

MARCH 24, 2026



PROFESSIONAL ENGINEERING DESIGN SERVICES

Water & Wastewater Plant Electrical Improvements

RFQ #2026-1



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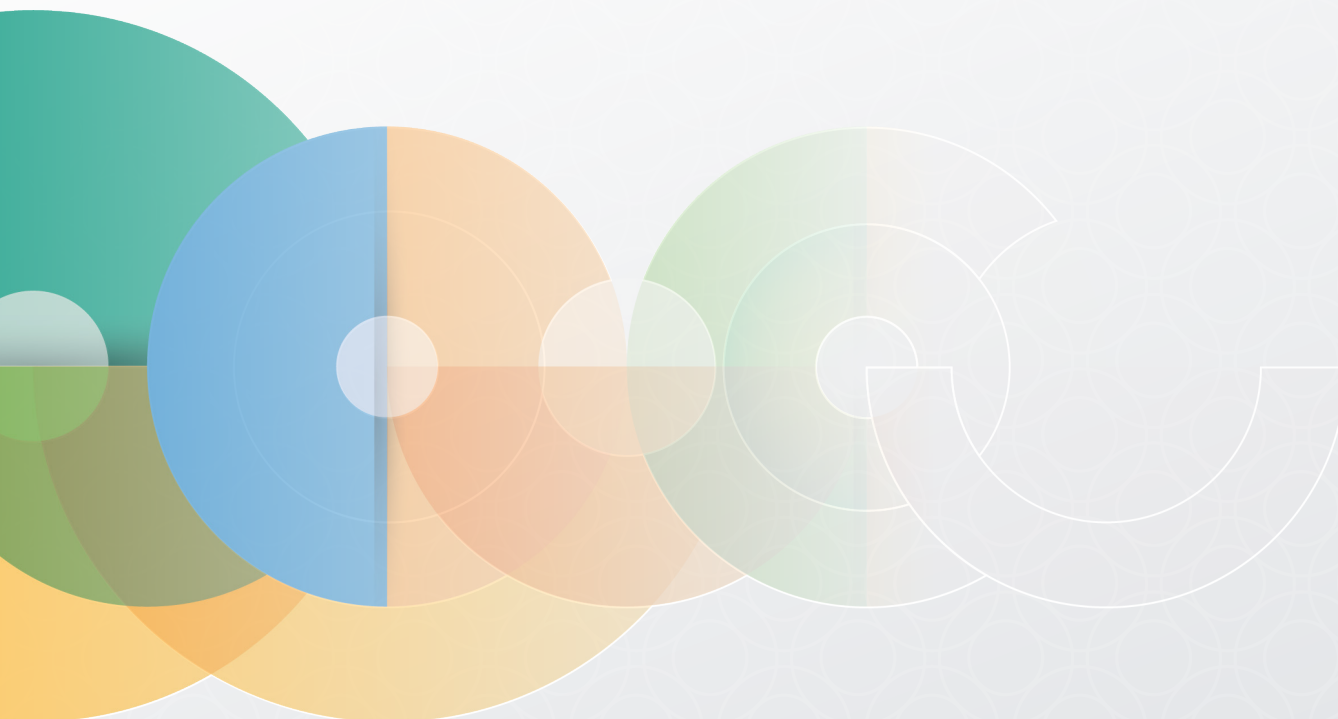
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TAB 1 | LETTER OF INTEREST

City of Cooper City
9090 SW 50th Place, Cooper City, FL 3332
March 24, 2025



Ardurra Group, Inc. (Ardurra) is pleased to submit our Statement of Qualifications to the City of Cooper City (City) for RFQ 2026-1 Professional Engineering Services for Water and Wastewater Plant Electrical Improvements.

■ About Ardurra

Ardurra is a multi-discipline engineering firm that focuses on serving public agencies since December 1977. As an ENR Top 20 ranked Water/Wastewater firm, we focus on Clients such as Cooper City, and growing a culture-focused firm centered around providing opportunities for our employees and exceptional service to our clients. **Ardurra is the largest engineering firm headquartered in South Florida**, has over 2,600 employees in 120 offices across the nation, which includes subject matter experts; grant managers; professional civil, structural, transportation, environmental, mechanical and electrical engineers; environmental scientists; ecologists; surveyors; GIS professionals; land planners; certified construction managers; and water and wastewater plant operators.

Our business philosophy delivers practical, resilient, and sustainable engineering solutions that prioritize public safety, operational reliability, and long-term value for our clients. We emphasize collaborative partnerships, proactive risk management, and technically sound designs that are constructible, maintainable, and compliant with applicable codes and standards.

■ Interest and Commitment to this Project

Ardurra is highly interested in providing professional engineering services for the City's water and wastewater plant electrical improvements due to our extensive experience delivering complex electrical upgrades at active treatment facilities and pump stations. This project aligns directly with our expertise in multi-discipline (electrical; process; mechanical; civil; controls; etc.) engineering design and construction support specifically for Water Treatment Plants (WTP) and Wastewater Treatment Plants (WWTP). We are committed to supporting the City's objectives of improving safety, reliability, resiliency, and regulatory compliance across its utility infrastructure.

It is critical to our sustained success and reputation, as a South Florida firm, that we deliver a project that meets Cooper City's expectations. Our multidisciplinary team structure provides depth of resources and staffing to support the City throughout the project lifecycle. Our electrical engineers work seamlessly with instrumentation and controls specialists, SCADA professionals, civil and structural engineers, and construction support staff to deliver high-quality designs. We understand the critical nature of maintaining continuous WTP/WWTP operations and have significant experience developing Maintenance of Plan Operations (MOPO) plans to minimize risk, downtime, and disruption.

■ Criterion 1A/2A/3A: Qualifications/Knowledge & Experience/Past Performance

Project Manager, Jeremy Koch, PE, PMP is a local Cooper City Resident and lives less than a half a mile walk from the WTP/WWTP. He brings his commitment as a local resident and technical director for Ardurra to ensure a successