Beach Reuse Treatment Facility, which is permitted to treat 7.5 million gallons per day (mgd) of reuse domestic wastewater.



Proven Leadership in **Water Quality and Regulations**

Carollo's experts are at the forefront of the industry for water treatment planning and design of groundwater contaminants including PFAS and other contaminants of emerging concern.

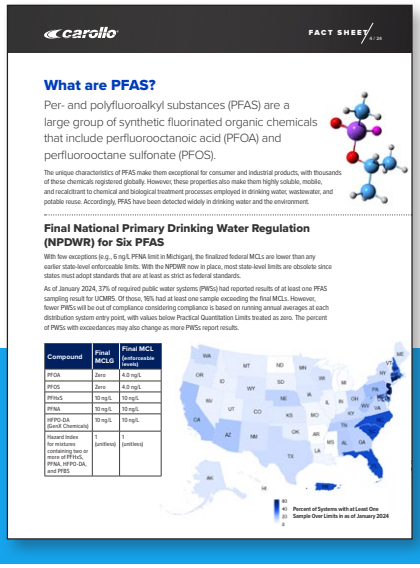
With more than 30 recent PFAS removal projects, our team stands ready to share our experience. Carollo's local and national experience brings out the best on every count. This experience has helped us develop operationally friendly treatment designs and strategies to economically address PFAS. In summary, Carollo provides:

- Extensive PFAS planning and treatment design experience.
- PFAS residuals disposal alternatives analysis.
- Staff who have provided research and regulatory support for PFAS treatment technology options for more than 15 years.
- In-house nationwide process-based research and testing at our Water Applied Research Center, WaterARC®, which can confirm PFAS treatment process selection and inform design criteria.



Dr. Eva Steinle-Darling is Director of the Water Reuse Technical Practice at Carollo and is also leading the company's response to clients' challenges with per- and polyfluoroalkyl substances, or PFAS. Her areas of technical expertise include membrane processes, such as RO and NF, adsorption, advanced oxidation, disinfection, and other advanced treatment processes for microconstituent removal with a special emphasis on PFAS. She has been responsible for over $3 million in applied research on those topics.

In the past five years, **Carollo has been engaged in more than a dozen innovative PFAS research, pilot, planning, and full-scale design projects for contaminated groundwater used as drinking water.** This experience has helped us develop strategies and effective treatment designs.


carollo FACT SHEET

What are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are a large group of synthetic fluorinated organic chemicals that include perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS).

The unique characteristics of PFAS make them exceptional for consumer and industrial products, with thousands of these chemicals registered globally. However, these properties also make them highly soluble, mobile, and recalcitrant to chemical and biological treatment processes employed in drinking water, wastewater, and potable reuse. Accordingly, PFAS have been detected widely in drinking water and the environment.

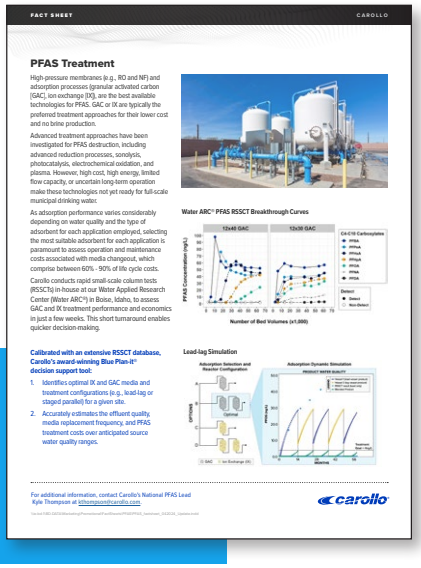
Final National Primary Drinking Water Regulation (NPDWR) for Six PFAS

With few exceptions (e.g., 6 ng/L PFNA limit in Michigan), the finalized federal MCLs are lower than any earlier state-level enforceable limits. With the NPDWR now in place, most state-level limits are obsolete since states must adopt standards that are at least as strict as federal standards.

As of January 2024, 37% of required public water systems (PWSs) had reported results of at least one PFAS sampling result for UCMR5. Of those, 16% had at least one sample exceeding the final MCLs. However, fewer PWSs will be out of compliance considering compliance is based on running annual averages at each distribution system entry point, with values below Practical Quantitation Limits treated as zero. The percent of PWSs with exceedances may also change as more PWSs report results.

Compound	Final MCLG	Final MCL (enforceable levels)
PFOA	Zero	4.0 ng/L
PFOS	Zero	4.0 ng/L
PFHxS	10 ng/L	10 ng/L
PFNA	10 ng/L	10 ng/L
HFPO-DA (GenX Chemicals)	10 ng/L	10 ng/L
Hazard Index for mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS	1 (unitless)	1 (unitless)

Percent of Systems with at Least One Sample Over Limits in as of January 2024


FACT SHEET carollo

PFAS Treatment

High-pressure membranes (e.g., RO and NF) and adsorption processes (granular activated carbon [GAC], ion exchange [IX]), are the best available technologies for PFAS. GAC or IX are typically the preferred treatment approaches for their lower cost and no brine production.

Advanced treatment approaches have been investigated for PFAS destruction, including advanced reduction processes, sonolysis, photocatalysis, electrochemical oxidation, and plasma. However, high cost, high energy, limited flow capacity, or uncertain long-term operation make these technologies not yet ready for full-scale municipal drinking water.

As adsorption performance varies considerably depending on water quality and the type of adsorbent for each application employed, selecting the most suitable adsorbent for each application is paramount to assess operation and maintenance costs associated with media changeout, which comprise between 60% - 90% of life cycle costs.

Carollo conducts rapid small-scale column tests (RSSCTs) in-house at our Water Applied Research Center (Water ARC®) in Boise, Idaho, to assess GAC and IX treatment performance and economics in just a few weeks. This short turnaround enables quicker decision-making.

Water ARC® PFAS RSSCT Breakthrough Curves

Calibrated with an extensive RSSCT database, Carollo's award-winning Blue Plan-it® decision support tool:

1. Identifies optimal IX and GAC media and treatment configurations (e.g., lead-lag or staged parallel) for a given site.
2. Accurately estimates the effluent quality, media replacement frequency, and PFAS treatment costs over anticipated source water quality ranges.

Lead-lag Simulation

For additional information, contact Carollo's National PFAS Lead Kyle Thompson at kthompson@carollo.com

carollo

Carollo's PFAS Study and Design Experience

ZONE 7 WATER AGENCY, CA
- PFAS Treatment Feasibility Study | ***GAC, IX, RO***
- Mocho Groundwater Demineralization Plant | ***RO***
- Stoneridge PFAS Treatment Facility | ***IX***
- Chain of Lakes Wells PFAS Treatment Facility | ***GAC, IX***

CITY OF LATHROP, CA
- Water Supply Alternative Feasibility Study

CITY OF ARCADIA, CA
- Live Oak Well Granular Activated Carbon Treatment System | ***GAC***

CITY AND COUNTY OF SAN FRANCISCO, CA
- San Francisco International Airport PFAS Facility Design Build | ***GAC, IX, RO***

SAN FRANCISCO PUBLIC UTILITIES COMMISSION, CA
- Recycled Water and DPR Projects | ***RO***

CITY OF PLEASANTON, CA
- PFAS Treatment Alternatives and Implementation Plan | ***GAC, IX***
- PFAS Treatment and Wells Rehabilitation | ***GAC, IX***

CITY OF MODESTO, CA
- Del Rio Well No. 68 Granular Activated Carbon Design | ***GAC, IX***

SOQUEL CREEK WATER DISTRICT, CA
- Groundwater Replenishment Feasibility Study and Pilot Testing | ***RO***

VALLEY WATER, CA
- Silicon Valley Advanced Water Purification Center | ***RO***

CLEAN WATER SERVICES, OR
- Pure Water Demonstration | ***RO***

CITY OF CAMAS, WA
- Camas Water System PFAS Evaluation and Well 13 PFAS Treatment Design | ***GAC, IX***

VEOLIA WATER IDAHO, ID
- PFAS Treatability Study | ***GAC, IX***

SALT LAKE CITY, UT
- Advanced Treatment for Wells - 4th Ave Well

CITY OF SOUTH JORDAN, UT
- Pure SoJo DPR Demonstration Facilities | ***GAC***

DENVER WATER, CO
- Mounding Drain PFAS Treatment Feasibility Evaluation | ***GAC, IX***

CITY OF THORNTON, CO
- Wes Brown and Thornton WTPs PFAS Study | ***GAC, IX, PAC***
- PFAS Treatment Owner's Advisor | ***GAC, IX, PAC***

CENTENNIAL WATER AND SANITATION DISTRICT, CO
- Joseph Blake WTP PFAS Treatment PAC Optimization | ***PAC***

COLORADO SPRINGS UTILITIES, CO
- PureWater Colorado Mobile DPR Demonstration | ***GAC***

VEOLIA DELAWARE, INC., DE
- Bench- and Pilot-Scale PFAS Treatment Evaluation at the Stanton Water Treatment Plant | ***GAC***

CITY OF WILMINGTON, DE
- PFAS Treatment Facility Conceptual Design at Porter Water Treatment Plant | ***GAC***

CLAY COUNTY UTILITY AUTHORITY, FL
- Potable Reuse Treatability Study and Pilot | ***GAC***

CITY OF SANFORD, FL
- Sanford 1,4-Dioxane Treatment System | ***GAC***

CITY OF ALTAMONTE SPRINGS, FL
- pureALTA Direct Potable Reuse Pilot Study and Demonstration Facility | ***GAC***

TOHO WATER AUTHORITY, FL
- IPR Feasibility Study | ***GAC***

BROWARD COUNTY, FL
- Water and Wastewater Engineering Services | ***NF***

PEMBROKE PINES, FL
- Pembroke Pines PFAS Treatment Evaluation | ***GAC, IX***

FLORIDA KEYS AQUEDUCT AUTHORITY, FL
- PFAS Treatment Feasibility Evaluation at the J. Robert Dean Water Treatment Plant | ***GAC, IX, NF***
- J. Robert Dean WTP PFAS Treatment Plant Evaluation and Removal | ***NF***
- Stock Island/Kermit PFAS Treatment and Removal | ***RO***
- Crawl Key PFAS Treatment and Removal | ***RO***

CITY OF BIG SPRING, TX
- DPR Advanced Treatment Process and Water Quality Confirmation Testing | ***RO***

PASCO COUNTY, FL
- Pasco PFAS Compliance Study | ***GAC, IX***

CITY OF TAMPA, FL
- David L. Tippin Water Treatment Facility Upgrade with SIX for Organics and PFAS Removal

TAMPA BAY WATER, FL
- Tampa Bay Water PFAS Treatment Evaluation | ***GAC, IX***

LEE COUNTY, FL
- Corkscrew Water Treatment Plant PFAS Treatment Feasibility Evaluation | ***GAC, IX, PAC, RO***

CITY OF PISMO BEACH, CA
- Central Coast Blue | ***RO***

CITY OF VENTURA, CA
- WaterPure IPR/DPR Studies and Demonstration Facility | ***RO***

LAS VIRGENES MUNICIPAL WATER DISTRICT, CA
- Pure Water Demonstration | ***RO***

ORANGE COUNTY WATER DISTRICT, CA
- PFAS Treatment Systems Planning Study | ***GAC, IX***

SUBURBAN WATER SYSTEMS, CA
- Whittier PFAS Treatment System | ***GAC, IX***

YORBA LINDA WATER DISTRICT, CA
- PFAS Water Treatment Plant Owner's Advisor | ***IX***

FALLBROOK PUBLIC UTILITY DISTRICT
- IPR Feasibility Study and Pilot Testing | ***GAC, RO***

CITY OF ANAHEIM, CA
- PFAS Treatment System Design | ***IX***

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, CA
- Regional Recycled Water Advanced Purification Center Design and Testing | ***RO***

CITY OF TEMPE, AZ
- PFAS Wellhead Treatment Evaluation Study | ***GAC, IX***
- Well 7 GAC Treatment Design | ***GAC***

TUCSON WATER, AZ
- Randolph Park PFAS Treatment | ***IX***
- PFAS Treatment Tucson Airport Remediation Project Improvements | ***GAC***
- Northwest Area Wells Alternatives Evaluation | ***GAC, IX***

MARANA WATER, AZ
- Picture Rocks and Airline/ Lambert Water Systems Treatment Campuses | ***GAC***
- Groundwater Treatment Feasibility Study | ***GAC, IX***

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, AZ
- Central Tucson PFAS Remediation | ***IX***

WATER TYPE
- Reuse
- Groundwater
- Surface Water

TREATMENT TECHNOLOGY
- ***GAC*** = Granular Activated Carbon
- ***IX*** = Ion Exchange
- ***RO*** = Reverse Osmosis
- ***PAC*** = Powdered Activated Carbon
- ***NF*** = Nanofiltration

30+
PFAS treatment projects in the last
5 years
alone



Carollo's Water Applied Research (Water ARC®) – One of our Key Differentiators

One of Carollo's key differentiators is our ownership and operation of the 8,900-square-foot Water Applied Research Center (Water ARC®), a state-of-the-art R&D facility dedicated to strategic water treatment planning. The Water ARC® offers advanced capabilities, including laboratory-based bench-scale treatability testing, and full-service support for field, pilot, and demonstration studies.

Water ARC® Laboratory Services performs a full range of applied research services that allow our clients to explore viable solutions, confirm efficacy, reduce risk, and improve efficiency. Because Water ARC®'s activities are intersectional with Carollo's vision, its full-time staff of dedicated researchers collaborates with Carollo's design and project teams. Together we refine our R&D efforts against each client's specific conditions and project alternatives so that viable options can be thoroughly tried and tested with us before being implemented at the pilot or full scale.



Pilot Testing Yields Innovative, Cost-Effective Solution

Pilot testing of the new "SIX" ion exchange technology provided an effective organics removal solution, saving over $160 million in capital costs and $250 million through improved filter loading, while reducing coagulant use and solids production by 70% (reducing chemical costs by $1.4 million per year).



Melanie ran the SIX pilot for the City of Tampa. She was involved throughout the design of the full-scale system to confirm we didn't forget the lessons learned during piloting.

Engineering Services During Construction Tasks
Our Team May Perform

- **Construction Meetings –** The pre-construction meeting will convey project procedures, requirements, constraints, schedule and work plan, special inspections, construction administrative procedures, and payment requirements. Our team will conduct meetings at the construction site each week to coordinate activities, handle project issues, and address overall quality, schedule, and change issues. Each month, we will provide the monthly progress report to the City.
- **Document Controls Procedures –** Our team will work closely with the City to streamline the document control process through E-Builder or any other tool indicated by the City to expedite document review.
- **Shop Drawings, Samples, Submittals, and Payment Requests –** Our team will log, track, and expedite submittals to monitor and manage cost-related items throughout construction.
- **RFIs, Substitution Requests, Change Orders –** Our team will coordinate all requests for information and clarifications to make informed decisions. We will maintain records of RFIs, potential change orders, and correspondence, and will interpret the contract documents fairly. We will expedite any necessary changes.

The Carollo team understands the importance of answering the contractor's questions and concerns on a timely manner – not only to keep the project in schedule, but to eliminate the impact that this has on maintaining teamwork spirit and collaboration with the project team. We advocate a turn-around time of seven days or fewer for RFI responses.

Construction Inspections

Our team will provide on-site observation, monitoring, and inspection services during construction. Our inspection staff will maintain comprehensive daily construction reports and help the construction manager monitor and record progress. Carollo's inspection team may perform the following activities:

- Review work and specialized inspections.
- Interpret contract documents.
- Complete construction records (correspondence, shop drawings, work directive changes, addenda, COs, field orders, additional drawings issued after the execution of the contract, design clarifications, progress reports and other project related documents).
- Keep a daily diary or logbook recording construction daily activities.
- Report progress of the work and of the contractor's compliance with the project schedule, schedule of shop drawings, and technical submittals. Our team will immediately report the occurrence of any accident to the City.
- Adhere to the contract documents.
- Complete closeout.

After construction is complete, our team will collect, review, and transfer all closeout documentation from the construction contractor to the City. In addition, the engineer of record will prepare the Certification of Construction Completion and request DEP Form 62-620.910(12) Notification of Completion of Construction for Wastewater Facilities or Activities for FDEP approval.

A Robust Project Management Plan to Successfully Complete Your Projects

Carollo has rigorous procedures for project management. These procedures are time tested and used on all our projects. That consistency contributes to our ability to meet or exceed performance expectations while maintaining schedules and budgets.

Inherent to our project delivery approach is that Carollo has the commitment of each of our project managers to follow our procedures on each project. Further, each project has an advisory team to monitor the work progress and provide a technical overview to promptly resolve concerns before they become significant and cause delays.

Key Elements of our **Management Approach**

- **Contract Manager:** Provide hands-on oversight and tailored solutions, rather than relying on a distant design center.
- **Local Project Managers:** Available to serve as project managers if multiple assignments are requested.
- **The Right People:** We assign the best talent to each project, drawing from a team with the expertise to meet the specific demands of every assignment.
- **Clear Goals:** A well-defined scope, schedule, and budget from the outset for every project.
- **Key Senior Staff Involvement for Quality Control :** Leverage the experience of our staff to deliver a project that meets or exceeds your expectations.
- **Emphasis on Communication:** Communication with the client and within the project team keeps everyone on the same page: do it once and do it right.
- **Frequent comparison of planned-versus-actual budget and schedule:** Know where a project is at all times, avoid surprises, and address slippage immediately.

Every Project Begins with a Project Management Plan (PMP)

The PMP is a powerful communication tool that helps our project manager coordinate our work effort, control the project, and meet the expectations of the stakeholders and your staff.

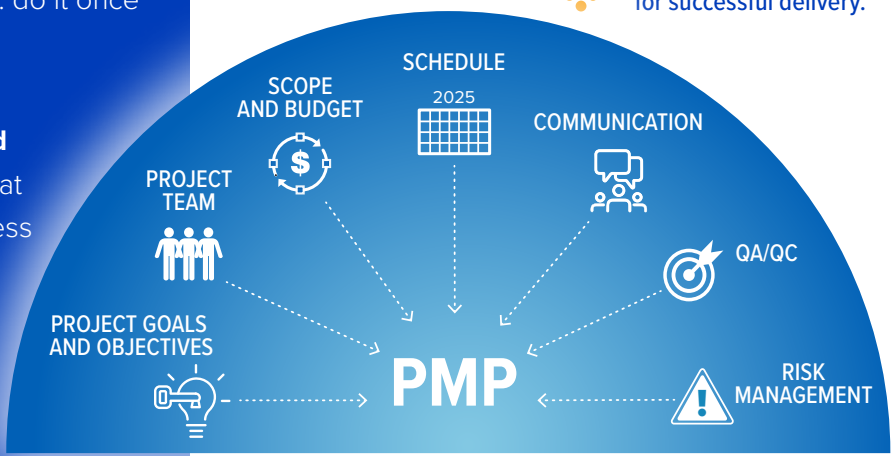
The PMP is created during the initial planning of the work, and serves as the basis for development of the final work product and all related documents. We share the PMP with the client and other stakeholders to set the stage for the entire project.

Balancing Staffing Needs By Making Use of Tracking and Resource Management Tools

Resource Management/Staffing

Carollo commits to providing the resources required to deliver services successfully for these projects. As a highly-ranked national firm, Carollo executes a high volume of work across a wide range of disciplines. Our firm-wide workload average commitment 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 clients' needs, regardless of the size and nature of the work.

The PMP is a dynamic tool for successful delivery.

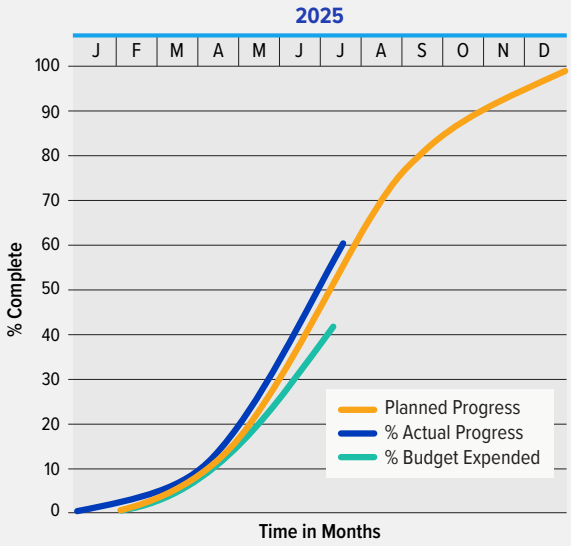


Monitoring Budgets

Twice each month, each project manager receives a record of labor hours charged to each job. Using the cumulative hours, the percent of budget used is calculated and plotted on the project S-curve. The project manager can then assess the following:

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

Schedule and labor-hour budgets are set to provide sufficient resources to complete each aspect of a project. This is monitored monthly in relation to the progress of the project to allow early detection of potential budget or schedule problems.



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.

Recovery from a Slippage in Budget or Schedule

Our proactive way of tracking budget and schedule typically provides enough warning to allow us to make any necessary mid-course corrections. However, obstacles can occur that are beyond our control and cause delays. The most important element in resolving these problems when they occur is communication. We inform you of potential delays and their possible impact on project completion before we get behind. We also let you know if there will be a budget impact before work starts and expenses are incurred.

How Do We Control Costs?

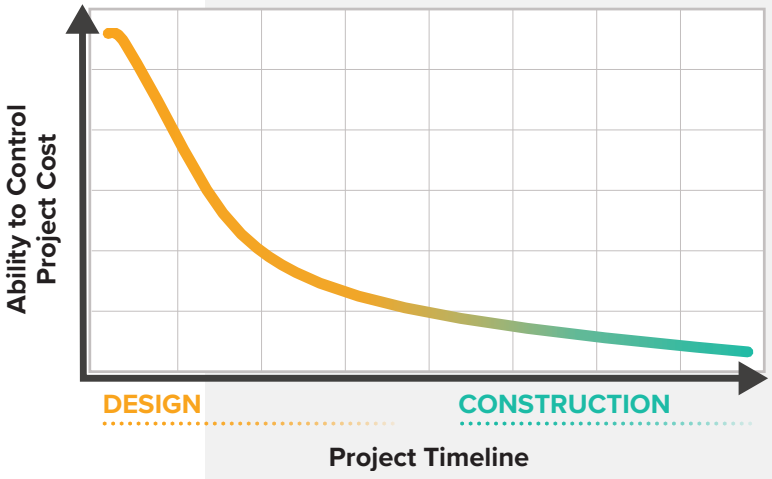
Putting every nickel to its best use on an overall project is a priority. Stated another way, every decision made during the design of our projects must maximize the results for your money spent. Initial costs are important as they may be limited by available funds, yet O&M and life-cycle costs are important to the long term health of the City and its ratepayers.

Applying Value Engineering – Using a Fresh Look

We routinely conduct value engineering workshops to bring a fresh look to decisions made by a project team. Often, that fresh look yields different approaches that identify possible capital cost savings, O&M cost reductions, and non-cost enhancements to our designs.

Accurate Cost Estimating – No Surprises

Carollo's approach to cost estimating involves using the project manager and engineers from the project team to develop the cost estimates. With this approach, Carollo's cost estimates are consistently in line with the expectations outlined by AACE International, Inc. We update our cost databases with information from ENR, the Handy Whitman Water Utilities Index, RS Means, and vendor quotations for specialized items. This approach aligns with AACE International, Inc. standards. Analysis of 25 recent large projects totaling over $225 million in construction costs showed change orders of less than 1.5 percent, including owner-initiated additions, compared to the industry average of 4 to 5 percent.



Quality Management

Maintain Schedule through Quality Control: Do it Right the First Time

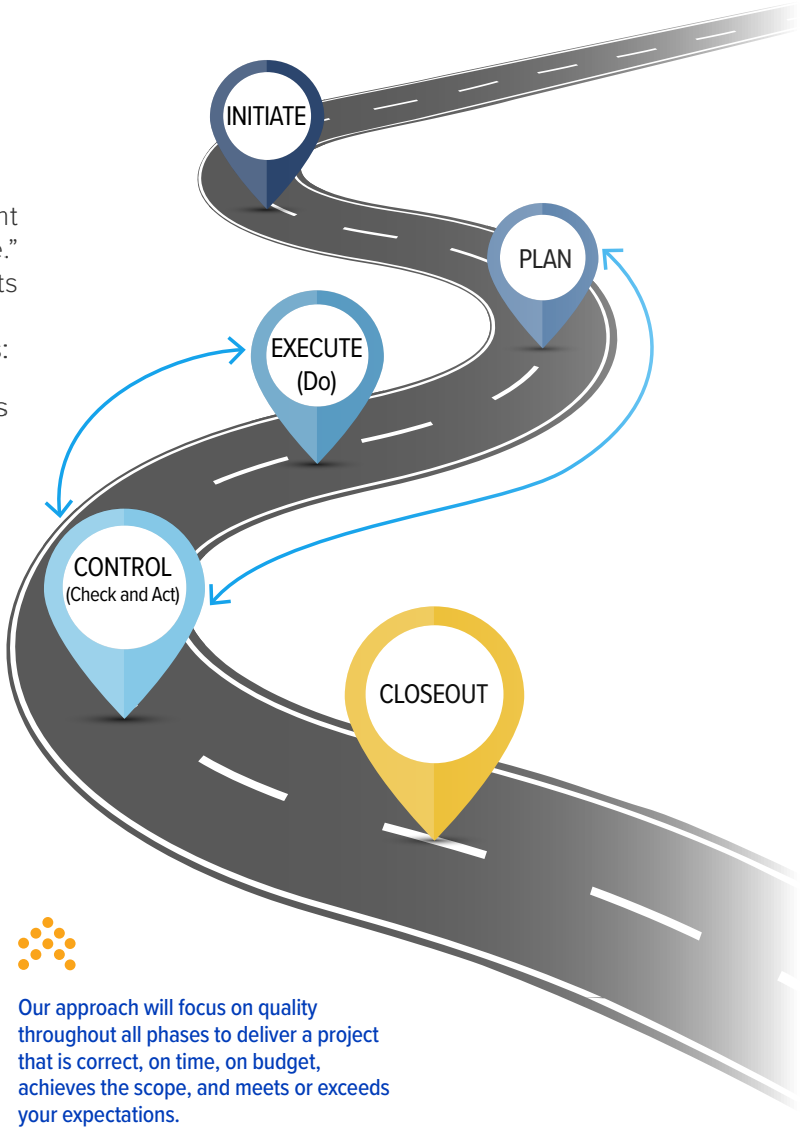
Careful quality control in our technical products is only one way we continue to bring excellent service and keep our projects on schedule and on budget.

Quality of Work: It all Starts with the Proper Quality Management Plan

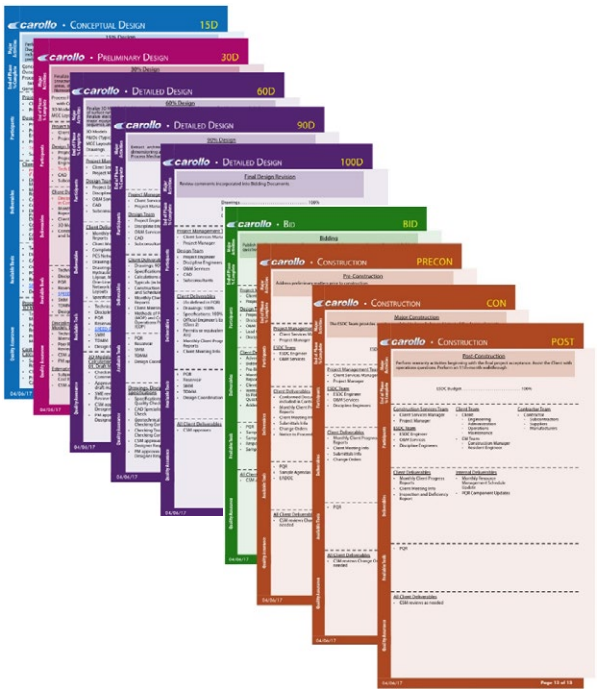
Quality management begins by applying the "right review and checking procedures at the right time." All of our work and the work of our subconsultants will receive the same quality checks. Our quality management procedures focus on two key areas:

- **Quality Assurance:** Preventing Quality Issues
  We use standard design tools, standard construction details, standard specifications, and checklists to prevent mistakes by incorporating decades of learning. We supplement our standards with expert peer review and experienced oversight. This helps prevent quality issues as the work progresses.
- **Quality Control:** Detecting Quality Issues
  Our detailed checking procedures and checkers checklist help us detect quality issues before they get into the field.

Total Quality Management from Start to Finish



Our approach will focus on quality throughout all phases to deliver a project that is correct, on time, on budget, achieves the scope, and meets or exceeds your expectations.



Our in-house quality management tools include standard specifications, design checklists, independent process and discipline reviews, and a constructibility review.

References



References

Carollo prides itself on the long-term relationships it has developed with its clients. Our references can attest to the technical capabilities, management skills, work quality, and commitment to client service of each project team member. Our past performance is the best indicator of the level of service we will provide to your water and reuse treatment plant projects, and we encourage you to contact our references below.



Broward County

Continuing Contract for Engineering Services Water Engineering Services, Pumping Stations and Storage Tanks

Mike Saltzman, PE

954-831-0736

Lsaltzman@broward.org



City of Boynton Beach

General Consulting Engineering Services

Keith Webber, PE

561-742-6400

webberk@bbfl.us



Sarasota County

Utility Engineering Library

Greg Rouse, PE, PMP

941-861-0548

grouse@scgov.net

Continuing Contracts for Water Engineering Services, Pumping Stations and Storage Tanks

Broward County, FL



QUALIFYING PROJECTS

Highlights:

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

Dates of Services:
October 2019 - October 2024

Costs:
$1.4 million in fees over the last 5 years

Reference Contact:
Mike Saltzman, PE
PH: (954) 831-0736
Email: Lsaltzman@broward.org

Description

Carollo is the County's current consultant for two continuing engineering contracts--for water treatment services and for pumping stations and storage tanks. As part of these contracts, Carollo's task orders have included the regulatory compliance needs associated with the following:

- **3A High Service Pump Station 4-log Permit Modification.** The District 3A pump station receives 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.
- **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 its 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 by the County's preference or as determined by the design process.
- **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 because of an adjacent school. Constraints were applied to the contractor to avoid work during high winds and to provide protective containment.
- **New 2.5-MG Ground Storage Facility and New High Service Pump Station, Electrical/ Generator and Chemical Facilities (District 3A).** 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.
- **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.
- **New 5-MG Ground Storage Facility. (District 2A).** Work included design and construction management for a new ground storage tank. The work was complicated by the staging requirements needed to keep the 2A facility in service.

General Consulting Engineering Services

City of Boynton Beach, FL



QUALIFYING PROJECTS

Highlights:

- Facility with finished water capacity greater than 20-mgd.
- Advanced treatment technologies.
- Emerging contaminant treatment.
- Funding.
- Creative constructability and layout features.

Dates of Services:
2018 - Ongoing

Costs:
$1.6 million in fees over the last 5 years

Reference Contact:
Keith Webber, PE
PH: (561) 742-6400
Email: webberk@bbfl.us

Description

Carollo provides services for the City of Boynton Beach water treatment plants (WTPs) under a General Consulting 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:

- **Ion Exchange Improvements.** Design of a 16-mgd MIEX® system and ancillary systems at the East WTP. In addition, because the water supply was from the west wellfield, analysis of the west wellfield capacity and modifications to avoid pressure impacts to the nanofiltration system while pumping to the ion exchange system.
- **Wellfield and Transmission Line Hydraulic Analysis.** Analyzed yield of wellfield and transmission of raw water from Western Wellfield to East WTP.
- **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.
- **East WTP Lime Slaking Improvements.** Design of improvements for new slakers.
- **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 and other existing A/C systems throughout the plant with a centralized A/C chiller system.
- **Optimization of Softening at East WTP.** Carollo conducted jar testing and evaluated the softening process to optimize chemical usage and sludge production.
- **Utilities Management Optimization Plan.** Carollo is developing a Utilities Management Optimization Plan (UMOP) that will support strategic, long-term decision-making regarding the need and timing of expansion, repair, or replacement of existing facilities, and the need to build facilities to meet regulatory requirements and efficiency goals. This includes the development of four engineering models (e.g. hydraulic models) to simulate existing conditions of the Boynton infrastructure and to plan for future improvements through the development of a CIP. The output of these models (e.g., CIP projects) was used as input to the UMOP.
- **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.
- **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.

Utility System Planning and Engineering Library Services

Sarasota County, FL



QUALIFYING PROJECTS

Highlights:

- Water supply planning.
- Feasibility studies.
- Hydraulic modeling.
- Permitting support.
- System evaluations.
- Facility inspections.
- Master planning.

Dates of Services:
2006 - Ongoing

Costs:
$1.6 million in fees over the last 5 years

Reference Contact:
Greg Rouse, PE, PMP
P: (941) 861-0548
E: grouse@scgov.net

Description

Carollo has completed multiple studies, evaluations, and hydraulic modeling analyses as part of an engineering library contract:

- **Engineer's Reports for Utility System Revenue Bonds.** Carollo prepared five Consulting Engineer's Reports between 2010 and 2022 to document the status of the Utility System for the purpose of issuing bonds. The reports addressed engineering aspects of the treatment facility infrastructure, operational performance, ability to meet future water demand and wastewater flow projections, and regulatory compliance.
- **Public Utilities Strategic Business Plan.** The County requested that Carollo use the Effective Utility Management (EUM) framework to create a Public Utilities Strategic Business Plan. The EUM framework identifies the "Five Keys to Management Success" which include the following components: leadership, strategic business planning, knowledge management, measurement, and continual improvement management.
- **Water Master Plan and Updates.** Carollo reviewed, updated, and expanded Sarasota County's previous Water Supply Master Plan to document the County's existing system, and to provide a basis for the continuation of sustainable water supply development throughout the County. Also included are hydraulic modeling, and water distribution system infrastructure CIP development.
- **Water Reclamation Facility Permit Renewals.** Carollo has prepared numerous permit renewal applications for the County including those for their Bee Ridge and Central County WRFs, North and South Master Reuse Systems, and Lake Forest WWTP.
- **County SCADA Specifications and Programming.** Carollo is completing the programming of the PLCs and upgrading the SCADA system and HMI graphics at the County's Pump Stations 1 and 4. The project includes upgrade of the Aveva HMI environment and programming of newly provided PLC systems and associated network hardware as part of capital improvement projects at these pump stations.
- **Extension of Staff to the County for Planning, Regulatory, and Permitting.** Carollo provides professional services to Sarasota County to assist with utility engineering projects, including several tasks associated with utility planning, reviews of new development projects with respect to existing County standards, and hydraulic modeling to evaluate distribution system operations, and oversight of construction projects.
- **Corrosion Inhibitor Study and Service Line Inventory Assistance.** This project includes a desktop evaluation of corrosion blends, testing services comparing the current corrosion inhibitor with an alternative, and a report summarizing the results and recommendations. Carollo also assisted the County in creating its service line inventory based on the requirements of the Lead and Copper Rule Improvements. Carollo implemented standby power to four City wells that were in critical need of backup power and converted the power supply from 4160V to 480V.

Project Team Form



Project Team Form

COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER 25-072

Federal I.D.# 86-0899222

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	Liz Fujikawa, PE, LEED AP, BCEE	41	MSE Environmental Engineering BS Chemistry
Project Manager	Tung Nguyen, PE, PMP	17	BS Civil Engineering
Asst. Project Manager			
Other Key Member	Angelica Gregory, PhD, PE	22	PhD Civil Engineering, MS Civil and Environmental Engineering, BS Civil Engineering
Other Key Member	Daniel Garcia, PE, PNV SP	28	MBA International Finance and Global Business, MS Civil Engineering, BS Civil Engineering,

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	Engenuity Group 300 Lock Road,Suite 302, Deerfield Beach, FL 33442	C. Andre Rayman, PSM
Landscaping		
Engineering		
Other Key Member	DK Architects 911 E Atlantic Boulevard, Suite 101, Pompano Beach, FL 33060	Andre Capi, RA, LEED AP
Other Key Member	Terracon 3347 NW 55th Street, Fort Lauderdale, FL 33309	Hugo Soto, PE
Other Key Member		
Other Key Member		

(use attachments if necessary)

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Technical Advisor & QA/QC	Bob Cushing, PhD, PE, BCEE	41	PhD Civil Engineering, University of Texas, Austin MS Civil Engineering, University of Texas, Austin BS Petroleum Engineering, University of Texas, Austin
Technical Advisor & QA/QC	Lyle Munce, PE	40	MS Sanitary Engineering, South Dakota State University BS Civil Engineering, South Dakota State University
Technical Advisor & QA/QC	Tom Seacord, PE	29	MS Civil and Environmental Engineering, Clarkson University, New York BS Civil and Environmental Engineering, Clarkson University, New York
Technical Advisor & QA/QC	Eva Steinle-Darling, PhD, PE	22	PhD Civil and Environmental Engineering, Stanford University MS Civil and Environmental Engineering, Stanford University BS Chemical Engineering, Princeton University
Master Planning/Permitting	Laura Baumberger	23	MS Environmental Engineering, South Dakota State University BS Civil Engineering, South Dakota State University BA Spanish, South Dakota State University
Softening/Ion Exchange	Vincent Hart, PE, ENV SP	33	MS Environmental Engineering, Virginia Polytechnic Institute and State University BS Environmental Engineering, Syracuse University
Membranes	Brandon Yallaly, PE	28	MS Civil and Environmental Engineering, Auburn University BS Civil Engineering with Honors, University of Florida
Reuse/Water Treatment	Pranjali, Kumar, PE	12	MS Civil Engineering, University of Colorado, Boulder BE Civil Engineering, Nagpur University
Water/Reuse Treatment	Chris Reinbold, PE	22	
Construction Services	Doug Dumont, CCM	32	AAS Civil Engineering Technology, State University of New York at Canton
Operations	Leo Pou	28	AA Environmental Engineering, Miami Dade College

Organizational Chart



Organizational Chart

Local Team
One Stop Shop

Carollo's local Coral Springs office will serve as the primary office completing the work for the County. **With more than 13 local staff members (and growing), our local office provides a full service team.**

We provide all disciplines, full-service water/reuse services locally and have experience working with the City of Pompano Beach.

The structure of our organizational chart allows us to deliver multiple projects at the same time.

We have included a group of PMs to enable our team to deliver multiple work assignments at the same time.

We have included a group of Technical Advisors who are nationally known for their expertise.

pompano beach
Florida's Warmest Welcome

PRINCIPAL-IN-CHARGE/ CONTRACT MANAGER

Liz Fujikawa, PE, LEED AP, BCEE 🔑

PROJECT MANAGERS

Tung Nguyen, PE, PMP 🔑
Angelica Gregory, PhD, PE 🔑
Daniel Garcia, PE, ENV SP 🔑

TECHNICAL ADVISORS & QA/QC

Bob Cushing, PhD, PE, BCEE 🔑
Lyle Munce, PE 🔑
Tom Seacord, PE 🔑
Eva Steinle-Darling, PhD, PE* 🔑

ASSESSMENTS

Modeling
Angelica Gregory, PhD, PE

Master Planning/Permitting
Laura Baumberger, PE 🔑

Softening/Ion Exchange
Vincent Hart, PE, ENV SP 🔑

Membranes
Brandon Yallaly, PE 🔑

Filtration
Patrick Carlson, PE*

Residuals
Mark Gross, PE*

Reuse/Water Treatment
Pranjai Kumar, PE 🔑

Hydraulic/ CFD Analysis
Ed Wicklein, PE

Cost Estimating
Jason Rozgony, PE*

Grant Funding
Emily Platt

DESIGN AND CONSTRUCTION MANAGEMENT

Pumping
Nestor Murray, PE

Water/Reuse Treatment
Chris Reinbold, PE 🔑

Electrical
Mark Pellish, PE

Structural
Joel Smason, PE

HVAC/Plumbing
Chad Green, PE

Construction Services
Doug Dumont, CCM 🔑

Operations
Leo Pou 🔑

Architecture
André Capi, RA, LEED AP

Survey
Jennifer Malin, PSM

Geotechnical
Hugo Soto, PE

Legend

[1]DK Architects [2]Engenuity Group, Inc. [3]Terracon

*Licensed in a state other than Florida

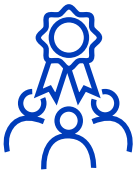
🔑 Key Personnel

Key Personnel

We have the breadth of experience needed to meet the upcoming needs of your continuing services contracts. The team will be led by our project managers. Supporting the Project Managers, Tung Nguyen, Angelica Gregory, and Dan Garcia will be our Principal-in-Charge/Contract Manager, Liz Fujikawa. Liz brings the commitment of the entire Carollo organization and will make sure the team delivers our task orders to your satisfaction.

Management Plan

Carollo's management philosophy is founded on simple precepts:



Hire and hold on to the best people in the business.

The most critical element for a successful project is the individuals doing the work. Carollo aggressively recruits highly experienced and successful engineers along with the top engineering graduates entering the work force. Our training and mentoring process allows younger engineers to become industry leaders. We also create successful teaming environments by developing communication skills and a commitment to building and maintaining lasting client relationships.



Specialize in the planning, design, and construction management of water projects.

This is our core business. Our success hinges solely upon our ability to provide cost-effective and responsive service to our clients.



Focus on client service.

Carollo knows the value of listening to our clients and recognizes that successful projects result from our staff working as an extension of your staff. This commitment to listening and valuing client input is the cornerstone of Carollo's 92 years of success. We take pride in the large number of clients with whom we have maintained continuing relationships. We have worked with some clients for over seven decades—validating the quality of our work, cost control, and ability to meet schedules.

We strive to live up to our mission statement:

> Dedicated to creative, responsive, quality water solutions to those we serve.

How do we manage your delivery?

Carollo uses the same standards and practices of project management for every project we undertake, whether it is a small study or the most complex design project. These standards and practices include: quality, safety, schedule management, risk management, dispute and claim control, cost control and estimating, and web-based project management systems.

Reporting Hierarchy

Our PIC/contract manager, Liz Fujikawa, will bring the commitment of the entire organization to your work—making certain that our resources are available and also, that you are completely satisfied with our work.

Our task orders will be led by three potential project managers so an appropriately skilled senior engineer and/or subconsultant will be available for a particular task order.

Our project managers will be supported by our project specialists. Planning projects will be led by Angelica Gregory and Laura Baumberger. Angelica and Laura have completed Master Plans and hydraulic modeling for the City and other local clients including Boynton Beach, Delray Beach, Davie, Broward County, and Palm Beach County.

Our advisory team, Bob Cushing, Lyle Munce, Tom Seacord, and Eva Steinle-Darling, will provide an overarching review of the work progress and be on call for the team.

State of Skills and Experience of Project Team



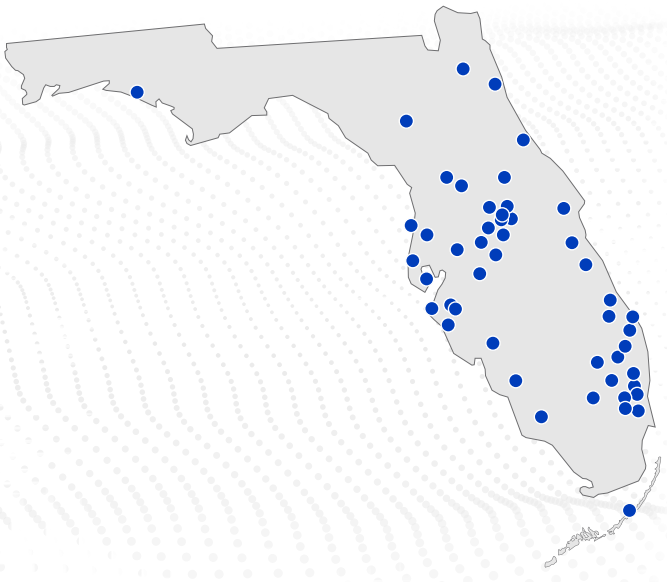
Statement of Skills and Experience of Project Team

Our team combines **trusted expertise and innovative thinking** to deliver the City's projects on time, on budget, and with solutions that maximize value.

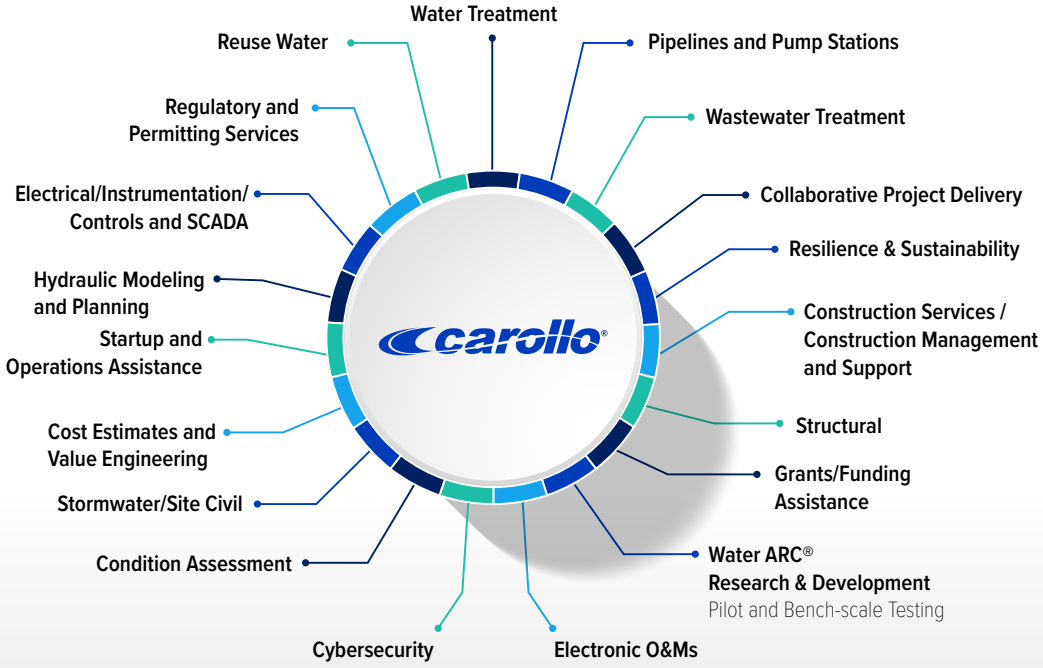
Experience

We deliver engineering services through on-call continuing contracts. 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 is the **Firm of Choice** for Florida Utilities for Continuing Utility Services



A Full Service Firm–
With Focus Solely on Water Solutions



Carollo is a local, multidisciplinary firm that will provide the best value solutions for the City. We offer full-service water sector engineering services.

SERVICES WE OFFER

Planning & Study Services

- Water, Wastewater, & Stormwater Master Planning
- Water & Wastewater Treatment Process Evaluations
- Water Resource Planning
- Asset Management
- Condition Assessment
- Process Controls Intelligence
- Energy Efficiency & Recovery
- Regulatory & Permitting Support
- Funding/Financing Support & Compliance
- Sustainability Evaluations
- Environmental Management
- Triple-Bottom-Line Analysis
- Organizational Planning

Design Services

- AutoCAD & BIM
- GIS Mapping/Schematics
- Hydraulic, Hydrologic, & Water Quality Modeling
- Computational Fluid Dynamics Modeling
- Treatment Process Modeling
- Construction Drawings & Specifications
- Electrical, Instrumentation & Controls
- Programming
- HVAC/Building Mechanical
- Structural
- Civil
- Corrosion Protection
- Odor Control
- Piping/Pumping
- Easement & Legal Description Services
- Permit Applications
- Bidding Phase Support

Construction Support Services

- Construction Management
- Resident Engineering
- Construction Administration
- Field Inspections
- Commissioning & Start-Up Support
- O&M Training
- Submittal Review
- Engineering Services During Construction
- Geotechnical Testing
- O&M Manual Development
- Standard Operating Procedures
- As-built Drawings

Project Execution

- Project Management
- Operations Assistance/ Troubleshooting
- Emergency Services
- Owner's Advisor
- Project Controls

According to Engineering News Record, Carollo is one of the largest firms in the US focused exclusively on water, wastewater, and reuse water. As such, we offer a superior depth of resources and unmatched 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 Pompano Beach.

The table below shows a sample of ongoing continuing services contracts that we currently hold in Florida. For each client, 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	Reuse 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	✓	

PROJECTS FOR SIMILAR SERVICES

As requested, below are 10 similar projects for professional services provided within the last five years, demonstrating comprehensive experience in all aspects of your contract.

ROBERT DEAN WATER TREATMENT PLANT PFAS EVALUATION



RELEVANCY

- Filtration
- Disinfection
- Wells
- PFAS removal

TEAM MEMBERS

- Lyle Munce
- Chris Reinbold
- Brandon Yallally
- Vinnie Hart
- Eva Steinle-Darling
- Laura Baumberger

Client Name

Florida Keys Aqueduct Authority (FKAA)

Project Date (start/end)	Status of Project
4/2023–8/2023	Complete

Scope of Work

Carollo Engineers was selected by the Florida Keys Aqueduct Authority (FKAA) to address PFAS in the source water at the 18-mgd J. Robert Dean Water Treatment Plant in Florida City. Services include a treatability study, design of treatment upgrades, and construction and commissioning support.

The PFAS treatability study began in March 2023. FKAA sought a solution using proven technologies—membrane treatment (reverse osmosis and nanofiltration), granular activated carbon (GAC), and ion exchange—to meet PFAS regulations and FKAA's water quality and reliability goals. Four treatment alternatives, combining these technologies, were evaluated for effectiveness and cost.

All alternatives met current water quality goals. The combination of nanofiltration and ion exchange offered the greatest potential for removing emerging contaminants. After evaluating capital, O&M, and present worth costs, this alternative was selected.

In June 2024, Carollo was authorized to begin facility design, with design and permitting expected to take one year, followed by construction and commissioning.

NORTHEAST REVERSE OSMOSIS WATER TREATMENT PLANT



RELEVANCY

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

TEAM MEMBERS

- Bob Cushing
- Chris Reinbold
- Laura Baumberger
- Lyle Munce
- Tom Secord
- Brandon Yallally
- Vinnie Hart

Client Name

Collier County Public Utilities

Project Date (start/end)	Status of Project
5/2023–5/2027	Construction

Scope of Work

Carollo provided the design and is now providing construction phase services for a new reverse osmosis (RO) water treatment plant with an initial capacity of 10-mgd and phased expansion to an 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



Client Name and Address	Client Address
Manatee County	1022 26th Avenue East Bradenton, FL 34208
Project Date (start/end)	**Status of Project**
5/2014–2/2024	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 the 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.

RELEVANCY

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

TEAM MEMBERS

- Laura Baumberger
- Vinnie Hart
- Patrick Carlson
- Joel Smason
- Chad Green

NORWOOD-OEFFLER WATER TREATMENT PLANT DESIGN



Client Name and Address	Client Address
City of North Miami Beach	19150 NW 8th Avenue North Miami Beach, FL 33162
Project Date (start/end)	**Status of Project**
5/2022–2/2025	Construction

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.

RELEVANCY

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

TEAM MEMBERS

- Liz Fujikawa
- Lyle Munce
- Chris Reinbold
- Brandon Yallally
- Vinnie Hart
- Ed Wicklein
- Joel Smason
- Chad Green

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



Client Name and Address	Client Address
City of Tampa	306 East Jackson Street, 6E Tampa, FL 33602
Project Date (start/end)	**Status of Project**
2/2016–1/2028	Construction

RELEVANCY

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

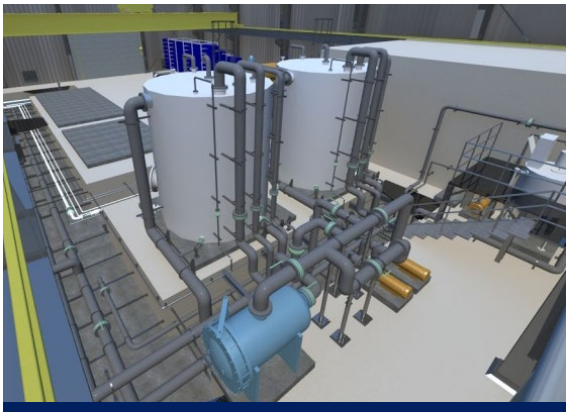
Scope of Work

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.

TEAM MEMBERS

- Bob Cushing
- Laura Baumberger
- Vinnie Hart
- Chad Green
- Mark Pellish
- Ed Wicklein
- Chris Reinbold

SPRINGTREE WATER TREATMENT PLANT FILTER REHABILITATION DESIGN



Client Name and Address	Client Address
City of Sunrise	777 Sawgrass Corporate Parkway Sunrise, FL 33325
Project Date (start/end)	**Status of Project**
6/2022–4/2024	Complete

RELEVANCY

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

Scope of Work

The City retained Carollo to provide the design of the filters to rehabilitate the existing filtration system and make changes to the potable water disinfection system and the potable water disinfection strategy, with a focus on minimizing disinfection byproduct 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.

TEAM MEMBERS

- Lyle Munce
- Chris Reinbold
- Joel Smason
- Jason Rozgony
- Patrick Carlson

BROWARD COUNTY PUMPING STATIONS AND STORAGE TANKS



Client Name and Address	Client Address
Broward County	115 South Andrews Ave, Room 8240 Fort Lauderdale, FL 33301
Project Date (start/end)	**Status of Project**
7/2015–12/2020	Construction

RELEVANCY

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

TEAM MEMBERS

- Liz Fujikawa
- Chris Reinbold
- Vinnie Hart
- Joel Smason
- Chad Green

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 efficient construction and future operation. The floor plan also provided for sound mitigation because of the proximity of residential areas surrounding the sites.

District 1B1: New ground storage tank, high service pump station, standby power, and chemical systems were provided. The 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: A new ground storage tank was provided. Carollo's project includes designing a new 5 MG prestressed concrete storage tank.

District 3A: New ground storage tank, high service pump station, standby power, and chemical systems were provided. 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



Client Name and Address	Client Address
Florida Keys Aqueduct Authority (FKAA)	1100 Kennedy Drive Key West, FL 33040-4021
Project Date (start/end)	**Status of Project**
8/2018–3/2021	Complete

RELEVANCY

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

TEAM MEMBERS

- Lyle Munce
- Chris Reinbold
- Angelica Gregory

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, a 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 by 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

TEAM MEMBERS

- Vinnie Hart
- Jason Rozgony

Client Name and Address	Client Address
Polk Regional Water Cooperative (PRWC)	2701 Lake Myrtle Park Road Auburndale, FL 33823
Project Date (start/end)	**Status of Project**
10/2017–11/2020	Complete

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 among 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

TEAM MEMBERS

- Liz Fujikawa
- Chris Reinbold
- Angelica Gregory
- Laura Baumberger
- Vinnie Hart
- Joel Smason
- Chad Green

Client Name and Address	Client Address
City of Pompano Beach	1205 NE 5th Avenue Pompano Beach, FL 33060
Project Date (start/end)	**Status of Project**
4/2024–3/2025	Substantially Complete

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 coast 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.

Current Capacity and Scheduling

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

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 from 65 to 70 percent. As a result, we have more than ample capacity to respond to our clients' 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 graphic to the right. 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."**

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

WORKLOAD of Core Team Members

	CURRENT WORKLOAD	PROJECTED WORKLOAD	AVAILABILITY
Liz Fujikawa, PE, BCEE, LEED AP *Contract Manager*	40%	40%	60%
Tung Nguyen, PE, PMP *Project Manager*	40%	45%	55%
Angelica Gregory, PhD, PE *Project Manager, Ion Exchange*	40%	45%	55%
Dan Garcia, PE, ENV SP, LEED AP, BD+C, PTOE *Project Manager*	20%	30%	70%
Bob Cushing, PhD, PE *Technical Advisor & QA/QC*	55%	45%	55%
Lyle Munce, PE, *Technical Advisor & QA/QC*	65%	55%	45%
Tom Seacord, PE *Technical Advisor & QA/QC*	60%	45%	55%
Eva Steinle-Darling, PhD, PE *Technical Advisor & QA/QC*	70%	50%	50%
Laura Baumberger, PE *Master Planning/Permitting*	55%	45%	55%
Vinnie Hart, PE, ENV SP *Softening/Ion Exchange*	65%	55%	45%
Brandon Yallaly, PE *Membranes*	70%	50%	55%
Chris Reinbold, PE *Water/Reuse Treatment*	40%	45%	55%
Pranjali Kumar, PE *Reuse/Water Treatment*	40%	45%	55%
Doug Dumont, CCM *Construction Services*	70%	60%	40%
Leo Pou *Operations*	55%	45%	55%

Willingness to Meet the Schedule

Staying on Schedule

Schedules are established by identifying project milestones and determining when each task must be completed 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.

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 a 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.

Strategies to get Back On Track

When a project's schedule is off-track, Carollo employs several strategies to realign the timeline and maintain project momentum. These strategies include:

- **Communication and Coordination:** Emphasizing open communication with all stakeholders is important. Regular progress meetings are held to discuss project status, address any issues, and make sure there is alignment among team members and clients.
- **Schedule Review and Adjustment:** The project schedule is regularly reviewed to identify any deficiencies or risks. This involves comparing planned versus actual progress and making necessary adjustments to the schedule to accommodate any changes or delays.
- **Risk Management:** A risk register is maintained to track potential risks and develop mitigation strategies. This proactive approach helps in identifying issues early and implementing solutions to prevent further delays.
- **Resource Management:** Adjusting staffing levels and resources as needed to accelerate task completion and align with the revised schedule may involve re-sequencing tasks or expanding project constraints to fit the contractor's methods better.
- **Quality Assurance:** Implementing quality control measures to minimize errors and make sure that the project meets its objectives without compromising on quality, which can lead to rework and further delays.
- **Use of Technology:** Utilizing project management software to track progress, manage schedules, and communicate updates effectively. This helps in maintaining transparency and keeping all parties informed about the project's status.

These strategies are designed to bring the project back on track while maintaining quality and budgetary constraints.

Your Local Management Team
The Right Choice for Your Projects

The key to success in executing the work in your Water and Reuse Treatment Plant Projects, Continuing Contracts (CCNA), is to have a group of senior leaders who have proven expertise in delivering a gamut of projects in their long careers. We have structured our organizational chart so that a senior project manager is supported by a group of seasoned project managers. This arrangement allows us to tackle multiple work authorizations at the same time.



LIZ FUJIKAWA, PE, LEED AP, BCEE

PRINCIPAL-IN-CHARGE/CONTRACT MANAGER

Liz has more than 40 years of experience and has served in roles ranging from project manager, technical specialist, to principal-in-charge for municipal clients. Her experience includes studies and construction management.

Projects:

- Project Manager / Evaluation of Long-Range Treatment by Lime Softening Versus Nanofiltration / City of Pompano Beach, Florida
- Technical Advisor /Membrane Treatment System Improvements / City of North Miami Beach and NMB Water, Florida
- Principal-in-Charge/Project Manager / Water Treatment Plant Operational Assistance and 4-Log Baffle System / City of Delray Beach, Florida



TUNG NGUYEN, PE, PMP

PROJECT MANAGER

Tung is a process engineer specializing in water and wastewater treatment plant planning, design, operations, project controls, and construction management, including design-build and design-build-operate. He leads large, multi-disciplined teams on projects for water and wastewater utility clients.

Projects:

- Project Engineer / Phosphate/Ferric Storage Tank Replacement Design / City of Delray Beach, Florida
- Project Manager/Design Engineer / Four-Log Disinfection Condition Assessment and Design / City of Hollywood, Florida
- Project Manager/Design Engineer / Reverse Osmosis and Membrane Piloting and Conceptual Design | City of Hollywood, Florida



ANGELICA GREGORY, PHD, PE

PROJECT MANAGER / PLANNING, MODELING

Dr. Angelica Gregory is a senior engineer with 22 years of combined experience, her background includes complex hydraulic modeling for evaluation, operation, design, optimization, integration, and master planning of wastewater, water, and reclaimed water infrastructure and related assets. Angelica is also skilled in chemical treatment processes and pilot investigations for water and wastewater plant design.

Projects:

- Project Manager / Water Master Plan Update / City of Pompano Beach, Florida
- Project Manager / Isle Casino Water Service Capacity Study / City of Pompano Beach, Florida
- Project Manager / Water and Wastewater Hydraulic Model Update and Calibration / City of Boynton Beach, Florida



DANIEL GARCIA, PE, ENV SP

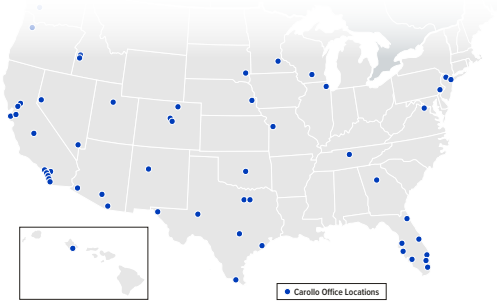
PROJECT MANAGER

Daniel is a seasoned water, wastewater, and resilience engineer with experience in master planning, large utility rehabilitation, and urban/residential civil projects. His 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.

Projects:

- Project Manager/Design Engineer / 4-Log Disinfection Condition Assessment and Design / City of Hollywood, Florida
- Project Manager/Design Engineer / High Service Pump Station Rehabilitation / City of Hollywood, Florida
- Project Manager / Water and Sewer Integrated Master Plan / Miami Dade County Water and Sewer Department, Florida

Local Technical Expertise **Supported by a National Deep Bench**



Carollo combines proven local expertise with the robust resources of a nationally recognized firm. Our Florida-based staff understands regional needs and regulations, while our national bench provides added technical depth and innovation to support project success.



BOB CUSHING, PHD, PE, BCEE

TECHNICAL ADVISORS & 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.

Projects:

- Technical Advisor / Ion Exchange (MIEX) Project / City of Boynton Beach, Florida
- Principal-in-Charge / South County Regional Water Treatment Plant Filter Media Replacement / Collier County, Florida
- Technical Advisor / Hialeah-Preston Water Treatment Plant / Miami-Dade County Water and Sewer Department, Florida



EVA STEINLE-DARLING, PHD, PE

TECHNICAL ADVISORS & QA/QC

Dr. Eva Steinle-Darling 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.

Projects:

- Technical Advisor / Direct Potable Reuse Demonstration Pilot pureALTA / City of Altamonte Springs, Florida
- Technical Advisor / Indirect Potable Reuse Project / Toho Water Authority, Florida
- Technical Advisor / Tampa Augmentation Project / City of Tampa, Florida
- Technical Advisor, Lead for CEC and PFAS / Regional Water Quality Study / Tampa Bay Water, Florida



TOM SEACORD, PE

TECHNICAL ADVISORS & QA/QC

Tom has 29 years of experience in water treatment and design. He is a nationally recognized expert in the field of desalination. He has taken lead roles in over $1 billion worth of desalination project planning, pilot testing, design, construction, and startup.

Projects:

- Project Manager/Project Engineer/ North Lee County Reverse Osmosis (RO) Water Treatment Plant Injection Well Scaling Remediation Project / Lee County Utilities, Florida
- Reverse Osmosis Design Engineer / Stock Island Seawater Desalination Plant Design / Florida Keys Aqueduct Authority, Florida
- Project Manager/ Project Engineer / RO WTP Upgrades Evaluation Project / Island Water Authority Florida



LYLE MUNCE, PE

TECHNICAL ADVISORS & QA/QC

Lyle has more than 35 years of experience treating South Florida water, including nanofiltration and reverse osmosis treatment, lime softening treatment, pilot- and bench-scale programs, concentrate injection well design and permitting, and potable water well design and permitting. His engineering contributions exceed $1 Billion in water facilities.

Projects:

- Project Manager / Norwood-Oeffler Water Treatment Plant Final Design / City of North Miami Beach, Florida
- Principal-in-Charge / Sawgrass Water Treatment Plant Pipe Gallery Improvements / City of Sunrise, Florida
- Principal-in-Charge/Project Manager / Kermit H. Lewin Reverse Osmosis (RO) Facility / Florida Keys Aqueduct Authority (FKAA), Florida

A Group of Local Subconsultants with **Experience You Can Trust**

Carollo has thoughtfully selected three of our **most trusted, local subconsultants** to complement the technical expertise of our staff. **Each firm has successfully provided similar services for us on previous municipal contracts and has an outstanding reputation.** This brings a benefit to the City, by allowing us to deliver specialized services to this contract confidently and efficiently. These firms are local and are invested in the local community.

Terracon

SBE LOCAL

Geotechnical

Terracon is a 100 percent employee-owned consulting engineering firm providing quality services to clients. Since 1965, Terracon has evolved into a successful multi-discipline firm specializing in geotechnical, environmental, materials, and facilities services. They provide services on thousands of projects each year.

Their culture, systems, and structure enable them to excel at both small and large projects. By combining their national resources with specific local area expertise, they consistently overcome obstacles and deliver the results clients expect. Since its inception, Terracon has achieved significant expansion through both internal growth and acquisitions.

Terracon will bring value to the team through their expertise and commitment to safety and quality control, providing geotechnical, environmental, and construction testing/inspection services.

dk design kollaborative architects / planners, inc.

LOCAL

Architecture

Practicing in Pompano Beach since 1978, DK Architects is the most tenured active design firm in the Pompano community having the diversified experience to accomplish myriad ongoing City goals.

DK has taken great pride in its rich history of cooperative performance and collaboration with the City of Pompano Beach, including Continuing Services Contracts with both the City of Pompano Beach and the Pompano Beach CRA.

DK is comprised of professionals experienced with projects of varying size and complexity, imbued with all the necessary technical, management and creative skills needed to execute the scope of work anticipated under this contract, while keeping within budgets and meeting schedules.

A Higher Standard of Excellence engenuity group inc. ENGINEERS + SURVEYORS + GIS MAPPERS

SBE LOCAL

Surveying

EGI was founded in 1978 to provide professional civil engineering services to the South Florida community. These services included design of paving, grading, drainage, wastewater collection, and water distribution systems, along with permitting, construction observation, and construction administration. Professional surveying services were added to the firm's services in 1984 and GIS services in 1998.

Today, Engenuity Group offers a full range of services in civil engineering, surveying, GIS mapping, and construction contract administration. For 40 years they have been providing high-quality, professional engineering services to clients in Broward County and are dedicated to the development and economic prosperity of the local community.

A Team with Purpose

Carollo's subconsultant team members all have previous work experience with our firm and are familiar with our approach, our expectations, and our commitment to client service. We have seamless working relationships with their firms, and have a proven ability to cohesively deliver high quality work for our clients, both on time and within budget.

Resumes of Key Personnel



Resumes of Key Personnel

Each team member has demonstrated experience that comes only from years of practice in their respective disciplines and the **creativity and drive to find successful solutions by thinking creatively.**

On the following pages, we have provided resumes for key personnel for both Carollo (the prime) and our subconsultants.

Key Personnel

- Liz Fujikawa, PE, BCEE, LEED AP
- Tung Nguyen, PE, PMP
- Angelica Gregory, PhD, PE
- Daniel Garcia, PE, ENV SP
- Bob Cushing, PhD, PE, BCEE
- Lyle Munce, PE
- Tom Seacord, PE
- Eva Steinle-Darling, PhD, PE*
- Laura Baumberger, PE
- Vincent Hart, PE, ENV SP
- Brandon Yallaly, PE
- Pranjali Kumar, PE
- Chris Reinbold, PE
- Doug Dumont, CCM
- Leo Pou
- André Capi, RA, LEED AP
- Jennifer Malin, PSM
- Hugo Soto, PE

* Registered in a state other than Florida



CONTRACT MANAGER

Liz Fujikawa, PE, BCEE, LEED AP

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Team Member Overview

Liz, a vice president with Carollo Engineers, has more than 40 years of engineering experience. Her experience includes design and construction management on projects with capital construction costs of up to $240 million, including two of the US's largest treatment plants, the 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).

Relevant Project Experience

Project Manager / Evaluation of Long-Range Treatment by Lime Softening versus Nanofiltration / *City of Pompano Beach, Florida*

The project evaluated advantages and disadvantages to bring the existing lime softening treatment plant into a 20-year life cycle condition versus an expansion of the nanofiltration treatment plant.

Project Manager / Owner's Representative Services for the Electrical System energy efficiency project / *City of Pompano Beach, Florida*

Served as Owner's Representative during upgrades by Siemens to reduce energy usage at the water treatment facility.

Project Manager / Water and Wastewater Services, District 3A / *Broward County, Florida*

Provided assistance to prepare a request for the revision of the FDEP determination letter, Determination of Four-Log Virus Treatment of Groundwater for the 3A facility. The BCWWS wanted a revision to the Determination letter that recognizes the applicable regulatory actions resulting from a four-log virus treatment technique violation that should only be required if the violation occurs at the same time the City of Hollywood has a condition that requires similar regulatory actions (e.g., a positive fecal coliform sample result in a supply well). The scope included preparation of the request, related discussions with representatives from the FDEP, and answering any questions or requests for information from the FDEP as necessary to obtain the revision.

Project Manager / Potable Water Storage Tanks, Pumping Systems, and Chemical Systems / *Broward County, Florida*

This project included 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 three locations within the County.

Principal/Project Manager / Oceanfront Park Wastewater Treatment Facility Design / *City of Boynton Beach, Florida*

Carollo provided design and construction management for the upgrades to a packaged rotating biological contactor (RBC) plant.

EXPERIENCE

40 years

EDUCATION

MSE Environmental Engineering, University of Michigan

BS Chemistry, University of Illinois, Urbana-Champaign

REGISTRATION/LICENSES

Professional Engineer, FL No. 74860

CERTIFICATES

LEED Accredited Professional, Green Building Certified

PROFESSIONAL AFFILIATIONS

American Water Works Association

International Ozone Association

Liz Fujikawa (Cont.)

Principal-in-Charge / East Water Treatment Plant Structural, Filter, and 4-Log Inactivation Improvements / *City of Boynton Beach, Florida*

Engineering services to provide 4-log disinfection and treatment credit, upgrade the filter media and surface wash, and provide repairs to aging concrete.

Principal-in-Charge / Design Criteria Package for SCADA Improvements / *City of Margate, Florida*

The City intends to upgrade their SCADA systems for their East Water Treatment Plant, East Wastewater Treatment Plant, and West Wastewater Treatment Plant. Carollo Is providing Owner's Advisor services to assist with the delivery of this project. Services include project management, development of a basis of design report, development of the request for qualifications for a fixed price design-build (FPDB) contractor, and assistance with the selection of the FPDB contractor.

Principal-in-Charge /Progressive Design-build of Master Lift Station 317 Major Upgrade / *City of Boynton Beach, Florida*

Progressive design-build rehabilitation of existing LS 317, an existing wet pit/dry pit master lift station with three 70 HP pumps and one 35 HP jockey pump. The station receives influent flow from both gravity and upstream pump station force mains. Phase 1 consists of preliminary engineering, including field investigations (survey, Lidar, SUE) and evaluating 3 alternatives for rehab of the station. Each alternative to address operational issues including excessive ragging, station capacity for current and future flows, odors and bypass pumping. Pre-application meeting will be conducted with regulatory agencies. A GMP will be developed for the City's selected alternative.

Project Manager/ Structural Repair for LS 11 and 34 / *City of Delray Beach, Florida*

Develop create concrete repair details for two Master Lift Stations 11 and 34.

Principal-in-Charge/Project Manager / WTP Operational Assistance and 4 Log Baffle System / *City of Delray Beach, Florida*

The project is to improve stability of performance of lime softening plant, and to develop procurement documents for the clearwell baffling system for 4 log compliance.

Client Service Manager/Principal-in-Charge / South Central Regional Wastewater Treatment and Disposal Board Effluent Disposal Management Study / *City of Delray Beach, Florida*

Evaluate options for effluent disposal, plant currently discharges to a single deep injection well.

Client Service Manager /East Wastewater Treatment Plant / *City of Margate, Florida*

Project included the conversion of the aeration system to IFAS for an innovative increase in capacity; RAS/WAS pump station; and a secondary clarifier.

Project Manager /Progressive Design Build of the Aeration System Improvements / *South Central Regional Wastewater Treatment and Disposal Board, Florida*

The project included increasing the capacity of the plant from 24 to 30 mgd; increasing energy efficiency by using single stage centrifugal blowers and increasing the plant sidewater depth.

Client Service Manager / Membrane Treatment System Improvements / *City of North Miami Beach and NMB Water, Florida*

The design included the following improvements for the reverse osmosis and nanofiltration membrane treatment systems: addition static mixers on the raw water lines, replacement of sulfuric acid and antiscalant chemical feed system components, and replacement of cradles for membrane supports.

Client Service Manager / Concentrate Disposal / *City of Pompano Beach, Florida*

Alternatives for disposal of membrane concentrate were developed and compared, including introducing concentrate into a reclaimed water plant. A new concentrate disposal pipeline was designed and permitted. Construction was completed in November 2017.

Project Manager / Ion Exchange Treatment System and East Water Treatment Plant Improvements Progressive Design Build / *City of Boynton Beach, Florida*

This project includes initial engineering and constructability evaluations, permitting, design, and construction of a 16.0-mgd ion exchange system, associated ancillary systems, and raw water transmission main modifications.



PROJECT MANAGER

Tung Nguyen, PE

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Team Member Overview

Tung is passionate about water treatment and applying sound engineering for real world results. He is experienced 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. He has served in multiple roles such as client, consultant, and DB contractor for assignments including program management, master planning, asset and condition assessment, detailed design, pilot testing, value engineering, operational/start-up, performance testing, and failure forensics investigations.

EXPERIENCE
17 years

EDUCATION
BS, Civil Engineering, George Mason University, Virginia

REGISTRATION/LICENSES
Professional Engineer, FL No. 85095

PROFESSIONAL AFFILIATIONS
Water Environment Federation

Relevant Project Experience

Project Manager / East Water Treatment Plant Structural, Filter, and 4-Log Inactivation Improvements / *City of Boynton Beach, Florida*

Engineering services to provide 4-log disinfection and treatment credit, upgrade the filter media and surface wash, and provide repairs to aging concrete.

Project Manager/Design Engineer / Reverse Osmosis and Membrane Piloting and Conceptual Design / *City of Hollywood, Florida*

This project included 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, Mr. Nguyen 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.

Project Manager / Water Master Plan (WMP) through 2045 / *City of Hollywood, Florida*

He led the team to complete hydraulic modeling, demand planning, condition assessments, water treatment performance, regulatory compliance evaluation, climate change and sea level rise evaluation, and conceptual designs for the water treatment plant. The results of the evaluations were compiled into a comprehensive 20-year, "living" Water Master Plan (WMP) that included a risk-based and prioritized capital improvements plan that is interfaced with Power BI dashboards and a database that is integrated to the City's asset management system and can be updated annually to reflect the latest conditions in the system.

Project Manager and Project Controls Manager / Port Miami's $1.4-billion Capital Improvement's Program / *Miami, Florida*

Reporting to the Seaport Department's Chief of Engineering, he was responsible for providing project controls services to develop and monitor key performance indicator

Tung Nguyen (Cont.)

(KPI) reporting to the Office of the Director of the Port. As part of this effort, Mr. Nguyen served as the liaison between the construction team project managers and the Port Miami Capital Development project managers. His duties included managing the master program schedule, developing risk registers, updating project costs, and implementing Project Management Institute (PMI) best practices. He also led the blue-printing, development, and implementation of Power BI portals to assist in updating and sharing information between departments.

Project Manager/Design Engineer / 4-Log Disinfection Condition Assessment and Design / *City of Hollywood, Florida*

He led 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 (DBP) 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.

Commissioning Engineer / Main Process Train Design-Build (CAMBI) at the Blue Plains Advanced Water Treatment Plant / *DC Water, Washington D.C.*

This $208 million project installed the world's largest Cambi thermal hydrolysis process (THP) system, which produces Class A biosolids and, along with the overall program, reduced the volume of biosolids hauled off-site by over 50 percent and generated 14 megawatts of power from biogas. Mr. Nguyen developed the functional testing and commissioning plans and performed the field testing of the processes upstream of the Cambi system, which included the solids screen system (rated for 500 dtpd), the pre-dewatering centrifuges and cake pumps (rated for 500 dtpd), and other support systems including a 48,000-cfm odor control system. At the end of testing and commissioning, he provided training to DC Water staff (operators) on system design and operations. He also performed maintenance and troubleshooting of pressure screens, pumps, chemical systems, and centrifuges during the commissioning period.

Design Engineer / Corbalis Water Treatment Plant Stage III Expansion / *Fairfax Water, Virginia*

Project consisted of a $164 million expansion of the plant to 225 mgd. He managed the submittal approvals and construction documents by utilizing Primavera Expedition to streamline approval and tracking of 10,000 project records including over 3,100 shop drawings. He also managed the installation, testing, and start-up of the finished water pumping station (two 1,500-hp, 60-mgd horizontal split-case pumps) and the ozone system upgrades, which included construction of the cryogenic storage system and vaporizers (liquid oxygen), ozone generators, contacting basins, destruction, and quenching systems.

Design Engineer / Liquid Oxygen (LOX) System Expansion at the 120-mgd Griffith Water Treatment Plant / *Fairfax Water, Virginia*

Managed and designed the LOX system expansion to provide an additional 43,000 gallons of liquid oxygen with provisions for future expansion to 120,000 gallons. The expanded storage system allowed the plant to convert ozone production to LOX supply and decommissioning of the existing on-site generation system. As part of the design, Mr. Nguyen developed the maintenance of plant operations plan, coordinated utility relocation, and obtained county and state regulatory approval for the site plan, building, and health department construction permits. He also managed the project during the construction phase and was responsible for submittal approvals, schedule review, pay application, shutdown coordination, and startup and commissioning.

Project Engineer / Washington Aqueduct Dalecarlia Water Treatment Plant, On-Call project / *Washington D.C.*

Served as a project engineer for task orders at the Washington Aqueduct's 200-mgd Dalecarlia WTP. As part of this work, Mr. Nguyen developed design documents for the procurement and installation of the lead service line loop monitoring rigs for WA's lead pipe study program. Mr. Nguyen also developed the protocol for CFD modeling of the existing chemical mixing chamber and relocation of chemical addition at the plant's 30-mgd clearwell.

Design Engineer / On-Call project / *NAVFAC , NSA Souda Bay, Greece*

Served as the project engineer on various task orders for the Navy, including developing the protocol for a tracer study, design of treatment modifications (including coordinating CFD modeling) to meet future CT requirements, and the source water assessment at NSA Souda Bay, Greece. Mr. Nguyen provided key technical guidance to make sure the evaluation of existing and proposed modifications met both near term and long-term changes to the drinking water regulations for the facility.



PROJECT MANAGER

Angelica Gregory, PhD, PE

Team Member Overview

Dr. Angelica Gregory is a senior engineer and project manager with 22 years of combined experience in the water consulting industry, including complex hydraulic modeling for evaluation, operation, design, optimization, integration, and master planning of water, and reclaimed water network infrastructure and related assets. Angelica is also skilled in chemical treatment processes and pilot investigations for water and wastewater plant design.

Relevant Project Experience

Project Manager / Water Master Plan Update / *City of Pompano Beach, Florida*

The City requested that Carollo prepare an update of the 2020 Water Master Plan that is consistent with the Water Supply Facilities Work Plan (WSFWP) 2025 Update and the most current Lower East Coast (LEC) plan published by the South Florida Water Management District (SFWMD). 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. The Water Master Plan will use the new water demand projections that will be determined in the WSFWP 2025 Update under a separate work assignment.

Project Manager / Isle Casino Water Service Capacity Study / *City of Pompano Beach, Florida*

Carollo served as a subconsultant to Keith and Associates to perform a water system capacity study to determine if the City's potable water utility network will have the capacity to serve the Isle Casino Development, and that the level of service of both the casino and the existing users will be consistent with City ordinance.

Project Manager / Pump Station Size Optimization / *Pasco County, Florida*

Pasco County was facing challenges in transferring reclaimed water from the western portion of the County over to the east, where a greater demand exists for reclaimed water. Elevation changes across the County and concerns about over-pressurizing customer service points led PCU to identify a need for optimization and improvement of the PCMRS using the existing hydraulic model. Carollo completed a calibration and evaluation of the existing reclaimed water hydraulic model to appropriately determine the required improvements to one of PCU's nine high service pump stations in the reclaimed water system. Tasks included field testing and collection of data during both dry weather and wet weather periods; hydraulic model control updates and model calibration; using the calibrated hydraulic model to evaluate opportunities to optimize the existing reclaimed water system and make improvement or modifications to address current limitations and deficiencies; and preparation of the hydraulic modeling report.

EXPERIENCE

22 years

EDUCATION

PhD Civil Engineering, University of Miami, Coral Gables

MS Civil and Environmental Engineering, Universidad de Los Andes, Bogota, Colombia

BS Civil Engineering, Universidad de Los Andes, Bogota, Colombia

REGISTRATION/LICENSES

Professional Engineer, FL No. 75583

PROFESSIONAL AFFILIATIONS

American Water Works Association

Water Environment Federation

Society of Women Engineers

Angelica Gregory (Cont.)

Hydraulic Modeler / Transmission Main Replacement / *Florida Key Aqueduct Authority (FKAA), Key West, Florida*

FKAA sought to replace approximately 28,000 LF on 30" DI transmission main with 36" carbon steel in the vicinity of Plantation Key. The transmission main replacement is desired due to its age and condition. Replacement of the pipe will also minimize risk for future breaks, as well as improved redundancy. Replacement of the pipe will be a combination of open cut and HDD across Tavernier Creek. This project includes the design, permitting, and bidding. Also included in the project are re-connections to the existing 18-inch distribution main.

Project Manager / Water and Wastewater Hydraulic Model Update and Calibration / *City of Boynton Beach, Florida*

The goal of this project is to update the City's wastewater and potable water hydraulic models with the most current GIS database and to calibrate the models based on select field testing and SCADA information. The use of the updated models will allow the City to evaluate performance of existing infrastructure and plan for future flow conditions. It will also provide better understanding of the impact of wet weather on the City's wastewater conveyance infrastructure to improve resiliency.

Project Manager / 2024 Master Reuse System Master Plan / *Pasco County, Florida*

The primary goals of this project were to complete population projections for use in the County's potable water master plan, wastewater master plan, and reclaimed water master plan. It also included completing a system water balance for seasonal effluent flow management and a 20-year Master Reuse System Master Plan (PCMRSMP) which included a recommended CIP with planning periods and model scenarios at 5, 10, and 20 years.

Project Manager / Master Reclaimed System (PCMRS) Hydraulic Model Conversion / *Pasco County (PCU), Florida*

The PCU wastewater collection system is divided into six service areas, each with its own wastewater treatment plant (WWTP), with a combined capacity of approximately 33.1 mgd. PCU also shares 3.0 mgd of capacity at the City of New Port Richey's WWTP, included in the west hydraulic model. Carollo previously built and calibrated PCU's hydraulic models to 2017 dry weather conditions, incorporating 390 PCU pump stations and 19 privately owned stations. These models aid in planning and system evaluations as the system expands. PCU anticipates continued growth over the next 20 years and has requested Carollo to update and calibrate the models for both dry and wet weather conditions. The models will be converted from Innovyze's InfoSWMM to Bentley's SewerGEMS software, with deliverables provided in a compatible format.

Project Manager and Hydraulic Modeling Lead / Reclaimed Water Expansion System Progressive Design-Build Owner's Representative Services / *City of Boynton Beach, Florida*

The project included customer procurement; system modeling and optimization; routing; and phasing. Angelica led the calibration and update of the reclaim hydraulic model, the evaluation of the existing system, and its optimization to accept buildout demands while minimizing the need for booster pumping and subject to stringent levels of service. Planning-level desktop route analyses and a phasing/connection plan for future customers were provided based on model outcomes.

Project Manager/Project Engineer / Integrated Utilities Master Plan Update / *City of Deerfield Beach, Florida*

This project included updates to the master plan and rate study submitted pre-pandemic. Updates were necessary due to the changing conditions in basic assumptions such as water demand projections, and the new understanding that a rate increase was due and up-to-date supporting documentation were developed.

Overall Project Engineer and Assistant Project Manager / Utilities Comprehensive Master Plan and Rate Study / *Town of Davie, Florida*

Angelica led efforts to plan for capital, operation, and R&R improvements for the next 25 years at all levels of the utility – from the Town's two water treatment plants and two wastewater treatment plants to their water distribution, their wastewater collection system, and their reclaimed water system. All components of the project proved challenging because of the many changes and regulatory limitations that the utility was subject to over the last few years. Directly relevant work that Angelica completed under this project included the analysis of the event that one of the water treatment plants was decommissioned, leaving 60 percent of the service area with lower than standard water service pressures. Angelica used the Town's hydraulic model to conceptualize the conversion of the old plant's high service pump station and ground storage tanks into a booster pump station that would be remotely controlled from another facility, to restore the pressure in the system. Tank turnover to improve distribution system water age and tank level controls were simulated and provided as part of the effort. Planning-level design and costs were provided to the Town and included in their long-term CIP.



PROJECT MANAGER

Dan Garcia, PE, ENV SP

Team Member Overview

Dan is a seasoned water, wastewater, and resilience engineer with experience in master planning, large utility rehabilitation, and urban/residential civil projects. His background includes transportation, coastal engineering, and project finance, and a recent focus on complex and critical infrastructure projects to harden infrastructure and improve the resilience of communities. Positions he has previously held with consulting firms and banking institutions include project manager, finance analyst, internal auditor, designer, and construction manager. 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 lifecycle, from proposal writing and contract negotiations to project delivery, close-out, and handover.

Relevant Project Experience

Project Manager/Design Engineer / 4-Log Disinfection Condition Assessment and Design project / *City of Hollywood, Florida*

Coordinated 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.

Project Manager/Design Engineer / High Service pump station rehabilitation / *City of Hollywood, Florida*

The purpose of the project was to rehabilitate the aeration building pump station by installing a new high-service pump to increase the reliability of the delivery of finished water to the water distribution system. He also served as permitting coordinator and led the multidisciplinary team to deliver to clients.

Project Manager / Water and Sewer Integrated Master Plan / *Miami-Dade County Water and Sewer Department (WASD), Florida*

Led the development of task orders, client negotiations, and coordination with asset management, risk modeling, hydraulic modeling, and other subject matter experts. WASD's wastewater collection system is a complex network, comprised of more than 1,000 pump stations, 3200 miles of gravity sewer, 980 miles of force mains, and 14 volume sewer customers. WASD owns and operates three regional wastewater treatment plants (WWTPs), which process approximately 310 mgd of wastewater and produces more than 150,000 wet tons of biosolids per year. 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.

EXPERIENCE

28 years

EDUCATION

MBA International Finance and Global Business, New York University Leonard N. Stern School of Business

MS Civil Engineering, Oregon State University

BS Civil Engineering, Civil Engineering University of Florida

REGISTRATION/LICENSES

Professional Engineer, FL No. 62299, NY

PROFESSIONAL AFFILIATIONS

Envision Sustainability Professional

LEED Accredited Professional Building Design + Construction

Professional Traffic Operations Engineer

Dan Garcia (Cont.)

Program Manager / Large Diameter Pipe Evaluation and Replacement Program / *JEA, Florida*

This was a five-year program to develop a comprehensive plan to maintain, rehabilitate, and, if necessary, replace JEA's most critical assets in a manner that maintains a high level of service to their customers and at the same time most efficiently utilizes their funding. The program includes over 800 miles of gravity sewers, force mains, and water transmission mains from 16-inch to 72-inch diameter. Technical duties included being the design lead on a cured-in-place pipe and air release valve evaluation and rehabilitation projects. for JEA Large Diameter Pipe Evaluation and Replacement Program.

Civil Design Lead / Yard Piping, Paving and Drainage Design / *City of Fort Lauderdale, Florida*

The City is converting the existing Fiveash Water Treatment Plant to only serve as a storage/pumping facility, as all treatment will be shifted to the New Prospect water treatment plant. As part of this project, Mr. Garcia assisted in development of a basis of design report to progress to detailed design of the high service pump station facility.

Project Manager/Design Engineer / Elevated Tank Inspections / *City of Hollywood, Florida*

Coordinated inspections between the subcontractor and the City for the East Steel Elevated Storage Tank and the West Steel Elevated Storage Tank. The scope included the provision of engineering services to complete an inspection of the structural condition of both tanks. The findings of the tank inspections were to be incorporated into the existing asset management condition assessment process and added to the scoring of the City's Rehabilitation & Replacement Planning System database developed as part of the City's ongoing master planning efforts for the water treatment plant and water system.

Project Manager And Engineer of Record / Elgin Boulevard Force Main Design / *Hernando County, Florida*

The project consisted of the design of 6,200 linear feet of a new sewer force main. The design included all the appurtenances necessary for a complete and functional force main. Responsibilities included preparation of construction plans, technical specifications, bid form, permitting assistance, preparation of an opinion of probable construction cost, bidding phase services, and construction phase services excluding daily project inspections.

Project Manager / Subaqueous Force Main Rehabilitation Services / *JEA, Florida*

This project was to ensure the original 42-inch ductile-iron pipe effluent force main, originally built in 1975 and placed out of service in 2016, could continue to provide redundant service by armoring the exposed portion of the force main to prevent any hard-marine growth on the exposed pipe and protect against external impacts from boat traffic and future dredging activities. This project section was further investigated to ensure the integrity of the main via hydrostatic pressure testing. Additional investigation or testing was performed based on the pressure test results.

Design Project Manager / Design-Build Palm and Hibiscus Islands Right-of-Way Infrastructure Improvements / *City of Miami Beach, Florida*

This comprehensive neighborhood infrastructure improvement project included major improvements to the stormwater infrastructure on both islands, including the replacement of piping and the addition of three pump stations. Public outreach was a major component of this project due to the significant amount of harmonization necessary to address newly raised streets and existing residence elevations. Additional improvements included the replacement of the water main, lighting, utility undergrounding, landscaping, streetscape, and pavement and marking. Responsibilities included coordination with the builder, design team, client, and permitting agencies.

Project Manager / Espanola Way Pedestrian Mall Conversion / *City of Miami Beach, Florida*

This project converted a portion of Espanola Way, from Washington Avenue to Pennsylvania Avenue, to a pedestrian-only street. The project scope included a water main design, ornamental brick pavers, and security bollards to ensure maximum safety and enjoyment for the public.



TECHNICAL ADVISORY & QA/QC

Bob Cushing, PhD, PE, BCEE

Team Member Overview

Dr. Robert Cushing 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.

Dr. Cushing has practiced nationally, providing service to a broad cross-section of the industry, from some of the largest and most visible utilities (e.g., New York City and Washington, D.C.) to very small applications with important and unique issues (e.g. Ouray National Fish Hatchery, Utah)

Relevant Project Experience

Technical Advisor and Quality Assurance / Babcock Ranch Community Site / *MSKP Town and County Utility, LLC, Fort Myers, Florida*

The 30-acre utility site houses the water treatment plant (WTP) and wastewater treatment plant to accommodate future growth for the planned community. The WTP will increase the flow from 0.25 to 1.25-mgd. This new water system consists of a new reverse osmosis (RO) treatment plant, storage tank, high-service pump station, and distribution piping. Groundwater bypass is treated with anion exchange to reduce capital and operating costs while improving finished water quality. RO concentrate is disposed to a reuse system and used for irrigation.

Principal-in-Charge and Project Manager / Northeast Regional Water Treatment Plant / *Collier County, Florida*

This $70 million Greenfield 10-mgd brackish RO treatment plant (expandable to 40-mgd) includes a design that must respond to degrading water quality and more than 8-mg/L of hydrogen sulfide. Key features of the RO design include no-acid pretreatment, noise isolation of the RO feed pumping, accessibility to all instruments and valves, and pressure exchanges for energy recovery.

Technical Advisor and Quality Assurance for Pilot Testing and Engineering Analysis of water treatment technologies on Lake Okeechobee as part of the $8.4 billion Comprehensive Everglades Restoration Program (CERP)

This study evaluated alternatives for treating Lake Okeechobee water prior to injection in Aquifer Storage and Recovery (ASR) wells. Pilot study results were used to develop design criteria and cost estimates for the 1.5-billion gallon per day ultimate capacity. The selected treatment train consists of bank filtration (BF), ozonation, and UV disinfection.

EXPERIENCE

40 years

EDUCATION

PhD Civil Engineering, University of Texas, Austin

MS Civil Engineering, University of Texas, Austin

BS Petroleum Engineering, University of Texas, Austin

REGISTRATION/LICENSES

Professional Engineer, FL No. 57828

PROFESSIONAL AFFILIATIONS

American Academy of Environmental Engineers, Board Certified Environmental Engineer

American Water Works Association, (AWWA)

Florida Section AWWA

Founding Director International Ultraviolet Association

Water Environment Federation

Reviewer for: ASCE Journal of Environmental Engineering Environmental Science and Technology

Journal of the American Waterworks Association

Water Research

Bob Cushing (Cont.)

Technical Advisor and Quality Assurance / Hydrogen Sulfide Treatment Improvements at the Lithia Water Treatment Plant / *Tampa Bay Water's, Florida*

Tampa Bay Water is tasked with developing, storing, and supplying water to Hillsborough, Pasco, and Pinellas counties and the cities of New Port Richey, St. Petersburg, and Tampa in a manner that reduces environmental effects of excessive or improper withdrawals. The South Central Hillsborough Regional Wellfield is owned by Tampa Bay Water, and groundwater from this facility is treated at the Hillsborough County Lithia Water Treatment Plant. The finished water from the Lithia WTP currently meets hydrogen sulfide removal requirements as specified in their Master Water Supply Contract. However, Tampa Bay Water will replace the current hydrogen sulfide removal facility with a new, more reliable process, and own and operate the new facility. This new hydrogen sulfide removal facility will rely on an ozonation process, and the delivery of this project will use an Engineer-Procure-Construction Management (EPCM) approach.

Technical Advisor and Quality Assurance / Rehabilitation and Expansion Reverse Osmosis Water Treatment Plant from 4.9 to 11.6-mgd / *North Lee County (NLC), Florida*

The NLC Reverse Osmosis WTP was completed in 2006 at a cost of over $30 million and was supposed to produce 6-mgd, however, a maximum flow of 4.9-mgd only was achieved. Bob oversaw the design phase of the design/build delivery of the improvements and expansion, which included major upgrades to the treatment plants electrical systems, increasing reverse osmosis feed pump sizes from 75 to 200-hp, and the addition a turbine assisted booster pump as an interstage booster pump device. The cost of the required improvements to meet the nameplate capacity for this facility is $17 million.

Technical Advisor and Quality Assurance / Environmental Services' Carlton Water Treatment Plant Inhibitor Feed System / *Sarasota County, Florida*

Carollo provided preliminary design, final design, permitting, and construction services for a new corrosion inhibitor feed system. Project included: analysis of various corrosion control strategies; finished water quality evaluation; water blending analysis using the RTW model and laboratory jar testing methods; and determination of preliminary design criteria for pH adjustment and corrosion inhibitor feed. Design services included: chemical metering pumps for feeding orthophosphate (corrosion inhibitor) and hydrochloric acid; a 2,500 gallon fiberglass storage tank for the orthophosphate; and a chemical transfer pump.

Principal-in-Charge / Well Chemical Feed Permitting and Design / *Tampa Bay Water, Tampa, Florida*

Provided design and construction permitting services for a new on-site disinfection and corrosion inhibitor chemical feed system for a small system well.

Principal-in-Charge / Preliminary Expansion Design for the Water Treatment Facility / *City of Venice Gardens Sarasota County, Florida*

The preliminary engineering report was generated to obtain the construction permit prior to detailed design. The expansion of the facility includes upgrades and expansion of five existing membrane trains, including conversion from single stage to two stage arrays and the addition of interstage boost energy recovery devices for flux balancing and energy savings. New post treatment facilities include a new degasifier and chemical scrubber for hydrogen sulfide removal, a carbon dioxide solution feed system for pre-degasifier pH adjustment, and post treatment alkalinity recovery. The carbon dioxide system, in conjunction with a new scale inhibitor system, allows for acid free operation of the RO system.

Technical Advisor and Quality Assurance / Nanofiltration Water Treatment Plant expansion from 2.5 to 9.6-mgd / *City of Palm Coast, Florida*

Florida Water Services selected Carollo and Harn R/O Systems as the design build team to design, permit, and construct the expansion in a challenging schedule of only 13 months. Design build services included the re-design of existing nanofiltration equipment and chemical feed systems, the addition of four additional membrane trains, and two additional degasification towers. Re-design of the existing process saves the owner approximately $100,000 per year in Operations and Maintenance costs by taking advantage of new technology.



TECHNICAL ADVISORY & QA/QC

Lyle Munce, PE

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Team Member Overview

Lyle has 40 years of environmental/civil engineering experience, with an emphasis on municipal water systems. He has served as client manager, project manager, project engineer, quality control coordinator, technical reviewer, and construction manager for numerous multi-disciplinary water related projects. Mr. Munce's project experience and technical expertise include membrane treatment, lime softening treatment, pilot- and bench-scale programs, raw and finished water quality analysis, concentrate injection well design and permitting, and air stripping and odor control. He has been responsible for preliminary and detailed final design of water treatment systems, water well design and permitting, comprehensive master planning, water treatment feasibility evaluations, design-build document production, construction management and administration, design of water and wastewater transmission facilities, utility system acquisition, and water system operations consultation.

EXPERIENCE

40 years

EDUCATION

MS Sanitary Engineering, South Dakota State University

BS Civil Engineering, South Dakota State University

REGISTRATION/LICENSES

Professional Engineer, FL No. 55097

PROFESSIONAL AFFILIATIONS

American Water Works Association

Florida Engineering Society

Relevant Project Experience

Principal-in-Charge / Sawgrass Water Treatment Plant Pipe Gallery Improvements / *City of Sunrise, Florida*

A leak occurred from a pipe restraining coupling at the 24-mgd membrane softening, nanofiltration Sawgrass WTP. The leak on one of the plant's two 30-inch diameter raw water mains temporarily took the plant offline. An investigation identified that immediate renewal and replacement of critical hydraulic components of the facility are necessary. Carollo will engineer the R&R features and develop construction documents.

Principal-in-Charge/Project Manager / Kermit H. Lewin Reverse Osmosis (RO) Facility / *Florida Keys Aqueduct Authority (FKAA), Florida*

Conceptual, preliminary, and final design, engineering services during construction, start-up, and commissioning for the new RO facility constructed at the current FKAA Stock Island utility site. The new facility will replace the existing 2-mgd seawater desalination plant with a new 4-mgd facility. It will consist of four new shallow seawater wells, cartridge filtration, four 1-mgd seawater RO treatment skids, degasification, transfer pumping, membrane cleaning system, and associated chemical feed systems. All equipment will be located above the 100-year flood level in a two-story concrete/cmu building. The permeate from the facility will be directed to the existing onsite potable water storage tank and pumping system. The concentrate from the treatment system will be disposed of in the existing injection well. The existing treatment system will be kept in service until the new facility is commissioned.

Lyle Munce (Cont.)

Principal-in-Charge / Sawgrass Concentrate Pipeline, Surge Tank, and Membrane Replacement Design / *City of Sunrise, Florida*

The City's intent is to install a new parallel replacement pipeline adjacent to the existing piping. The pipeline to be designed in this project extends approximately 1,300 linear feet.

Project Manager / Sawgrass Water Treatment Plant / *City of Sunrise, Florida*

This $40 million design project consisted of 18-mgd of nanofiltration capacity including all chemical feed, pumping, odor control, ozone and residual disinfection systems, concentrate injection well, stormwater infrastructure, remote pumping station, and instrumentation and control systems. Treatment system design incorporated state-of-the-art pumping and chemical feed advancements which serve to increase membrane treatment efficiency in terms of operating costs while also enhancing treated water quality.

Project Engineer / Preliminary and Final Design of the 28-mgd Membrane Softening Treatment Facility / *Palm Beach County Water Utility Department (PBCWUD), Florida*

Provided process design, wellfields, pumping and transmission facilities, air stripping, chemical storage and feed systems, and site design. This facility was designed to the 95% completion level and put on hold. It was re-engineered two years later with a reduced capacity.

Project Manager and Client Liaison / 12.0-mgd (4. 5 mgd initial capacity) Western Water Treatment Plant Membrane Softening Facility Construction / *City of Miramar, Florida*

This $35 million construction project consisted of a membrane process building and treatment systems which include chemical feed, air stripping, pumping, instrumentation, controls and power systems, site improvements, deep injection wells and raw water wells. Startup and training services along with operations monitoring and assistance were also provided.

Project Manager / Construction of a 3. 0 mgd (1. 5 mgd Initial) Membrane Softening Facility / *Village of Royal Palm Beach, Florida*

Construction consisted of membrane process building and treatment system, which included chemical feed, air stripping, pumping, instrumentation, controls and power systems, and site improvements. Start-up and training services along with operations monitoring and assistance was also provided.

Project Design Manager / North Lee County Reverse Osmosis Water Treatment Facility / *Lee County, Florida*

This facility had an initial capacity of 6 mgd, expandable to its build-out capacity of 10 mgd. The project consisted of a Florida aquifer wellfield, membrane, pretreatment, RO skids, post treatment, and concentrate disposal via a deep injection well. The pretreatment systems are comprised of antiscalant and sulfuric acid addition, followed by cartridge filtration. Actual treatment is accomplished utilizing two RO treatment skids, which are followed by degasification, disinfection and distribution system storage and pumping.

Principal-in-Charge/Project Manager / Norwood-Oeffler Water Treatment Plant Electrical Power Study / *City of North Miami Beach, Florida*

Carollo is performing an electrical power evaluation study.

Project Manager / Norwood-Oeffler Water Treatment Plant Final Design / *City of North Miami Beach, Florida*

Progressive design build of a clearwell and transfer pumps, high service pump station, 5 MG ground storage tank, and a pre-engineered storage warehouse.

Principal-in-Charge / Springtree Water Treatment Plant Improvements – Phase I (Reverse Osmosis to Nanofiltration Treatment Conversion) / *City of Sunrise, Florida*

The project entails design services for the conversion of a 2-mgd reverse osmosis filtration plant to nanofiltration. Responsible for the hydraulic calculations and new pump station design to convert to the new nanofiltration system.

Principal-in-Charge / Springtree Filter Rehabilitation – Design / *City of Sunrise, Florida*

The City desires to rehabilitate the existing filtration system as well as make changes to the potable water disinfection system as well as make changes to the potable water disinfection strategy with a focus on minimizing disinfection byproduct formation (DBPs). In addition to the filter system, there are other related ancillary WTP features that should be considered for refurbishment or replacement at this time to renovate aging assets and improve the facility's reliability to continue to produce potable drinking water.



TECHNICAL ADVISORY & QA/QC

Tom Seacord, PE

Team Member Overview

Tom is a nationally recognized expert in desalination and he has taken lead roles in over $1B worth of desalination project infrastructure. He is recognized by his clients for not only his national status as a desalination expert, but also for his focus on client service and the ability to help make sound decisions with regard to treatment, regulations, project costs, and operations. As a testimony to the quality of professional service he provides, he has multiple clients that he has continued to work for over periods that exceed 20 years.

Relevant Project Experience

Project Manager/Project Engineer/ North Lee County Reverse Osmosis (RO) Water Treatment Plant Injection Well Scaling Remediation Project / *Lee County Utilities, Florida*

The RO concentrate, blowdown from the odor control scrubbers, and other plant waste streams are combined and sent to the plant's deep injection well (DIW) for disposal. Mineral scaling of the concentrate pipeline and DIW casing occurred at the facility resulting in a declining trend in well efficiency over time. To determine the cause and find a solution for the scaling issue, Carollo performed a situational audit, evaluation of options, and recommended a solution.

Project Manager / North Lee County Water Treatment Plant Reverse Osmosis (RO) Expansion to 15 mgd / *Lee County Utilities, Florida*

This project will address footprint, hydraulic, electrical and treatment related infrastructure improvements required to expand the NLC WTP beyond its planned 10-mgd buildout RO capacity, to 15 mgd.

Reverse Osmosis Design Engineer / Stock Island Seawater Desalination Plant Design / *Florida Keys Aqueduct Authority, Florida*

This $50 million project will produce 4 mgd and replaces an aging desalination plant originally constructed in 1980 and refurbished in 1998. Energy efficiency was built into the desalination process design using multiple axial piston positive displacement feed pumps and isobaric energy recovery devices.

Project Manager/ Project Engineer / RO WTP Upgrades Evaluation Project / *Island Water Authority Florida*

Evaluated expansion and reliability upgrades to an RO WTP originally constructed in 1980. Upgrades included replacing RO trains, modernization of electrical infrastructure bringing it to EPA Class I reliability standards, and conversion from gas chlorine to sodium hypochlorite.

EXPERIENCE

29 years

REGISTRATION/LICENSES

Professional Engineer, FL No. 58287, UT, GA, NC, SC, OH, IL, TX

Environmental Engineer, ID

EDUCATION

MS Civil and Environmental Engineering, Clarkson University, New York

BS Civil and Environmental Engineering, Clarkson University, New York

PROFESSIONAL AFFILIATIONS

American Water Works Association

American Membrane Technology Association
- Board of Directors (2002- 2015)

- Chairman Government Affairs Committee

Southwest Membrane Operators Association

Southeast Desalting Association

International Desalting Association

Northwest Membrane Operators Association
- Board of Directors (2012- 2014)

Tom Seacord (Cont.)

Project Manager/Project Engineer / Expansion North Lee County (NLC) Reverse Osmosis (RO) Water Treatment Plant from 11.6 to 17.4 mgd. / *Lee County Utilities, Florida*

This $50-million project expands the NLC WTP beyond its nameplate capacity and updates the treatment plant's electrical system to EPA Class I reliability standards. A new clearwell (including degasification and biological odor control), RO process building No. 2, and a new administration/electrical building was added while the existing plant was kept in operation.

Project Manager/Project Engineer / North Lee County (NLC) Reverse Osmosis (RO) Water Treatment Plant Rehabilitation and Expansion from 4.9 mgd to 11.6 mgd / *Lee County Utilities, Florida*

The NLC RO Water Treatment Plant was completed in 2006 at a cost of over $30 million and was supposed to produce 6 mgd, however, a maximum flow of 4.9 mgd as only achieved. Tom led the design phase of the design/build delivery of the improvements and expansion, which included major upgrades to the treatment plant's electrical systems, increasing RO feed pump sizes from 75 to 200 HP, and the addition a turbine-assisted booster pump as an interstage booster pump device. The cost of the required improvements to meet the nameplate capacity for this facility is $17 million.

Project Manager / Design/Build Delivery Pinewoods Water Treatment Plant Nanofiltration Rehabilitation and Reverse Osmosis (RO) Expansion to 5.3 mgd / *Lee County Utilities, Florida*

The project involved the rehabilitation of an existing 2.1 mgd nanofiltration water treatment plant that has been in operation since 1990 and the expansion of this facility with 3 mgd of RO treatment capacity from a new source. The nanofiltration plant treats hard surficial groundwater containing 6 mg/L of iron without iron removal pretreatment. The expansion also included a new degasification and odor-scrubbing processes, additional ground storage, and expanded high-service pumping. Managed the design team and served as the Engineer of Record. The total cost for this project is $10 million.

Reverse Osmosis (RO) Process Designer / Northeast Regional Water Treatment Plant / *Collier County, Florida*

This $70 million Greenfield 10 mgd brackish RO treatment plant (expandable to 40 mgd) includes a design that must respond to degrading water quality and more than 8 mg/L of hydrogen sulfide. Key features of the RO design include no-acid pretreatment, noise isolation of the RO feed pumping, accessibility to all instruments and valves, and pressure exchangers for energy recovery.

Project Manager / Reverse Osmosis (RO) Production Capacity Analysis / *City of North Port, Florida*

The City's new RO plant was not able to meet its nameplate production capacity of 1.5 mgd due to saltwater intrusion and control system programming problems. This study evaluated short- and long-term solutions to maintain the nameplate production capacity and maintain opportunities for future expansion in the context of the existing electrical service. Carollo identified programming fixes that would allow the City to reach nameplate production capacity immediately but identified over $2 million in capital improvements that would be necessary within the next 3 years to address the saltwater intrusion.

Project Manager/Project Engineer / Nanofiltration Water Treatment Plant Expansion from 2.5 to 9.6 mgd / *City of Palm Coast, Florida*

Florida Water Services selected Carollo and Harn R/O Systems as the design build team to design, permit, and construct the expansion in a challenging schedule of only 13 months. Design build services included the re-design of existing nanofiltration equipment and chemical feed systems, the addition of four additional membrane trains, and two additional degasification towers. The redesign of the existing process saves the owner approximately $100,000 per year in Operations and maintenance costs by taking advantage of new technology that was not available when the plant was originally constructed in 1992.

Project Manager / Design-Build Delivery Reverse Osmosis (RO) Treatment Plant Rehabilitation Project / *Sun-N-Fun Resort, Florida*

The project included the replacement of the existing RO treatment equipment with a new train capable of 200,000 gpd production. Managed permitting and design and construction-phase engineering efforts, including the integration of a new control system.

Engineer of Record / Design-Build Delivery Babcock Ranch Water System / *Charlotte County, Florida*

This new water system consists of a new Reverse osmosis (RO) treatment plant, storage tank, high-service pump station and distribution piping. RO concentrate is disposed to a reuse system and used for irrigation.



TECHNICAL ADVISORY

Eva Steinle-Darling, PhD, PE

Team Member Overview

Eva is Chief Technologist for Reuse and PFAS, leading Carollo's overall efforts to support utility client response to PFAS challenges in water and wastewater. She has served as technical advisor for a dozen PFAS treatment studies and designs, including several fully constructed and operational projects. 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.

EXPERIENCE
30 years

REGISTRATION/LICENSES
Professional Registration, TX

EDUCATION
PhD Civil and Environmental Engineering, Stanford University

MS Civil and Environmental Engineering, Stanford University

BS Chemical Engineering, Princeton University

PROFESSIONAL AFFILIATIONS
WateReuse Association

Water Research Foundation

American Water Works Association

Water Environment Federation

Relevant Project Experience

Technical Advisor / Direct Potable Reuse Demonstration Pilot pureALTA / *City of Altamonte Springs, Florida*

This international award-winning, permanent demonstration project implemented a new carbon-based advanced treatment approach to direct potable reuse. Provided key technical insights and sampling support for innovative water quality testing across a wide range of conventional and emerging contaminants, surrogates, such as bioassays, and other advanced analytics.

Technical Advisor / Indirect Potable Reuse Project / *Toho Water Authority, Florida*

The project involved pilot testing soil aquifer treatment for contaminants of emerging concern removal as part of a groundwater augmentation potable reuse project.

Technical Advisor / Tampa Augmentation Project / *City of Tampa, Florida*

The City proposed an indirect potable reuse project in which UV-disinfected tertiary reclaimed water will be used to augment groundwater that will be extracted and blended with surface water prior to enhanced surface water treatment. Oversaw major technical and public health decisions, including reviewing the basis of design and the full-scale sampling approach, implementing a Quantitative Microbial Risk Assessment (QMRA), and providing permitting support.

Technical Advisor, Lead for CEC and PFAS / Regional Water Quality Study / *Tampa Bay Water, Florida*

The project consisted in the study and development of a plan to treat total organic carbon (TOC) and other CECs, such as PFAS. The goal of this study is to define optimized solutions and an implementation plan to help Tampa Bay Water and its Member Governments achieve enhanced water quality. The reduction of TOC is a primary objective, in order to facilitate lower disinfectant demand and increased stability, lower disinfection byproducts, increased water conservation via reduced flushing volumes, lower nitrification potential, and better management of calcium hardness variability. Other water quality parameters that will be evaluated in this

Eva Steinle-Darling (Cont.)

study include color, iron, sulfide, nitrate, calcium hardness variability, and pH.

Process Innovation Lead / Greenfield Reuse Treatment Facility with Ozone, GAC, UV, and Ion Exchange for PFAS Removal / *Hampton Roads Sanitation District, Virginia*

Carollo is teamed with Garney and Tetra Tech providing preliminary engineering services, permitting support, final design, construction, and facility start-up/troubleshooting services for a new 34-mgd reuse treatment plant as part of HRSD's SWIFT program to recharge the Potomac Aquifer with highly treated water and address concerns associated with Chesapeake Bay restoration, sea level rise, and saltwater intrusion. Carollo is leading the design of conventional treatment facilities and all advanced treatment processes, including, ozone, GAC, ion exchange for PFAS removal, and UV.

Technical Advisor / Lake Mary Water Treatment Technical Support Project / *City of Lake Mary, Florida*

Provided expert review on treatment approaches and deliverables for this PFAS treatment project.

Technical Advisor / Study of PFAS Removal from Groundwater Used for Drinking / *Cities of Yorba Linda and Corona, California*

Yorba Linda Water District completed a PFAS Water Treatment Plant using Ion Exchange for bringing groundwater back online in the 11 production wells previously shut down in response to lower response levels enacted by the state. As part of the Owner's Advisor team, Eva provided technical expertise to the project team on project packages, conceptual design, and DDW permitting support.

Technical Advisor / PFAS Treatment Alternatives and Implementation Plan / *City of Pleasanton, California*

Assisted the City of Pleasanton rapidly identify PFAS treatment alternatives for its three active wells (5, 6, and 8) and develop an implementation action plan to address PFAS compounds.

Project Advisory Committee Member / Project 4913, "Investigation of Treatment Alternatives for Short-Chain Poly and Perfluoroalkyl Substances / *Water Research Foundation / Denver, Colorado*

This study 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.

Technical Advisor / PFAS Treatment Systems Planning Study / *Orange County Water District, California*

This study was 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.

Principal Investigator / Water Research Foundation Project 5082, "Investigation of Alternative Management Strategies to Prevent PFAS from Entering Drinking Water Supplies and Wastewater" / *Water Research Foundation / Denver, Colorado*

Leading a team of PFAS leaders in consulting, academia, and utility researchers to develop comprehensive guidance on PFAS source evaluating and mitigation strategies.

Principal Investigator / Water Research Foundation Project 4833, "Understanding the Impacts of Wastewater Treatment on Advanced Treatment for Potable Reuse" / *Water Research Foundation / Denver, Colorado*

Leading a multi-disciplinary team of consultants and academic partners in an effort to understand key aspects of the interrelation between wastewater treatment and advanced treatment. This project seeks to systematically understand operational and cost trade-offs between effluent water quality and downstream advanced treatment impacts across a wide range of treatment processes.

Principal Investigator / Water Research Foundation Project 17 30, "Demonstration of Real-Time Monitoring of Collection Systems as part of Enhanced Source Control for Potable Reuse" / *Water Research Foundation / Denver, Colorado*

The study determined the readiness of online sensors to detect illegal dumping events with a focus on protecting the source water for potable reuse. Oversaw 6-month field demonstrations of real-time monitoring sensor systems in three utility partners' collection systems that highlighted the important potential benefits of the monitoring approach, as well as the significant remaining hardware challenges related to this approach.



MASTER PLANNING/ PERMITTING

Laura Baumberger, PE

Team Member Overview

Laura, a senior vice president with Carollo, has 22 years of experience in the water and wastewater field. She has experience in master planning, hydraulic modeling, and asset management to provide comprehensive planning services to Florida utilities. Laura has developed master plans totaling $1.7B in recommended CIP projects. She also has provided permitting and regulatory assistance, water and wastewater studies, collection system evaluations, and bond engineering services.

Relevant Project Experience

Principal-in-Charge / Engineer's Report for Series 2025 Bonds / *Manatee County, Florida*

Carollo will provide professional engineering services to prepare a consulting engineer's report in support of the issuance of utility system revenue bonds for Manatee County Utilities. The consulting engineer's report will include a review of the water and wastewater utility system, treatment facilities, operations, ongoing projects that will increase treatment capacity or upgrade facilities, the County's capital improvements program, and regulatory compliance. The consulting engineer's report will address the engineering aspects of the treatment facility infrastructure, operational performance, and regulatory compliance to maintain the viability of the utility and the facilities for which bonds will be secured. Carollo will prepare the consulting engineer's report for inclusion in the official statement for the 2025 bonds.

Project Manager / Water Audit / *City of Punta Gorda, Florida*

Special Condition 12 of the City of Punta Gorda (City) Water Use Permit mandates the submission of an annual Public Supply Annual Report (PSAR) to the Southwest Water Management District. Should water loss exceed 10 percent of total distribution quantities, a comprehensive water Audit must be conducted and submitted. In the recently filed 2023 PSAR, the City reported a water loss exceeding this threshold, necessitating the completion and submission of a water audit by October 1, 2024. This specific authorization aims to provide engineering services to complete and submit the City's 2023 water audit in cooperation with the City. The water audit shall evaluate possible sources for the water losses and provide a schedule for a remedial action plan to reduce water losses below 10 percent.

Principal-in-Charge / 2024 Master Reuse System Master Plan / *Pasco County, Florida*

The County's primary goals of this project are two: one. Complete population projections for use in the County's potable water master plan, wastewater master plan, and reclaimed water master plan. 2. Complete a system water balance for seasonal effluent flow management. 3. Complete a 20-year Pasco County Master Reuse System Master Plan (PCMRSMP) which shall include a recommended CIP with planning periods and model scenarios at the 5-year, 10-year, and 20-years.

EXPERIENCE

23 years

REGISTRATION/LICENSES

Professional Registration, FL No. 65401

Civil Engineer, CA

EDUCATION

MS Environmental Engineering, South Dakota State University

BS Civil Engineering, South Dakota State University, 2002

BA Spanish, South Dakota State University

PROFESSIONAL AFFILIATIONS

American Water Works Association

Water Environment Federation

Laura Baumberger (Cont.)

Principal-in-Charge / Utility Ordinance Update / *City of Punta Gorda, Florida*

The City of Punta Gorda has undergone significant changes in operations, seen increased concerns around water scarcity and conservation, and wants to refine its ordinances to address both present and emerging challenges effectively. The purpose of this scope of to undertake a thorough review and update of the City's Chapter 17 (Public Utilities) ordinances. This process will involve a detailed assessment of the current language, considering whether additional provisions or revisions are necessary to enhance the ordinance's effectiveness and address all major considerations facing the City's Utility Department.

Principal-in-Charge / FY 2025 Planning and Technical Assistance for the Water Treatment Plant / *Manatee County, Florida*

This project is to provide as-needed professional engineering services for the water treatment plant.

Principal-in-Charge / Administration Engineer's Report for Series 2025 Bonds / *Hillsborough County, Florida*

This project is to provide professional engineering services to prepare a Consulting Engineer's Report for issuance of utility system revenue bonds for the Hillsborough County Water Resources Department (WRD). The report will include a review of utility system operations, water and wastewater treatment facilities, ongoing projects that will increase treatment capacity or upgrade facilities, WRD's planned capital improvement program, and regulatory compliance. Items regarding customer fees, revenues, debt service, and other issues regarding financial status are not included and should be provided by a qualified expert in rate assessment and accounting practices. WRD has retained Raftelis to complete the items for financial feasibility. This work order addresses only the engineering aspects of the treatment facility infrastructure, operational performance, and regulatory compliance to maintain the viability of the utility and the facilities for which bonds will be secured.

Principal-in-Charge / FY 2024 System Report / *Hillsborough County, Florida*

Under this Work Order, Carollo Engineers, Inc. (Carollo) will provide professional engineering services to prepare a System Report for Fiscal Year (FY) 2024 for the Hillsborough County (County) water, wastewater, and reclaimed water systems (Utility System). Carollo will provide these services to the County Water Resources Department (WRD) under the terms of BOCC Document No. 24-0830 for Bond Engineering Professional Services.

Principal-in-Charge/Project Manager / Underground Injection System FY 2024 Permitting and As-Needed Services / *Manatee County, Florida*

This project provided professional services for the Southwest Water Reclamation Facility (SWWRF) Recharge Well I, (RW-1) Class V Operations Permit Renewal and Underground Injection Control (UIC) as-needed services. This was completed with the assistance of a hydrogeological subconsultant ASRus.

Principal-in-Charge / FY23 Wellfield Support Services / *Punta Gorda, Florida*

The purpose of this specific authorization was to authorize Carollo to continue wellfield management consulting services for water years (WY) 2022 through 2025 (October 1, 2022 to September 30, 2025), which included the continuation of completing and reviewing pumpage and water quality data required by special conditions 15, 16, 17, 18, and 19 of the current WUP and presenting findings. In addition, this SA 14 included the development and submittal of the WY 2022 to 2024 wellfield annual reports required by special condition six. Each fiscal year work was contingent on appropriation of funds and issuance of a purchase order in the stated fiscal year scope of work.

Principal-in-Charge / WA #16 Utility Engineering Projects, and Regulatory Permitting Assistance / *Sarasota County, Florida*

Carollo provided professional services to Sarasota County to assist with utility engineering projects and regulatory permitting. This included several County Utility tasks associated with utility permitting and regulatory reviews for new developments.

Project Manager / Water Use Permit Modification and Treatment / *Manatee County, Florida*

Manatee County holds water use permit (WUP) No. 20013343.002 issued by the Southwest Florida Water Management District (District). The County's WUP allows for raw water supply withdrawals from the County's potable water supply sources. The current average annual withdrawal quantity is 54.84-mgd. The purpose of this work assignment was to modify the existing WUP to convert the current 3.1-mgd flexibility quantity assigned to the East County Wellfield to the total permitted allocation. Per Special Condition 21 of the WUP, adding the flexibility quantity to the assigned East County Wellfield allocation also adds the quantity to the total allocation of the WUP. This conversion required a full modification of the WUP to increase the total allocation and will be supported by future potable water demand projections.



SOFTENING/ ION EXCHANGE

Vincent Hart, PE, ENV SP

Team Member Overview

Vinnie is an industry-known leader, bringing more than 30 years dedicated to the water industry. His career spans the "water softening belt" from Florida and Texas to Colorado and the Midwest. His expertise in the theory and practice of softening stands as demonstrated through his tangible experience and numerous publications on the topic – Vinnie literally "wrote the book." The value of his experience and expertise is exemplified by pellet softening, a process that has been practiced for over 50 years. Innovations developed by Vinnie have been adopted by manufacturers, leading to a resurgence in the application of the process in recent years.

His relevant experience includes the North Miami Beach Norwood-Oeffler WTP Project, which will potentially result in the first advanced pellet softening facility in Florida, and the South Adams Water and Sanitation District Softening Improvements Design, which was the first pellet softening design in Colorado. He also served as technical advisor for the New Smyrna Beach 12 mgd Pellet Softening Plant, Florida.

Relevant Project Experience

Process Engineer / City of North Miami Beach Norwood-Oeffler Water Treatment Plant Pellet System Final Design / *City of North Miami Beach and NMB Water, Florida*

The City has embarked in a long-term plan that includes getting out of the conventional softening business. As part of the work, Carollo recommended a step approach where the old and aged lime facilities will be replaced with new pellet softening technology that significantly reduces the need to handle lime and produces a renewable, revenue generating product. We also presented innovative ideas for how the City can begin transitioning away from lime softening using membrane technology, such as implementing a integrated 3rd stage NF that treats NF concentrate from both new and existing NF system. The simple 3rd stage NF will recover an additional 25% of water, and increase overall NF system recovery to 85%.

Project Manager / Pellet Softening System for the Glencoe Water Treatment Plant / *City of New Smyrna Beach, Florida*

This project is to provide expert services for pellet softening and Trihalomethanes (THMs) mitigation investigation.

Process Engineer / Sawgrass Water Treatment Plant Upgrade and Expansion / *City of Sunrise, Florida*

The Sawgrass Water Treatment Plant is a membrane softening facility utilizing nanofiltration (NF) as the primary process to treat water from the Biscayne Aquifer. The City sought to expand its capacity, improve overall facility water recovery, and water quality, and obtain an analysis of options for new brackish water treatment facilities. Carollo provided study and design for the 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 alternatives.

EXPERIENCE
33 years

EDUCATION
MS Environmental Engineering, Virginia Polytechnic Institute and State University

BS Environmental Engineering, Syracuse University

REGISTRATION/LICENSES
Professional Engineer, FL No. 96251, CO, GA, KS, MI, MN, MS, NJ, NC, TN

CERTIFICATES
Envision Sustainability Professional, Institute for Sustainable Infrastructure

PROFESSIONAL AFFILIATIONS
American Water Works Association

Water Environment Federation

American Society of Civil Engineers

National Association of Corrosion Engineers

Vinnie Hart (Cont.)

Process Leads / Design of the Hialeah, and Preston (22 mgd combined) Water Treatment Plants / *Miami-Dade Water and Sewer Department, Florida*

This project identified process modifications and improvements to the conventional lime softening water treatment plants to address a reclassification of one of the water sources as ground water under the direct influence of surface water.

Project Manager / Pellet Softening Disinfection Improvements Project / *South Adams County Water and Sanitation District, Colorado*

The project consisted of the design of a full-scale pellet softening system at the Klein WTF for the removal of calcium hardness. This included a series of pellet reactors, a stabilization basin for pH adjustment, anthracite over sand filters for turbidity removal, a new chemical storage building, and all the associated facilities required to implement the system. Also included in this project is the design of a temporary sodium hypochlorite feed system which allowed the District to continue operating the facility during construction after the existing chlorine system was demolished.

Project Engineer / Water Treatment Plant No. 2 Ion-Exchange Treatment System / *Palm Beach County, Florida*

Carollo provided design, construction administration, and startup and commissioning services for a magnetic ion exchange (MIEX®) treatment system at Water Treatment Plant 2. The project included installation of an MIEX® treatment system to achieve dissolved organic carbon control and color reduction from the source water. In addition, the ion-exchange system reduced the potential for disinfection byproduct formation by removing organic precursors and provided the benefits of reducing the chlorine demand in downstream treatment.

Design Manager / David L Tippin WTF (DLTWTF) Master Plan Design Build / *City of Tampa, Florida*

This project includes the assessment of the needs for the rehabilitation and improvement projects, selection and evaluation of design alternatives and requirements, development of construction sequencing and project phasing needed to maintain plant operations and reduce construction cost, final design, permitting, project management, overhead, profit, and development of a guaranteed maximum price with appropriate surety bonds. The 82-mgd (average daily flow) treatment plant utilizes three parallel coagulation, flocculation, and sedimentation treatment trains. Two trains employ conventional rapid mix, flocculation, and sedimentation processes. The third train utilizes the Actiflo process. Ferric sulfate is used as the coagulant; it is supplemented with a polymer. The primary disinfectant is ozone. Disinfected water is filtered through mixed bed filters before chlorine and ammonia are added for a secondary disinfectant. Services include engineering investigations, site planning, cost estimating, advertising, and administration of subcontracts, startup, preparation of O&M manuals, training, and all related work required for to complete the DLTWTF improvements.

Project Engineer / Dean Water Treatment Plant Softener Rehabilitation / *Florida Keys Aqueduct Authority, Florida*

Project involves rehabilitation and upgrade of an up flow clarifier. It is anticipated that the identified upgrade will be accomplished by the treatment system original equipment manufacturer (OEM) through a direct contract with the FKAA. Carollo will support FKAA with the specifying of the upgrade improvements and will review softener rehabilitation construction shop drawings submitted by the OEM.

Technical advisor / Ion Exchange Treatment System and East Water Treatment Plant Improvements Progressive Design-Build / *City of Boynton Beach, Florida*

The project included initial engineering and constructability evaluations, permitting, design, and construction of a 16.0-mgd ion exchange system (MIEX®), associated ancillary systems, and raw water transmission main modifications.

Design/Technical Reviewer / Owner's Representative for Water Treatment Plant / *City of Brighton, Colorado*

The City of Brighton has been planning and designing a 20-mgd water treatment plant (WTP) for many years and is now poised for the construction phase. Carollo was hired to manage the construction manager-at-risk (CMAR) project through design completion, construction, and startup. The project includes a complex work schedule and numerous stakeholders to coordinate with to determine the optimal path forward.

Project Manager/Engineer / Expansion Design of the Chino II Desalter from 10 to 20.5 mgd / *Western Municipal Water District, the City of Ontario, and the Jurupa Community Services District California*

The expansion is part of the overall Chino Basin Phase III project and was funded by a grant from the State of California and matching funds from three project sponsor agencies (Western Municipal Water District, the City of Ontario, and the Jurupa Community Services District). In addition to 6.5 mgd of new reverse osmosis capacity, the expansion design included a 4-mgd expansion of the nitrate removal ion exchange system.



MEMBRANES

Brandon Yallaly, PE

Team Member Overview

Brandon has 27 years of experience. His expertise is in all areas of membrane WTP 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. Additionally, Mr. Yallaly has executed process and detailed designs implementing lime softening and ion (anion) exchange processes.

Relevant Project Experience

Project Engineer / Design of the 125-mgd (expandable to 165-mgd) Nanofiltration Process Water Facility / *Miami-Dade County, Florida*

The source water is a colored groundwater under direct influence. Mr. Yallaly is responsible for the nanofiltration system evaluation and design, including assessment of raw water pumping, recovery and flux establishment, membrane system staging, and mechanical arrangements in support of the 50-percent design effort.

Lead Process Mechanical Engineer / Preliminary and Final Expansion Design for the Venice Gardens Water Treatment Facility / *Sarasota County, Florida*

The expansion of the facility includes 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 offsite concentrate disposal, new and upgraded caustic soda, aqua ammonia, sodium hypochlorite, and corrosion inhibitor systems, and an updated control system. The carbon dioxide system, in conjunction with a new scale inhibitor system, allows for acid free operation of the reverse osmosis system.

Reverse Osmosis (RO) System Design Engineer / 6-mgd Bonita Springs RO Water Treatment Plant / *Bonita Springs, Florida*

The process includes a wellfield, raw water transmission line, RO pretreatment (cartridge filters, acid, and scale inhibitor), RO, degasifier, product transfer, and disinfection. Concentrate from the process discharges to a deep injection well. Mr. Yallaly was responsible for the design of the treatment components, including the RO membrane system, cartridge filters, and membrane cleaning system. The facility consists of four 1.5-mgd (permeate capacity) RO skids. A future expansion of the facility will consist of four additional 1.5-mgd RO systems.

EXPERIENCE
27 years

EDUCATION
MS Civil and Environmental Engineering, Auburn University

BS Civil Engineering with Honors, University of Florida

REGISTRATION/LICENSES
Professional Engineer, FL No. 60307

PROFESSIONAL AFFILIATIONS
American Water Works Association

American Membrane Technology Association

Brandon Yallaly (Cont.)

Lead Engineer / Design and Permitting of the 1-mgd Ave Maria Utilities Company Membrane Softening Facility / *Ave Maria Towne, Florida*

The first phase of the project involved permitting of the facility by preparing a preliminary engineering report, an alternative to submitting completed drawings and specifications. The process includes raw water wells, raw water transmission line, pretreatment (cartridge filters, acid injection, scale inhibitor injection), nanofiltration systems (0.5-mgd permeate capacity per skid), degasifier/scrubber system (hydrogen sulfide removal), product transfer pump station, post-treatment (residual disinfection and corrosion control), and high service pump station. Additionally, Mr. Yallaly contributed to the innovative concentrate disposal strategy, which involved discharge to a wastewater treatment plant where it was blended with raw wastewater, treated, and discharged to a reuse system. This alternative concentrate disposal process avoided the construction of a costly deep injection well.

Lead Design Engineer / 0.9-mgd (Expandable to 1.8-mgd) Dunes Community Development District Reverse Osmosis Water Treatment Plant / *Palm Coast, Florida*

The first phase of the project consists of a 0.9-mgd facility (expandable to 1.8-mgd) and new administrative building. The process includes pretreatment (cartridge filters, acid injection, and scale inhibitor injection), membrane systems (0.45-mgd permeate capacity per skid expandable to 0.9-mgd permeate capacity), degasifier/scrubber system (hydrogen sulfide removal), product transfer pump station, post-treatment (residual disinfection and corrosion control), and high service pump station.

Project Manager/Project Engineer / Expansion Design of the Chino II Desalter from 10 to 20.5 mgd / *Chino Basin, California*

The expansion is part of the overall Chino Basin Phase III project and was funded by a grant from the State of California and matching funds from three project sponsor agencies (Western Municipal Water District, the City of Ontario, and the Jurupa Community Services District). The expansion design included new cartridge filters, new reverse osmosis (RO) feed pumps, two 3.25-mgd RO trains, a new decarbonator, modifications to the existing transfer pump station, post treatment modifications, and expansion of the nitrate removal the ion exchange system. The expansion components include upgraded features for process control, data monitoring, and facility maintenance.

Project Manager / Wells 21 and 22 Reverse Osmosis Plant Design-Build Bid Documents and Pre-Qualification Process / *Irvine Ranch Water District, California*

Project involved developing the final process design, detailed process and instrumentation drawings, site layouts, and technical specifications that served as the basis of bid development for the pre-qualified design-build teams.

Lead Reverse Osmosis (RO) Process Engineer / Advanced Water Purification Pilot Facility / *El Paso Water Utilities Service Board, Texas*

The AWPF treats water from the Bustamante WWTP using MF/UF, RO, UVAOP, GAC, and chlorination for direct distribution as potable water. The 7.20-mgd RO system removes dissolved solids, TOC, bicarbonate, and other dissolved constituents in order to improve performance of the downstream UVAOP, meet primary and secondary drinking water standards, and reduce potential for DBP formation.

Reverse Osmosis (Ro) Process Design Lead / Pure Water Indirect Potable Reuse Facility / *City Of San Diego, California*

The facility uses ozone, biofiltration, ultrafiltration, pH adjustment and antiscalant addition as pretreatment for the RO system. The pretreatments systems are capable of producing 40-mgd of RO feedwater. Mr. Yallaly led the design of the 3-stage RO systems, capable of producing 34-mgd of RO permeate. The RO permeate is adjusted for pH and treated with UV and hypochlorite prior to being stabilized with lime and CO2. The product water is conveyed to the Miramar Reservoir, which serves as a raw water supply for the City of San Diego.

Project Engineer / Deuel Vocational Institution 0.8-mgd Reverse Osmosis (RO) Water Treatment Plant / *Tracy, California*

The facility consists of 0.59 mgd of RO capacity, with the balance of the capacity comprised of distillate from treatment of the RO concentrate. The concentrate is treated with a falling film vapor compression brine concentrator to recover approximately 98 percent of the RO concentrate. Mr. Yallaly designed all aspects of the RO and brine concentrator processes, including pretreatment, post treatment, chemical feed systems, product transfer pumping, and slurry management.



REUSE/ WATER TREATMEN T

Pranjali Kumar, PE

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Team Member Overview

Pranjali brings 12 years of experience as an environmental engineer focusing in process design and operation of advanced water treatment systems. Pranjali has led and successfully delivered several feasibility studies for water utilities that have resulted in practical implementation of water supply solutions. She brings a combination of sound process-related knowledge, navigating complex regulatory requirements, and is adept at identifying synergies between treatment-related decisions and project costs. Her design experience of full-scale water and wastewater projects adds to the skill set needed for developing economic, equitable, and affordable water supply solutions.

Relevant Project Experience

PURE Project / Permitting and Regulatory Expert / *City of Tampa, Florida*

The City proposed a unique 50-mgd indirect potable reuse project involving groundwater and surface water augmentation. Role included providing input on permitting pathways amidst evolving regulatory frameworks and rules.

Project Engineer Parkway WTP Disinfection Byproduct Mitigation / *Toho Water Authority, Florida*

Pranjali served as the project engineer on this project that involved modifying treatment at the WTP to remove total organic carbon to minimize total trihalomethanes formation in the distribution system after disinfection with sodium hypochlorite. Treatment modifications include installation of an ion exchange system prior to chlorination to assist in decreasing the total organic carbon loading in the raw water. Project phases included piloting, design of a 8-mgd ion exchange system at 50 percent, 90 percent, and final design, construction.

Project Manager / Alternative Water Supply – Potable Reuse Pilot Operation and Testing Support / *Clay County Utility Authority (CCUA), Middleburg, Florida*

CCUA is investigating potable reuse as an alternative water supply solution. As part of this potable reuse project, a pilot facility consisting of carbon-based advanced treatment (CBAT) processes is under construction at the Mid-Clay Regional Water Reclamation Facility (MCRWRF) site. Under this scope of services, Carollo will operate the pilot and provide technical support and assistance over the course of the pilot system operation and testing.

Project Manager / Indirect Potable Reuse Alternatives Feasibility Study / *Reedy Creek Improvement District (RCID), Florida*

Performed an alternatives analysis study to determine the feasibility of developing a future indirect potable reuse (IPR) system to diversify the District's water supply portfolio and reduce reliance on rapid infiltration basins (RIBs) for management of excess reclaimed water.

EXPERIENCE

12 years

EDUCATION

MS Civil Engineering, University of Colorado, Boulder, 2015

BE Civil Engineering, Nagpur University, 2013

REGISTRATION/LICENSES

Professional Engineer, FL No. 88305

PROFESSIONAL AFFILIATIONS

Trustee, WateReuse Association Florida, 2019-Present

Water Reuse Committee, Water Environment Federation, 2018-Present

Water Reuse Committee, American Water Works Association

National Young Professionals Committee, American Water Works Association, 2020-Present

Member, WateReuse Association

Pranjali Kumar (Cont.)

Technical Expert / State-wide initiative to promote recycled water for sustainable supplies in Florida / *One Water Florida and WateReuse, Florida. One Water Florida*

Pranjali shares her technical expertise in advanced treatment and details of removal of pathogens and contaminants at many events/efforts undertaken by this initiative. She participates in public outreach events to effectively communicate the science behind treating wastewater effluent for drinking water purposes. Pranjali also serves on the regulatory committee of WateReuse Florida, an advocacy group working closely with the Florida Department of Environmental Protection to develop direct potable reuse rules in the State. Her contributions include providing technical input on rule language, reviewing rule drafts for applicability to ongoing and upcoming potable reuse projects.

Project Manager / Potable Reuse Project – Potable Reuse Pilot Project / *Polk County Utilities, Florida*

This project investigated the feasibility of soil aquifer treatment as a treatment barrier for indirect potable reuse at Polk County. Owing to unfavorable hydrogeology, this concept has now morphed into a direct potable reuse (DPR) project augmenting the raw water supply of a water treatment plant. The treatment train includes enhanced coagulation, O3/BAC, UF, GAC, UV, and chlorine disinfection. In addition to overall project management, Pranjali's role involves process design of advanced treatment required for pathogens, regulated and unregulated contaminants, design of a pilot facility for successful demonstration of treatment. Consulting Engineer for Potable Reuse Commission, Florida – Framework for Implementation of Potable Reuse in Florida. To advance rulemaking for direct potable reuse in Florida, the Potable Reuse Commission developed a guidance document for the Florida Department of Environmental Protection and legislators for their use. Pranjali assisted in the capacity of a consulting engineer on technological needs for potable reuse treatment schemes. She also assisted by authoring portions of the guidance document.

Task Manager / Potable Reuse Pilot Construction Administration, Operations Support, and Public Outreach / *Clay County Utility Authority (CCUA), Middleburg, Florida*

CCUA was investigating potable reuse as an alternative water supply solution. As part of this project, a pilot facility was designed and constructed at the Mid-Clay Regional Water Reclamation Facility. This scope of work included the administration of the pilot facility construction and startup of the pilot. Upon completion of the construction, Carollo continued to provide technical support and operations assistance for the pilot system operations and testing. Carollo also developed and implemented a public communication and outreach program as part of this potable reuse project.

Assistant Project Manager / Advanced Purification Project Development of a Pilot Conceptual Design and Draft Pilot Test Plan / *City of Spring Hill, Tennessee*

The City was considering an advanced purification project to purify water from the City's wastewater treatment plant for discharge to a raw water reservoir and downstream potable treatment. Under this initial task order a pilot test plan was developed for submittal to the Tennessee Department of Environment and Conservation (TDEC). To develop the pilot test plan, the team developed a conceptual design for the advanced purification facility to inform the pilot test plan with respect to treatment goals, treatment processes, and monitoring equipment. The team will meet with TDEC to obtain feedback on the draft pilot test plan, to determine next steps for the project.

Project Manager / East Water Reclamation Facility (EWRF) Potable Reuse Basis of Design / *Orange County Utilities (OCU), Florida*

Orange County Utilities serves the greater Orlando area and is investigating alternative water supplies to meet future demands. This project is the first step in a potable reuse program to augment their supply. This stage of the program focuses on characterizing wastewater effluent and identifying feasible advanced treatment options. Pranjali's role as project manager is to provide technical direction, review data and deliverables, and participate in decision-making with leaders and key stakeholders.

Project Manager / Indirect Potable Reuse Source Water Characterization / *Reedy Creek Improvement District, Florida*

This project includes the characterization of source water to a future advanced water purification facility by quantifying the concentration of regulated and unregulated contaminants and pathogens. Project effort includes being on the forefront of emerging chemicals in the industry and monitoring regulatory developments. In her role, Pranjali provides technical direction, reviewing project deliverables, and managing project resources.



WATER TREATMENT/ REUSE

Chris Reinbold, PE

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Team Member Overview

Chris has 21 years of experience that includes study, design, permitting, and construction administration services for treatment plants, pumping stations, pipelines, and chemical systems. His continual focus for clients is to seek additional value, savings, or other operational enhancements on each project.

EXPERIENCE
21 years

EDUCATION
Master of Civil Engineering, North Carolina State University

BS Civil Engineering, University of North Carolina at Charlotte

REGISTRATION/LICENSES
Professional Engineer, FL No. 68639

PROFESSIONAL AFFILIATIONS
American Water Works Association

Relevant Project Experience

Project Manager / Water Treatment Plant Evaluation / *City of Riviera Beach Utility District (CRBUD), Florida*

This project includes the evaluation of the process systems at the CRBUD Water Treatment Plant to determine the expected performance of each process system. The evaluation will identify expected performance of each process system in terms of intended function and capacity along with a review of meeting established permitted regulatory criteria. This effort included review of existing documents, performing process calculations, interviews with operations staff, and review of application permits and regulatory criteria. Also included was the evaluation of the existing treatment system hydraulics. Carollo will also provide training seminars to CRBUD staff based upon topics identified during the above evaluation.

Project Manager / Sawgrass Water Treatment Plant membrane replacement, acid modifications, ion exchange (IX), and other improvements / *City of Sunrise, Florida*

This project includes two bid packages. The first is to replace the nanofiltration membrane elements for the existing 24-mgd treatment plant and demolish and replace the sulfuric acid pumps. The second is to install an oxidation, pre-filtration, and IX system to treat surficial aquifer water for iron, control color, and reduce organics. This treatment train is separate and parallel to the existing membrane filtration train. Following degasification of the membrane permeate, the IX treated water will be blended with it to optimize finished water hardness and alkalinity. The City will experience cost savings (through power and chemical reduction), reduced distribution system maintenance, increased water use, and improved overall finished water quality.

Project Manager / Southwest Water Treatment Plant Ion Exchange (IX) & Improvements / *City of Sunrise, Florida*

This project includes addition of a 2-mgd fixed bed vessel IX system for color control and organics reduction at an existing lime softening plant. Other improvements include the replacement of well 2, replacement of the diesel engine backup generator and associated fuel storage tank, salt storage for IX regeneration, waste equalization, demolition of the existing lime silo for construction of a new larger silo to install two Owner furnished slakers, and associated electrical and I&C features. The addition of the IX system will allow the City to improve finished water quality

Chris Reinbold (Cont.)

as well as meet regulatory requirements associated with disinfection byproducts while implementing a new disinfection system to meet the Groundwater Rule.

Project Engineer / Caloosahatchee River (C-43) West Basin Reservoir / *South Florida Water Management District Florida*

This project is composed of a 170,000 ac-ft above-ground reservoir including internal and external embankments, internal control and outflow water control structures, canals, and two pump stations (S-470 and S-476). The pumping design capacity of the S-470 is 1,500 cfs while the design capacity for the S-476 is 195 cfs. This project is being designed and constructed with four separate bid packages.

Project Manager / Springtree Water Treatment Plant Phase II Improvements & Rehabilitation / *City of Sunrise, Florida*

This project included renewal and upgrades to the existing four (4) 6-mgd each solids contact clarifiers, additional of raw water aerators, replacement of the south lime silo, concrete structure rehabilitation for the filters and flume, demolition of the existing east filters and transfer pump, addition of a new transfer pump station rated for 12-mgd, addition of a water stabilization (CO2) system, extension of washwater return piping to connect to the two west softeners, and replacement of the existing rotary drum vacuum filter belts and appurtenances for lime sludge dewatering. This project was designed and is being constructed in two separate bid packages.

Project Manager During Study/Design And Construction Manager During Construction / Water Treatment Plant No. 2 Filter Replacement / *Palm Beach County Water Utilities Department, Florida*

This project includes a new filter structure with dual media filters rated for an initial capacity of 16.4 mgd and designed to be high rated to an ultimate capacity of 25 mgd. The filter structure also includes a clearwell, transfer and backwash pumps, air scour blowers, electrical room, and chemical feed connections. The new filters replace existing steel vessel filters at each lime softening train that are to be demolished along with a 1.0 million gallon storage tank. Other items include site grading, drainage, paving, and yard piping to support the new facilities with demolition of the old.

Technical Advisor / Water Master Plan Update / *Palm Beach County Water Utilities Department (PBCWUD), Florida*

Project included development of a new water master plan for PBCWUD to recommend capital improvements to meet the County's 20-year water needs. Demand projections developed by PBCWUD were reviewed and confirmed, and updated peaking factors were developed based on historical production and SCADA data. Carollo assisted the County in updating its Infowater hydraulic model and developed and facilitated a calibration program. Based on modeling results and evaluation of PBCWUD treatment and storage facilities, a 20-year Capital Improvements Plan (CIP) was developed to sustain the County's future water demands.

Design Manager / Sawgrass 3-mgd Reverse Osmosis Water Treatment Plant / *City of Sunrise, Florida*

This project included the preparation of a procurement bid package and the general construction bid package, including 3 mgd of reverse osmosis treatment at the existing 18-mgd Sawgrass Water Treatment Plant. Included in the reverse osmosis system design were cartridge filters, two-stage reverse osmosis treatment, degasification, air quality control scrubbers, clean-in-place system, and chemical systems. Also included in this project was the uprating of the existing nanofiltration treatment system from 18 to 24 mgd along with other renewal and improvement items.

Design Manager / Springtree Water Treatment Plant Sodium Hypochlorite Tank Replacement, Reverse Osmosis Water Treatment Plant, and Controls Building and High Service Pump "A" / *City of Sunrise, Florida*

The project was executed as three separate bid packages. The first was to replace four 15,000-gallon each sodium hypochlorite tanks on an accelerated schedule. The second was to prepare a procurement bid package and then general construction bid package including the design of 3 mgd of reverse osmosis treatment, with 1.5 mgd to be procured and installed in the first phase, at the existing 24-mgd Springtree Water Treatment Plant. The reverse osmosis design included conversion of an ASR well to a Floridan aquifer production well, sand strainers, cartridge filters, two-stage reverse osmosis treatment, degasification, air quality control scrubbers, clean-in-place system, and chemical systems. The third bid package included the addition of a new plant controls building, new 12-mgd high service pumping station, and miscellaneous renewal and improvements to the existing softeners.



CONSTRUCTION SERVICES

Douglas Dumont, CCM

Team Member Overview

Doug is a principal construction manager with 30 years of experience as a construction inspector, construction representative, deputy facility manager, construction manager, and senior project manager. He has a proven history of continually maintaining safe and health practices both personally and promoting within team. Mr. Dumont manages and coordinates all project site construction activities, in both the public and private sectors, including review and processing of technical and administrative submittals and RFIs; review and verification of contractor pay applications; development of change orders and cost estimates; chairing weekly and monthly construction meetings. He has significant experience in all forms of reporting, including, daily, weekly, and monthly reports, creation of photo logs, meeting agendas, and meeting minutes. Additional skills include experience with structural upgrades, electrical upgrades, and numerous water and wastewater plant construction, startup, and commissioning.

EXPERIENCE
30 years

EDUCATION
AAS Civil Engineering Technology, State University of New York at Canton

CERTIFICATIONS
Certified Construction Manager

PROFESSIONAL AFFILIATIONS
Construction Management Association of America

Relevant Project Experience

Lead Senior Construction Manager / Ocean Outfall Legislation Program, South District Wastewater Treatment Plant / *Miami-Dade Water and Sewer Department, Florida*

Responsible for management of construction managers and inspectors on six active projects totaling $530 million in total. The projects include existing wastewater treatment trains rehabilitation and new construction which include electrical distribution buildings (three), oxygenation trains (two), clarifier (one), headworks facility (one) and chlorine contact tanks (two). He also directly manages the construction of a new headworks facility (one), oxygenation trains (two), electrical substation building, and associated conduit and yard piping for this specific project.

Senior Construction Manager / Santa Clara Regional Wastewater / *City of San Jose, California*

Served as senior construction manager on the Facility Blower Improvements project, taking over a year into the project when previous CM team from a different firm was removed. When assumed duties on this project it was 11 months behind schedule which we recouped through accelerating the Contractor.

Assistant Project Manager/ Valencia Advanced Water Treatment Plant / *City of Valencia, California*

Primary responsibility of being liaison between lead project manager and superintendent and field crew for this $84 million project. Additional responsibilities included risk management, cost project controls, document preparation (e.g., submittals, PO log, daily activity reports, etc.), scheduling, and meetings with client, engineering firm, and mechanical suppliers. Supervision of nine direct reports that included site superintendent, field engineers, and scheduler.

Douglas Dumont (Cont.)

Senior Project Manager / Thermal Desorption Unit and Oil Recovery Unit, Hazardous Waste Landfill / *Lake Charles Waste Management, Louisiana*

Responsible for risk management and cost project controls for this $31 million project. In the role as owner, managed multiple engineering firms and Contractors from design phase through startup, testing and commissioning.

Senior Project Manager/District Manager / Duwamish Reload Facility / *Waste Management Seattle, Washington*

The $24 million reload facility, on the lower Duwamish River, is a transload facility which offloaded barges containing contaminated dredge sediment and contaminated upland soil from the Duwamish River and other sites in the Pacific Northwest, including Alaska and Canada. Accepted materials arrive at the facility from commercially operated barges, as well as trucks, and is transferred to rail or trucks for transport offsite. Responsible for construction activities, risk management, cost project controls, document preparation, scheduling, and meetings with agencies, sales group, and customers; ensured that the project was following all government regulations by verifying inspections and reporting were being completed; implemented the safety program for the site, and confirmed employees were properly trained.

Senior Project Manager/Interim Project Manager / Ash Removal / *Duke Energy*

Served as interim project manager when previous manager resigned. Responsible for successful management and transition of a $70 million ash removal project, which involved trans-loading 1.2 million tons of coal ash on client's site to rail cars and unloading at a waste management facility. Project included $3 million for rail and site upgrades. As senior project manager, responsible for risk management, cost project controls, change order development, document preparation (e.g., submittals, RFIs, daily activity reports, etc.), scheduling, and conducting client meetings; ensured that the project was following all government regulations by verifying inspections and reporting were being completed; implemented the safety program for the site, and confirmed employees were properly trained.

Senior Project Manager / Toxic Substance Control Act (TSCA) Geo-Tube Solidification and Transportation and Disposal (T&D) / *Alcoa, Lake Charles, Louisiana*

The project included the solidification and T&D of approximately 10,000 tons of soil contaminated with Polychlorinated Biphenyl (PCBs) and/or Polynuclear Aromatic Hydrocarbons (PAHs). Solidified TSCA material was transported off-site for disposal at a TSCA landfill and solidified NTSCA material was transported off-site for disposal to a Class II Landfill. TSCA containment pad was demolished, and area restored, NTSCA containment was restored intact for future use. Responsible for risk management, cost project controls, change order development, document preparation (e.g., submittals, RFIs, daily activity reports, etc.), scheduling, and conducting client meetings; ensured that the project was following all government regulations by verifying inspections and reporting were being completed; implemented the safety program for the site, and ensured employees were properly trained.

Construction Manager / OU-1 Remedial Action Project / *FMC Corporation, Pocatello, Idaho*

Served as the primary point of contact between the site and client. Conducted weekly meetings with the site contractor and reviewed contractor invoices, submittals, and schedule tracking. Adhered to the design documents and coordination of construction documentation. Assisted the clients with pricing and negotiating changes to contractor's scope. Also documented and executed changes in scope of work; anticipated problems and worked with client, contractor, and engineers to identify and implement corrective actions.

Construction Manager / Avtex GLTP. for an onsite Groundwater Treatment Plant and Associated Groundwater Extraction System / *FMC Corporation, Front Royal, Virginia*

Conducted weekly meetings with the site contractor, reviewed contractor invoices, submittals, and schedule tracking. Adhered to the design documents and coordination of construction documentation. Aided with overall site wide closure schedule and coordination of activities at the site.



OPERATIONS

Leo Pou

Team Member Overview

Leo has 40 years of experience in the water and wastewater industry, including asset management, conceptual design planning, operational/constructability reviews, process troubleshooting, risk management plans, peak flow monitoring, personnel management, commissioning and start-up, Standard Operating Procedures (SOP) development and implementation, and staff training. Leo was previously employed by the Miami-Dade Water & Sewer Department in Florida for 34 years, where he played a significant role as an operations specialist.

EXPERIENCE
40 years

EDUCATION
AA Environmental Engineering, Miami Dade College, Florida

CERTIFICATIONS
Class A Wastewater License

HAZMAT Technician Certified

Confined Space Certified

Relevant Project Experience

Operations Assistance / Central District and South District Wastewater Treatment Plants (WWTPs), Thickening and Dewatering Buildings /
Miami-Dade County Water and Sewer Department (WASD), Florida

This fast-track, $220 million design-build project consists of the construction of sludge thickening and dewatering buildings at both plants to provide sludge thickening systems, digested sludge dewatering systems, and other engineering features. Training covers thickening and dewatering centrifuges, related equipment, solids storage, chemical feed systems, and ancillary components.

Operations Assistance / Southeast Wastewater Treatment Plant (WWTP) Expansion CEI Services / *Pasco County Utilities, Florida*

This project consists of engineering services during construction and on-site resident project representative and construction inspection services for the Southeast WWTP expansion from 3- to 6-mgd AADF, plus several thousand linear feet of force main replacement and addition outside the fence.

Startup and Commissioning Support / AWPF Wastewater Treatment Plant / *City of Valencia, California*

Provided support, troubleshooting, and optimization of the membrane and reverse osmosis systems. Worked with staff during performance testing and developed operating parameters.

Advisory Panelist / Hyperion Wastewater Treatment Plant / *City of Los Angeles, California*

Provided support to improve process control and operations of the facility. Created training tools to develop staff. Troubleshot and optimized solids handling. Improved resiliency by developing a proactive tank cleaning and maintenance program. Mentored and coached staff.

Leo Pou (Cont.)

Startup, Commissioning, and Operations Support / NEWPP Thickening and Dewatering Centrifuge Systems / *City of Houston, Texas*

Worked with contractors to optimize centrifuges and polymer dosing. Assisted with the development of SOPs and reviewed O&M manuals submittals for clients.

Operations Treatment Plant Specialist / Baxter Diagnostics / *Miami, Florida*

Operated and maintained three reverse osmosis (RO) plants, which produced reagent 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.

Chief Plant Operator / South District Wastewater Treatment Plant Conversion to High Level Disinfection (HLD) / *Miami-Dade Water and Sewer Department (WASD), Miami, Florida*

Project consisted of the conversion of this 143-mgd secondary treatment to a tertiary treatment/high level disinfection facility. Additional treatment was constructed to achieve 100% reuse quality effluent and peak flow capacity was increased to 285 mgd. Leo served as operations liaison for HLD construction, which included startup, commissioning, and training. He reviewed engineering drawings and manuals to develop standard operating procedures, trained all operations staff on how to properly operate equipment and treatment systems. He worked with EAMS personnel acquiring and reviewing asset information used for asset management, assisted with implementation of preventive and predictive schedules, and also worked with engineers and consultants to help develop projects from concept through placing the system into operation.

Assistant Division Director / Wastewater Division / *Miami-Dade Water and Sewer Department (WASD), Miami, Florida*

Oversaw 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.

Chief Plant Operator / North District Wastewater Treatment Plant Conversion to High Level Disinfection (HLD) / *Miami-Dade Water and Sewer Department (WASD), Miami, Florida*

Project consisted of the conversion of this 120-mgd secondary treatment to a tertiary treatment/high level disinfection facility. Leo served as operations liaison for HLD construction, which included startup, commissioning, and training. He reviewed engineering drawings and manuals to develop standard operating procedures, trained all operations staff on how to properly operate equipment and treatment systems. He worked with EAMS personnel acquiring and reviewing asset information used for asset management, assisted with implementation of preventive and predictive schedules, and also worked with engineers and consultants to help develop projects from concept through placing the system into operation.

André Capi

PRESIDENT – OWNER DK ARCHITECTS

André received his Master of Architecture degree from Tulane University, New Orleans. With more than 35 years of experience and excellent communication skills, André leads and coordinates planning, design, and design-build projects. He provides complete project services, overseeing all aspects of the architecture firm from evaluation through design, quality control, and construction of commercial, industrial, historical, and residential projects. Permitting is facilitated by his extensive knowledge of building codes, planning and zoning ordinances, and approval processes nationwide. In addition to being LEED Certified and leading the company's environmental and sustainable initiatives, Mr. Capi is a member of the Florida Trust Historical Preservation and leads the company's restoration, renovation, and adaptive reuse efforts.

EDUCATION

Master of Architecture
Tulane University
School of Architecture
New Orleans, LA
1988

Cardinal Gibbons High School
Alumnus
Ft. Lauderdale, FL

PROFESSIONAL MEMBERSHIPS

- Florida Trust for Historic Preservation
- US Green Building Council
- American Institute of Architects
- LEED Accredited

CONTACT

- acapi@dk-group.com
- www.dk-architects.net
- 954.941.3329

QUALIFICATIONS

- LEED AP Certified
- Extensive knowledge of building codes, Planning and Zoning ordinances and permit processes nationwide
- Experienced in site evaluation, due diligence reports, site feasibility studies for ground-up construction, remodels and alterations, site planning
- Business acumen and management skills consist of contract administration, billing, scheduling, and time tracking

RELEVANT EXPERIENCE

- Briny Ave. Streetscaping & Undergrounding | Pompano Beach
- Ali Cultural Center & Black Box Theater | Pompano Beach, FL
- Skolnick Community Center | Pompano Beach, FL

André Capi

PRESIDENT-OWNER DK ARCHITECTS

PROFESSIONAL EXPERIENCE

1990 - Present
Design Kollaborative Architects Planners, Inc.
Pompano Beach, FL
Director

- Various streetscaping, master planning, feasibility studies, design, historic renovations, and construction administration for municipal projects.

PHILANTHROPIC AFFILIATIONS

PACE Broward Pace Setter, Junior Achievement – Construction Committee
Proud contributor to: A Child Is Missing
American Cancer Society
American Heart Association
Boys and Girls Club of Broward and Palm Beach Counties
Broward Outreach Center
Children's Diagnostic and Treatment Center
Cystic Fibrosis Foundation
Humane Society of Broward County
National Multiple Sclerosis Society
Jessica June Cancer Foundation
Kids in Distress
Leukemia and Lymphoma Society
Red Cross
Riverwalk Trust
Young Professionals for Covenant House



JENNIFER C. MALIN, P.S.M.
SURVEY PROJECT MANAGER

EDUCATION

Bachelor of Science, Surveying and Mapping, University of Florida, 2003

CERTIFICATIONS

- State of Florida, Surveying and Mapping, LS #6667
- Qualified Stormwater Management Inspector

AFFILIATIONS & AWARDS

- Florida Surveying and Mapping Society member since 2005 (No. 8481)

Mrs. Malin is a Registered Land Surveyor in the State of Florida with over 19 years of experience in the field. She has been working at Engenuity Group, Inc. since 2003 and has a superior understanding of surveying and mapping concerns in South Florida. She is a seasoned AutoCAD Drafter who always produces the highest quality deliverables in a timely manner. Ms. Malin is the Director of our survey department, overseeing every aspect of daily operations.

EXPERIENCE

City of Pompano Beach

- Water Treatment Plant Improvements Topographic Survey & SUE Services

Seacoast Utility Authority

- Topographic & Tree Survey for Donald Ross Rd. Low Pressure Forcemain Extension
- Topographic Survey & Sketch & Descriptions for Avenir/Western Communities Pipeline Extension
- Topographic Survey for Juno Road Forcemain Improvements
- Topographic Survey for Lake Park 12" Forcemain Improvements
- Topographic & Tree Survey & SUE Services for Eastpointe Blvd. Forcemain Research

City of Sunrise

- Topographic Survey of Sunrise Lakes Dr traffic circle
- 6691, 6561, & 6665-6671 Sunset Strip Boundary Survey
- 1220 NW 61st Avenue Boundary Survey
- Lift Station 210 Sketch & Descriptions
- Celebrate Sunrise Entry Features Topographic Survey
- Citywide Boat Ramp Replacements Program Phase III & IV Topographic Surveys
- NW 29th St. Manor Neighborhood Traffic Calming Topographic Survey
- Topographic Survey & Staking for Flamingo/Artesia Linear Park
- Topographic Surveys for Lift Stations 101, 102, 106, 109, 110, 111, 117, 118, & 154
- Topographic & Tree Survey, Title Search & SUE Services for Shenandoah Community Forcemain Relocation
- Boundary, Topographic, & Tree Survey for 3003 N. University Drive
- 60 Weston Road Marquee Signs Survey
- 84th Avenue & Springtree Drive Manholes Topographic Survey & SUE Services
- Flamingo Road Public Art Display Topographic & Tree Survey & SUE/GPR Services
- Welleby Park Record Drawing Survey
- Gold Key Villas Sketch & Descriptions & Easement Locations (12)
- Sunrise Lakes Blvd. Bus Stops Field Locations & Sketch & Descriptions

City of Delray Beach

- Island Drive bridge rehabilitation Topographic Survey
- 196 NW 8th Ave. Boundary Survey
- Atlantic Dunes Park Topographic & Boundary Survey

Hugo E. Soto, P.E.
Principal Geotechnical Engineer



EDUCATION
Master of Science in Geotechnical Engineering, Utah State University, 1980

Bachelor of Science in Civil Engineering, Utah State University, 1979

REGISTRATIONS
Professional Engineer, #36440, Florida, 1985

AFFILIATIONS
American Society of Civil Engineers

Cuban American Association of Civil Engineers

YEARS OF EXPERIENCE: 44

YEARS AT FIRM: 17

OFFICE LOCATION:
Miami Lakes, FL

PROFESSIONAL EXPERIENCE

Hugo is a principal and Manager of Regional Geotechnical Services for Terracon's Fort Lauderdale and Miami offices. He is also an authorized project reviewer (APR) for the firm's Florida Division, providing oversight and guidance on project quality, delivery, and other aspects of each project, including safety, schedule, budget, and meeting Terracon and client expectations.

Hugo has more than 40 years of expertise in providing geotechnical engineering, construction materials testing, inspection, and consulting services. Geotechnical services include geotechnical design, analyses, and recommendations related to the design and construction of foundations, as well as geotechnical exploration programs. He is well-versed in performing analysis and evaluation of field and laboratory data, in-situ soil testing, in-place permeability testing, and geophysical explorations.

Hugo's extensive experience includes: evaluating bearing capacity and settlement for different types of shallow and deep foundation systems; analysis/evaluation of retaining walls, sheet piling systems, slope stability analysis of conventional and reinforced embankments, evaluation of drilled shafts, auger cast piles and driven piles; evaluation, design, and implementation of subsurface improvement programs (i.e. application of dynamic compaction, preloading, compaction grouting, and vibro-compaction techniques); and conducting studies including monitoring vibrations of structures during construction.

PROJECT EXPERIENCE

Multi-year Capital Improvement Plan - Miami-Dade Water and Sewer Department (WASD) Professional Services Agreement (PSA) – Various Locations Countywide, Miami-Dade County, FL
Principal/Contract Manager. Terracon was re-selected by WASD in 2020 for a PSA to provide geotechnical services, special inspections, structural assessments, soils, foundations and materials testing services related to the improvement, upgrades and expansions of water and wastewater treatment plants, pump stations, collection, distribution and transmission piping, and all related facilities necessary to ensure QC/QA for WASD's capital improvement projects. As Contract/Project Manager representing the Terracon Team, Mr. Soto provides day-to-day project-level interactions and services to WASD. He oversees the contract and assigns projects to the appropriate services lead, who is responsible for coordinating and reporting applicable work. Mr. Soto oversees day-to-day task assignments and as-needed communication with WASD, negotiates/administers project tasks, and provides project overview as necessary. Additionally, he monitors the performance of task assignments to ensure satisfactory performance of the technical aspects, schedule, budget, and implementation of QA plans.

Prospect Lake Clean Water Center – Fort Lauderdale, FL
Principal Engineer/QA/QC Review. The planned project will include the construction of a water treatment facility consisting of a nano filter building, pumps, racks, and other water treatment plant (WTP) structures and equipment. Terracon performed subsurface exploration (field sampling, drilling of test borings, and installation of field piezometers) and laboratory testing. The firm provided geotechnical data relative to subsurface soil conditions, groundwater conditions, laboratory test results, electrical resistivity, and a thermos resistivity report.

Hugo E. Soto, P.E.
Principal Geotechnical Engineer



EDUCATION
Master of Science in Geotechnical Engineering, Utah State University, 1980

Bachelor of Science in Civil Engineering, Utah State University, 1979

REGISTRATIONS
Professional Engineer, #36440, Florida, 1985

AFFILIATIONS
American Society of Civil Engineers

Cuban American Association of Civil Engineers

YEARS OF EXPERIENCE: 44

YEARS AT FIRM: 17

OFFICE LOCATION:
Miami Lakes, FL

PROFESSIONAL EXPERIENCE

Hugo is a principal and Manager of Regional Geotechnical Services for Terracon's Fort Lauderdale and Miami offices. He is also an authorized project reviewer (APR) for the firm's Florida Division, providing oversight and guidance on project quality, delivery, and other aspects of each project, including safety, schedule, budget, and meeting Terracon and client expectations.

Hugo has more than 40 years of expertise in providing geotechnical engineering, construction materials testing, inspection, and consulting services. Geotechnical services include geotechnical design, analyses, and recommendations related to the design and construction of foundations, as well as geotechnical exploration programs. He is well-versed in performing analysis and evaluation of field and laboratory data, in-situ soil testing, in-place permeability testing, and geophysical explorations.

Hugo's extensive experience includes: evaluating bearing capacity and settlement for different types of shallow and deep foundation systems; analysis/evaluation of retaining walls, sheet piling systems, slope stability analysis of conventional and reinforced embankments, evaluation of drilled shafts, auger cast piles and driven piles; evaluation, design, and implementation of subsurface improvement programs (i.e. application of dynamic compaction, preloading, compaction grouting, and vibro-compaction techniques); and conducting studies including monitoring vibrations of structures during construction.

PROJECT EXPERIENCE

Multi-year Capital Improvement Plan - Miami-Dade Water and Sewer Department (WASD) Professional Services Agreement (PSA) – Various Locations Countywide, Miami-Dade County, FL
Principal/Contract Manager. Terracon was re-selected by WASD in 2020 for a PSA to provide geotechnical services, special inspections, structural assessments, soils, foundations and materials testing services related to the improvement, upgrades and expansions of water and wastewater treatment plants, pump stations, collection, distribution and transmission piping, and all related facilities necessary to ensure QC/QA for WASD's capital improvement projects. As Contract/Project Manager representing the Terracon Team, Mr. Soto provides day-to-day project-level interactions and services to WASD. He oversees the contract and assigns projects to the appropriate services lead, who is responsible for coordinating and reporting applicable work. Mr. Soto oversees day-to-day task assignments and as-needed communication with WASD, negotiates/administers project tasks, and provides project overview as necessary. Additionally, he monitors the performance of task assignments to ensure satisfactory performance of the technical aspects, schedule, budget, and implementation of QA plans.

Prospect Lake Clean Water Center – Fort Lauderdale, FL
Principal Engineer/QA/QC Review. The planned project will include the construction of a water treatment facility consisting of a nano filter building, pumps, racks, and other water treatment plant (WTP) structures and equipment. Terracon performed subsurface exploration (field sampling, drilling of test borings, and installation of field piezometers) and laboratory testing. The firm provided geotechnical data relative to subsurface soil conditions, groundwater conditions, laboratory test results, electrical resistivity, and a thermos resistivity report.

Terracon

Hugo E. Soto, P.E. (continued)

Pump Station 0124 Upgrade - Doral, FL
Principal Engineer/QA/QC Review. WASD created the Pump Station Improvement Program (PSIP) to upgrade its Wastewater Collection and Transmission System, which includes pump stations, force mains, and gravity lines, with an investment of $215 million. Terracon provided construction materials testing and inspection services for Pump Station 0124 as part of the continuing services contract the firm holds with WASD. The scope of work included soil/limerock, Proctors, densities, concrete testing, and engineering services.

City of Cooper City Water Treatment Plant (WTP), Water Storage Tank Replacement – Cooper City, FL
Principal Engineer/QA/QC Review. Geotechnical engineering services were performed for the proposed Cooper City WTP Water Storage Tank replacement project located at 11791 SW 49th Street. Test borings were advanced to depths of approximately 60 to 65 feet below ground surface along the perimeter of the existing water storage tank. The purpose of these services is to provide information and geotechnical engineering recommendations relative to subsurface soil/rock conditions, groundwater conditions, foundation design and construction, and earthwork.

City of Coconut Creek's Hilton Road Water Storage and Repump Facility - Coconut Creek, FL
Principal Engineer/QA/QC Review. The project site is located at 4802 Hilton Road in the City of Coconut Creek (Broward County), Florida. Proposed improvements were planned for the construction of a 1,427-SF pump building, two concrete pads with single-story equipment shelter buildings, and a concrete pad with a power generator featuring a double-wall aboveground fuel storage tank. Terracon performed subsurface exploration that involved the advancement of borings to a depth of approximately 20 feet below the existing ground surface within the general vicinity of the project site. The purpose of these services was to provide information and geotechnical engineering recommendations relative to subsurface soil/rock conditions, groundwater conditions, foundation design and construction, floor slab design and construction, and earthwork.

Florida Keys Aqueduct Authority Sigsbee Pump Station at the Naval Air Station (NAS) - Key West, FL
Principal/QA/QC Review. The Sigsbee wastewater lift station replacement included the proposed construction of a pump station wet well and an elevated platform. Subsurface exploration (advancement of test borings). Laboratory testing and geotechnical engineering services were performed by Terracon. The firm provided information and geotechnical engineering recommendations relative to subsurface soil and groundwater conditions, site preparation and earthwork, foundation design and construction, excavation considerations, lateral earth pressures, and hydraulic conductivity value (k-value).

Sea Level Rise Pilot Project – Key Largo, FL
Principal Engineer/QA/QC Review. Hugo provided senior-level supervision and review of Terracon's deliverables to confirm adherence to Terracon standards and regulatory requirements. The Twin Lakes Subdivision in Key Largo is redesigning some of its infrastructure to address the concern with Sea-level rise. The project comprised raising the grade of the existing roadway along Shaw Drive, Crane Street, and Adams Drive. It is also proposed to construct a new pump station to address drainage issues in the area. Terracon performed geotechnical exploration, laboratory testing and provided geotechnical recommendations required to raise the grade of the existing roadway. Terracon also provided geotechnical recommendations for the construction of the new pump station. Recommendations for miscellaneous structures, such as gravity walls, were also addressed.

City of Dania Beach DCP for Southeast Stormwater Improvements – Dania Beach, FL
Principal Engineer/Project Manager/QA/QC Review. Hugo provided senior-level supervision and review of Terracon's deliverables to confirm adherence to Terracon standards and regulatory requirements. This project consists of stormwater drainage improvements within the area bound from west to east by Federal Highway and SE 5th Avenue and from the south to the north from SE 10th Street to SE 2nd Street. The proposed structures included two pump stations and an exfiltration trench. Terracon performed subsurface exploration and geotechnical engineering that included the advancement of test borings, exfiltration tests, pavement cores, and double-ring infiltrometer (DRI tests). The samples obtained in the field were laboratory tested. The firm provided information and geotechnical engineering recommendations relative to subsurface soil (and rock) conditions, groundwater conditions, pavement core information, exfiltration test results, and recommendations for the proposed pump stations.

Terracon

Office Locations



Office Locations

Demonstrated Accessibility

The best of both worlds—local experts supported by national bench strength.

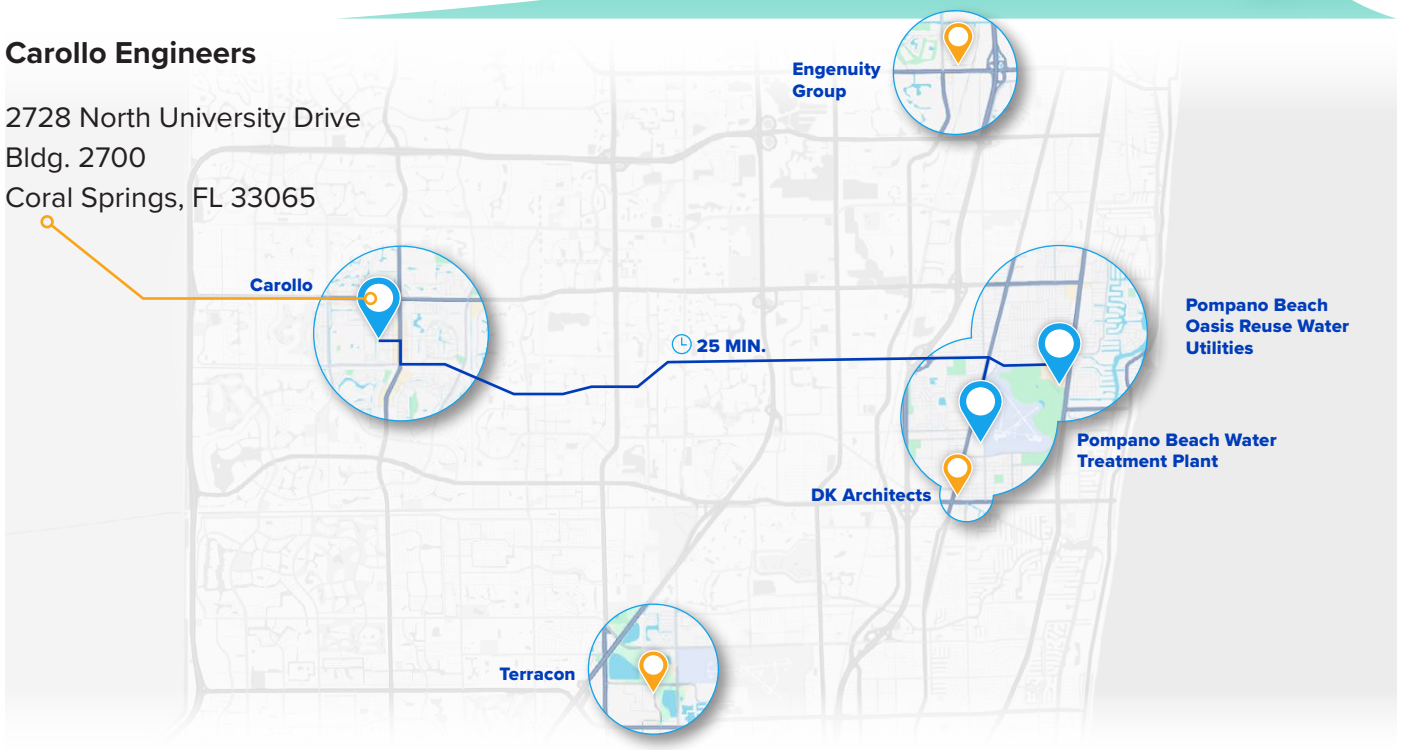


Where Will Carollo's Work Be Performed? Carollo maintains several offices across Florida to provide local expertise and responsive service. Our work will be led by our Broward office and primarily supported by our south Florida staff.

Carollo's Broward County office currently has 12 professional staff and 1 administrative staff member, for a total of 13 staff members. This local team provides responsive service and expertise in water and reuse projects for clients throughout the region.

Carollo Engineers

2728 North University Drive
Bldg. 2700
Coral Springs, FL 33065



DK Architects

200 NE 1st Ave
Suite #115
Pompano Beach, FL 33060

Terracon Consultants

3347 NW 55th Street
Fort Lauderdale, FL 33309

Engenuity Group

300 Lock Road, Suite 302
Deerfield Beach, FL 33442

Litigation



Litigation

Carollo's litigation history reflects a commitment to resolving disputes professionally and maintaining a strong reputation for quality and reliability. None of the pending or past litigation has affected the firm's ability to perform services for clients.

In the last five (5) years, Carollo Engineers, Inc., has been involved in the following litigation matters:

- 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 was settled in mediation.
- 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.
- In 2024, Carollo, the construction manager, and the construction contractor were the subject of a lawsuit filed by a client related to onsite inspection work performed by Carollo's subconsultant during construction of an interceptor sewer replacement project. The complaint alleges breach of contract and professional negligence. Carollo denies responsibility for any of the claims.

City Forms



City Forms

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

RLI 25-072 (number), Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA) (RLI name)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the RLI. I have read the RLI and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) Liz Fujikawa, PE, BCEE, LEED AP Title Senior Client Service Manager

Company (Legal Registered) Carollo Engineers, Inc.

Federal Tax Identification Number 86-0899222

Address 2728 North University Boulevard, Building 2700

City/State/Zip Coral Springs, FL 33065

Telephone No. 954-837-0030 Fax No. N/A

Email Address efujikawa@carollo.com

Bidder Company Name Carollo Engineers, Inc.

Qualifications Of Bidders

To demonstrate qualifications to perform the work, and to be considered for award, each bidder shall submit at least three (3) business customer references. Provide information for business customers for whom you have performed work of this nature which you list as references, excluding the City of Pompano Beach. (Use an attachment if necessary.)

1. Name and address of customer: Broward County

   2555 West Copans Road, Pompano Beach, FL 33069

   Contact person name, telephone number and email address: Mike Saltzman

   954-831-0736, lsaltzman@broward.org

   Description of services provided and date(s) of service: 2019-2024

   Provided planning, design, permitting & construction-phase services, including upgrades

   and construction of pumping stations, storage tanks and chemical feed systems.

2. Name and address of customer: City of Boynton Beach

   100 East Boynton Beach Boulevard, Boynton Beach, FL 33435

   Contact person name, telephone number and email address: Keith Webber

   561-742-6400, webberk@bbfl.us

   Description of services provided and date(s) of service: 2018 - Ongoing. Provided water and

   wastewater treatment plant improvements, hydraulic modeling, permitting,

   asset management, utility infrastructure planning and design of system expansions.

3. Name and address of customer: Sarasota County

   1660 Ringling Boulevard, Sarasota, FL 34236

   Contact person name, telephone number and email address: Greg Rouse

   941-861-0548, grouse@scgov.net

   Description of services provided and date(s) of service: 2006 - Ongoing

   Provided comprehensive utility system planning, studies, evaluations, hydraulic modeling,

   strategic business planning, permit renewals, SCADA, regulatory compliance and construction oversig

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

__X__ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

__X__ My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

_____ My firm does not qualify as a Tier 2 Vendor.

I certify that the above information is true to the best of my knowledge.

10/1/2025
(Date)

Carollo Engineers, Inc.
(Name of Firm)

BY: _____
(Name)

Liz Fujikawa, PE, BCEE, LEED AP

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829

VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Receipt #: 315-581
Business Name: CAROLLO ENGINEERS INC **Business Type:** ENGINEER (ENGINEER)

Owner Name: CAROLLO ENGINEERS INC **Business Opened:** 01/01/2005
Business Location: 2728 N UNIVERSITY DR BLDG 270(**State/County/Cert/Reg:**
CORAL SPRINGS **Exemption Code:**
Business Phone: 954-837-0030

Rooms	Seats	Employees	Machines	Professionals
		2		

For Vending Business Only
Number of Machines: **Vending Type:**

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt Fee 30.00
Packing/Processing/Canning Employees 0.00

State of Florida
Departmentof State

I certify from therecordsof this office thatCAROLLO ENGINEERS, INC. is a Delaware corporationauthorizedto transactbusinessin the State of Florida, qualified on May 25, 2000.

The documentnumberof this corporationis F00000003055.

I furthercertify thatsaid corporationhas paid all fees duethis office through December31, 2025, thatits mostrecentannualreport/uniformbusinessreport was filed on April 18, 2025, andthatits statusis active.

I furthercertify thatsaid corporationhas notfiled a Certificate of Withdrawal.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-seconddday of April, 2025

Secretary of State

Tracking Number: 1185603746CU

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

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

Ron DeSantis, Governor Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

FUJIKAWA, ELIZABETH G.
14847 DRAFT HORSE LANE
WELLINGTON FL 33414

LICENSE NUMBER: PE72860
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

NGUYEN, TUNG THANH
8622 PROSPECT LANE
PARKLAND FL 33076

LICENSE NUMBER: PE85095
EXPIRATION DATE: FEBRUARY 28, 2027
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STATE OF FLORIDA
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BOARD OF PROFESSIONAL ENGINEERS

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ECHAVARRIA GREGORY, MARIA ANGELICA
5893 NW 69TH WAY
PARKLAND FL 33067

LICENSE NUMBER: PE75583
EXPIRATION DATE: FEBRUARY 28, 2027
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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	02/28/2027

Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

GARCIA, DANIEL I.
591 SW 515T CT
MIAMI FL 33134

LICENSE NUMBER: PE62299
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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CUSHING, ROBERT STANLEY
301 N. CATTLEMEN ROAD
SUITE 302
SARASOTA FL 34232

LICENSE NUMBER: PE57828
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

HART, VINCENT STAFFORD
1113 ISOBEL RESERVE LANE
TAMPA FL 33613

LICENSE NUMBER: PE96251
EXPIRATION DATE: FEBRUARY 28, 2025
Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

MUNCE, LYLE D.
2056 VISTA PARKWAY
SUITE 150
WEST PALM BEACH FL 33411

LICENSE NUMBER: PE55097
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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SEACORD, THOMAS F.
12592 WEST EXPLORER DR., STE. 200
BOISE ID 83713

LICENSE NUMBER: PE58287
EXPIRATION DATE: FEBRUARY 28, 2027
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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

GREEN, CHAD
14755 PRESTON ROAD
SUITE 500
DALLAS TX 75254

LICENSE NUMBER: PE80131
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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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BAUMBERGER, LAURA B.
301 NORTH CATTLEMEN ROAD
SUITE 302
SARASOTA FL 34232

LICENSE NUMBER: PE65401
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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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REINBOLD, CHRISTOPHER T.
2056 VISTA PARKWAY
SUITE 150
WEST PALM BEACH FL 33411

LICENSE NUMBER: PE68639
EXPIRATION DATE: FEBRUARY 28, 2027
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STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

KUMAR, PRANJALI SHARAD
13431 SWANSEA AVE
WINDERMERE FL 34786

LICENSE NUMBER: PE88305
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

PELLISH, MARK A
200 EAST ROBINSON STREET
SUITE 1400
ORLANDO FL 32801

LICENSE NUMBER: PE46906
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor — Melanie S. Griffin, Secretary

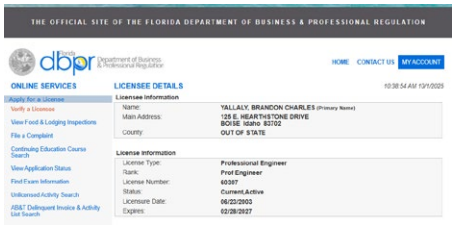
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

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

SMASON, JOEL D.
CAROLLO ENGINEERS, P.C.
4600 E. WASHINGTON
SUITE 500
PHOENIX AZ 85034

LICENSE NUMBER: PE58434
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

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LOCAL BUSINESS EXHIBIT "A"
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: 25-072 Water and Reuse Treatment Plant Projects Continuing Contracts (CCNA)

Prime Contractor's Name: Carollo Engineers, Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
DK Architects, 911 E Atlantic Boulevard, Suite 101, Pompano Beach, FL 33060	Andre Capi 954-941-3329 X1	Architecture	7
Engenuity Group, Inc., 300 Lock Road, Suite 302, Deerfield Beach, FL 33442	C. Andre Rayman 954-895-0174	Surveying	3
Terracon Consultants, Inc., 3347 NW 55th Street, Fort Lauderdale, FL 33309	Hugo Soto, P.E. 954-741-8282	Geotechnical	10

LOCAL BUSINESS EXHIBIT "A"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number 25-072 Water and Reuse Treatment Plant Projects

TO: Carollo Engineers,Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual ___X__ a corporation

_____ a partnership _____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Architectural Services _____

_____

_____

_____

at the following price: ____Hourly/to be determined_____

2025-09-23
(Date)

DK Architects
(Print Name of Local Business Contractor)

200 NE 1St Street
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

pompano beach
Florida's Warmest Welcome

CITY OF POMPANO BEACH
BUSINESS TAX RECEIPT
FISCAL YEAR: 2025 - 2026

Business Tax Receipt Valid from: October 1, 2025 through September 30, 2026

4483407 9/11/2025
DK ARCHITECTS
200 NE 1 AV 115

POMPANO BEACH FL 33060

THIS IS NOT A BILL

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE BUSINESS LOCATION.

BUSINESS OWNER: DESIGN KOLLABORATIVE
BUSINESS LOCATION: 200 NE 1 AV 115 POMPANO BEACH FL

RECEIPT NO:	CLASSIFICATION
26-00117020	PROFESSIONAL OFFICE (SEE REQUIREMENTS)

NOTICE: A NEW APPLICATON MUST BE FILED IF THE BUSINESS NAME, OWNERSHIP OR ADDRESS IS CH
BUSINESS TAX RECEIPT SHALL NOT BE DEEMED A WAIVER OF ANY PROVISION OF THE CITY CODE NOR SI
BUSINESS TAX RECEIPT BE CONSTRUED TO BE A JUDGEMENT OF THE CITY AS TO THE COMPETENCE OF TI
BUSINESS. **THIS DOCUMENT CANNOT BE ALTERED.**

BUSINESS TAX RECEIPTS EXPIRE SEPTEMBER 30TH OF EA

Ron DeSantis, Governor
Melanie S. Griffin, Secretary
Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF ARCHITECTURE & INTERIOR DESIGN

THE ARCHITECT HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

MCGINLEY, BLAISE EDWARD
DESIGN KOLLABORATIVE ARCHITECTS/PLANNERS, INC.
1500 ARGYLE DRIVE
FT LAUDERDALE FL 33312

LICENSE NUMBER: AR95527
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

ISSUED: 02/18/2025
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GBCI
GREEN BUILDING CERTIFICATION INSTITUTE
HEREBY CERTIFIES THAT

Andre Capi

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.

December 10, 2008

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number RLI 25-072

TO: Carollo Engineers, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual
X a corporation
_____ a partnership
_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Surveying Services

at the following price: _____

9/26/2025
(Date)

Engenuity Group, Inc.
(Print Name of Local Business Contractor)

300 Lock Road, Suite 302
(Street Address)

Deerfield Beach FL 33442
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829

VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Receipt #: 319-300782

Business Name: ENGENUITY GROUP, INC.
Business Type: ALL OTHERS (SURVEYOR)

Owner Name: ANDRE RAYMAN
Business Location: 300 LOCK RD
DEERFIELD BEACH
Business Phone: 5616551151

Business Opened: 07/30/2019
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		30		

For Vending Business Only

Number of Machines: **Vending Type:**

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
45.00	0.00	0.00	0.00	0.00	0.00	45.00

Receipt Fee 45.00
Packing/Processing/Canning Employees 0.00

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

License No.: LB6603
Expiration Date February 28, 2027

Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

ENGENUITY GROUP INC
1280 N CONGRESS AVE STE 101
WEST PALM BEACH, FL 33409-6377

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

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

BROWARD COUNTY
Certified Local Business

Office of Economic and Small Business Development

Governmental Center Annex
115 S. Andrews Avenue, Room A-680 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-3674 • TTY 954-357-5664

This Certificate is Awarded to:

ENGENUITY GROUP, INC.

As set forth in the Broward County Business Opportunity Act of 2012, the certification requirements have been met for:

County Business Enterprise (CBE)
Anniversary Date: September 21st

Sandy-Michael McDonald

Authorized Representative

The Office of Economic and Small Business Development must be notified within 30 days of any material changes to the business which may affect eligibility and request evaluation to determine if continued certification is appropriate.

A Service of the Broward County Board of County Commissioners
www.broward.org/smallbusiness

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

License No.: LS6667
Expiration Date February 28, 2027

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

JENNIFER C MALIN
1280 NORTH CONGRESS AVENUE, SUITE 101
WEST PALM BEAH, FL 33409

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

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

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number 25-072

TO: Carollo Engineers, Inc.
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual
__X__ a corporation
_____ a partnership
_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Geotechnical engineering services

at the following price: To be determined on a task by task basis

09/30/2025
(Date)

Terracon Consultants, Inc.
(Print Name of Local Business Contractor)

3347 NW 55th Street
(Street Address)

Fort Lauderdale, FL 33309
(City, State Zip Code)

BY: Hugo E Soto Hugo Soto, P.E.
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829

VALID OCTOBER 1, 2025 THROUGH SEPTEMBER 30, 2026

Business Name: TERRACON CONSULTANTS INC
Receipt #: 315-597
Business Type: ENGINEER (ENGINEER)

Owner Name: TERRACON CONSULTANTS INC
Business Location: 3347 NW 55TH ST
FT LAUDERDALE
Business Phone: 954-741-8282
Business Opened: 08/01/2005
State/County/Cert/Reg:
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		2		

For Vending Business Only
Number of Machines: Vending Type:

Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt Fee 30.00
Packing/Processing/Canning Employees 0.00

State of Florida
Department of State

I certify from the records of this office that TERRACON CONSULTANTS, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on December 31, 2003.

The document number of this corporation is F04000000114.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 16, 2025, and that its status is active.

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

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

Secretary of State

Tracking Number: 9171696598CU

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

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


Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
ACREE, RICHARD G.
1675 LEE ROAD
WINTER PARK FL 32789
LICENSE NUMBER: PE53962
EXPIRATION DATE: FEBRUARY 28, 2027
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Melanie S. Griffin, Secretary
FBPE
STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES
SOTO, HUGO E
15450 SW 27TH STREET
MIAMI FL 33185
LICENSE NUMBER: PE36440
EXPIRATION DATE: FEBRUARY 28, 2027
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LOCAL BUSINESS EXHIBIT "C

LOCAL BUSINESS
UNAVAILABILITY FORM

BID # 25-072

I,_____
(Name and Title)

of_____, certify that on the _____day of

_____, _____, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
NOT APPLICABLE		

Said Local Businesses:

___ Did not bid in response to the invitation

___ Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # 25-072

1. What portions of the contract have you identified as Local Business opportunities?

Geotechnical, Survey, and Architecture

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

Yes, the RLI # 25-072 was provided.

3. Did you send written notices to Local Businesses?

____ Yes _X_ No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes _X_ No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

We reached out to local, highly qualified, subconsultants that we have strong working relationships with.

7. List the Local Businesses you will utilize and subcontract amount.

DK Architects $ 7%

Engenuity Group Inc. $ 3%

Terracon Consultants, Inc. $ 10%

8. Other comments: _____

LOCAL BUSINESS EXHIBIT “D” – Page 2

_____

_____

_____

carollo®



We see water **differently.**

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Technical Advisor & QA/QC	Bob Cushing, PhD, PE, BCEE	41	PhD Civil Engineering, University of Texas, Austin MS Civil Engineering, University of Texas, Austin BS Petroleum Engineering, University of Texas, Austin
Technical Advisor & QA/QC	Lyle Munce, PE	40	MS Sanitary Engineering, South Dakota State University BS Civil Engineering, South Dakota State University
Technical Advisor & QA/QC	Tom Seacord, PE	29	MS Civil and Environmental Engineering, Clarkson University, New York BS Civil and Environmental Engineering, Clarkson University, New York
Technical Advisor & QA/QC	Eva Steinle-Darling, PhD, PE	22	PhD Civil and Environmental Engineering, Stanford University MS Civil and Environmental Engineering, Stanford University BS Chemical Engineering, Princeton University
Master Planning/Permitting	Laura Baumberger	23	MS Environmental Engineering, South Dakota State University BS Civil Engineering, South Dakota State University BA Spanish, South Dakota State University
Softening/Ion Exchange	Vincent Hart, PE, ENV SP	33	MS Environmental Engineering, Virginia Polytechnic Institute and State University BS Environmental Engineering, Syracuse University
Membranes	Brandon Yallaly, PE	28	MS Civil and Environmental Engineering, Auburn University BS Civil Engineering with Honors, University of Florida
Reuse/Water Treatment	Pranjali, Kumar, PE	12	MS Civil Engineering, University of Colorado, Boulder BE Civil Engineering, Nagpur University
Water/Reuse Treatment	Chris Reinbold, PE	22	
Construction Services	Doug Dumont, CCM	32	AAS Civil Engineering Technology, State University of New York at Canton
Operations	Leo Pou	28	AA Environmental Engineering, Miami Dade College

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Prime /Firm Name	**Carollo Engineers, Inc.**

Position / Classification	Maximum Hourly Rate ($)
Engineers/Scientists	
Company Officer	$367.00
Chief Engineer	$336.00
Senior Program/Project Manager	$326.00
Principal Professional	$326.00
Program/Planning Manager	$307.00
Supervising Professional	$299.00
Design/Planning Manager	$276.00
Senior Professional	$266.00
Assistant Project Manager	$245.00
Lead Professional	$238.00
Professional	$221.00
Assistant Professional	$216.00
Engineering Aide Specialist	$198.00
Staff Professional	$170.00
Engineering Intern	$129.00
Technicians	
Senior BIM Designer	$246.00
Lead BIM Designer	$231.00
BIM Designer 3	$217.00
BIM Designer 2	$201.00

BIM Designer 1	$177.00
Supervising Designer/Supervising GIS Specialist	$238.00
Lead Designer/Lead GIS Specialist	$215.00
Senior Designer/Senior Data Specialist	$202.00
Designer/Data Specialist	$181.00
Senior Drafter	$165.00
CAD Drafter	$153.00
Support Staff	
Senior Project Services Administrator	$202.00
Project Services Administrator	$199.00
Lead Document Processor	$192.00
Document Processor II	$168.00
Document Processor I	$148.00
Administrative Assistant	$143.00

Project Equipment Communication Expense (PECE) Per Direct Labor Hour	$17.00

Other Direct Expenses

Travel and Subsistence	Cost + 10%
Mileage	$0.725 per mile
Subconsultant	Cost + 10%
Other Direct Cost	Cost + 10%
Expert Witness	Hourly Rate x 2.0

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	**Engenuity Group, Inc.**

Position / Classification	**Maximum Hourly Rate ($)**
Department Director	$250.00
Sr. Project Land Surveyor	$170.00
Project Land Surveyor	$130.00
Sr. Field Representative	$150.00
Field Representative	$120.00
Sr. AutoCAD Tech	$150.00
AutoCAD Tech	$120.00
3 Person Survey Crew	$225.00
2 Person Survey Crew	$180.00
SUE Survey Crew	$275.00
Administrative Assistant	$100.00

Subject to annual inflation increase.

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	**Design Kollaborative Architects/Planners**

Position / Classification	Maximum Hourly Rate ($)
Director	$290
Project Architect	$290
Project Manager	$275
Drafting	$140
Administrative Staff	$98

Subject to annual inflation increase.

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Sub /Firm Name	Terracon Consultants, Inc

Position / Classification	**Maximum Hourly Rate ($)**
Principal	$285
Chief Engineer	$250
Senior Engineer	$215
Project Manager	$200
Project Engineer	$185
Staff Engineer	$150
Senior Engineering Technician	$125
CADD Technician	$115
Project Coordinator/Administrative Assistant	$100

Note: Private Utility Locates, MOT Setup and off duty officers will be charged with 15% markup

Subject to annual inflation increase.

City of Pompano Beach

RLI25-072 WATER AND REUSE TREATMENT PLANT PROJECTS - CONTINUING CONTRACTS (CCNA)

Position Classification & Maximum Hourly Labor Rate Schedule

Other Items	**Carollo Engineers, Inc.**

Description	Maximum Rate ($/hr)
Project Equipment Communication Expense (PECE) Per Direct Labor Hour	$17.00
Other Direct Expenses	
Travel and Subsistence	Cost + 10%
Mileage	$0.725 per mile
Subconsultant	Cost + 10%
Other Direct Cost	Cost + 10%
Expert Witness	Hourly Rate x 2.0

Exhibit C – Cover Page
1. Insurance Requirements
2. Approved Insurance

CONSULTANT shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions has been received and approved in writing by the CITY's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the CITY's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to CITY staff responsible for oversight of the subject project/contract.

CONSULTANT is responsible to deliver to the CITY for timely review and written approval/disapproval Certificates of Insurance which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage.

Throughout the term of this Agreement, CITY, by and through its Risk Manager, reserve the right to review, modify, reject or accept any insurance policies required by this Agreement, including limits, coverages or endorsements. CITY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as CITY's review or acceptance of insurance maintained by CONSULTANT, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by CONSULTANT under this Agreement.

Throughout the term of this Agreement, CONSULTANT and all subcontractors or other agents hereunder shall, at their sole expense, maintain in full force and effect the following insurance coverages and limits described herein, including endorsements.

1. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440. CONSULTANT further agrees to be responsible for the employment, control, and conduct of its employees and for any injury sustained by such employees in the course of their employment. If the firm has **no employees** or (only principals/owners), they may file a statutory exemption or sign the City's Workers' Compensation (WC) waiver if the firm has fewer than four employees.

2. Liability Insurance.

(a) Naming the City of Pompano Beach as an additional insured as CITY's interests may appear, on General Liability Insurance only, relative to claims which arise from CONSULTANT 's negligent acts or omissions in connection with CONSULTANT 's performance under this Agreement.

(b) Such Liability insurance shall include the following checked types of insurance and indicated minimum policy limits.

	Type of Insurance	**Limits of Liability**
GENERAL LIABILITY: Minimum $1,000,000 Per Occurrence and $2,000,000 Per Aggregate * Policy to be written on a claims incurred basis		
XX	comprehensive form	bodily injury and property damage
XX	premises - operations explosion & collapse hazard underground hazard	bodily injury and property damage
XX	products/completed operations hazard	bodily injury and property damage combined
XX	contractual insurance	bodily injury and property damage combined
XX	broad form property damage	bodily injury and property damage combined
XX	independent contractors	personal injury
XX	personal injury	Minimum $1,000,000 Per Occurrence and Aggregate
	sexual abuse/molestation	
	liquor legal liability	Minimum $1,000,000 Per Occurrence and Aggregate

*The city must be listed as Additional Insured and coverage must be Primary & Non-Contributory.

Coverages must include premises/operations, independent contractors, contractual liability, products/completed operations, and broad form property damage.

AUTOMOBILE LIABILITY: Minimum $1,000,000 Per Occurrence and Aggregate.

Bodily injury (each person) bodily injury (each accident), Property damage, bodily injury and property damage combined.

XX comprehensive form
XX owned
XX hired
XX non-owned

REAL & PERSONAL PROPERTY

___ comprehensive form Agent must show proof they have this coverage.

EXCESS LIABILITY Per Occurrence Aggregate

___ other than umbrella bodily injury and $1,000,000 $1,000,000 property damage combined

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PROFESSIONAL LIABILITY	Per Occurrence	Aggregate
XX * Policy to be written on a claims made basis	$1,000,000	$2,000,000

*The vendor must maintain coverage with a minimum of $1,000,000 per claim and $2,000,000 aggregate for contracts under $7.5M in construction value. The policy must cover negligent acts, errors, or omissions arising from professional services and the vendor must maintained coverage for the duration of the contract and at least 4 years after project completion.

(c) If Professional Liability insurance is required, CONSULTANT agrees the indemnification and hold harmless provisions set forth in the Agreement shall survive the termination or expiration of the Agreement for a period of four (4) years unless terminated sooner by the applicable statute of limitations.

CYBER LIABILITY	Per Aggregate	Occurrence
___ * Policy to be written on a claims-made basis $	1,000,000	$1,000,000

___ Network Security / Privacy Liability
___ Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)
___ Technology Products E&O - $1,000,000 (only applicable for vendors supplying technology related services and or products)
___ Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.

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3. Employer's Liability. If required by law, CONSULTANT and all subcontractors shall, for the benefit of their employees, provide, carry, maintain and pay for Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars ($100,000.00) per employee, Five Hundred Thousand Dollars ($500,000) per aggregate.

4. Policies: Whenever, under the provisions of this Agreement, insurance is required of the CONSULTANT, the CONSULTANT shall promptly provide the following:

(a) Certificates of Insurance evidencing the required coverage;

(b) Names and addresses of companies providing coverage;

(c) Effective and expiration dates of policies; and

(d) A provision in all policies affording CITY thirty (30) days written notice by a carrier of any cancellation or material change in anypolicy.

5. Insurance Cancellation or Modification. Should any of the required insurance policies be canceled before the expiration date, or modified or substantially modified, the issuing company shall provide thirty (30) days written notice to the CITY.

6. Waiver of Subrogation. CONSULTANT hereby waives any and all right of subrogation against the CITY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONSULTANT shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy which includes a condition to the policy not specifically prohibiting such an endorsement, or voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.

Exhibit "C"

CERTIFICATE OF LIABILITY INSURANCE

7/4/2026

DATE (MM/DD/YYYY): 2/6/2026

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 DBA Lockton Insurance Brokers, LLC in CA CA license #0F15767 444 W. 47th St., Ste. 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 1472602 CAROLLO ENGINEERS, INC. 2795 MITCHELL DR. WALNUT CREEK CA 94598-1601	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Zurich American Insurance Company — 16535 **INSURER B :** Allied World Surplus Lines Insurance Company — 24319 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 22986510 **REVISION NUMBER:** XXXXXXX

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	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:	Y	Y	GLO 9730569	7/4/2025	7/4/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 2,000,000 $ 25,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY X HIRED AUTOS ONLY SCHEDULED AUTOS X NON-OWNED AUTOS ONLY	Y	Y	BAP 9730571	7/4/2025	7/4/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) DED: COMP/COLL	$ 2,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX $ 2,000
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			NOT APPLICABLE			EACH OCCURRENCE AGGREGATE	$ XXXXXXX $ XXXXXXX $ XXXXXXX
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	WC 9730570	7/4/2025	7/4/2026	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	PROFESSIONAL LIABILITY FULL PRIOR ACTS	N	Y	0313-9010	7/4/2025	7/4/2026	EACH CLAIM: $2,000,000; AGGREGATE: $2,000,000	

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

RLI No. 25-072 - Water and Reuse Treatment Plant Projects - Continuing Contracts (CCNA). City of Pompano Beach is an additional insured as respects general liability and auto liability, and these coverages are primary and non-contributory, as required by written contract. (SEE ATTACHED.)

CERTIFICATE HOLDER

22986510
City of Pompano Beach
Post Office Drawer 1300
Pompano Beach FL 33061

CANCELLATION See Attachments

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

Joseph M Agnello

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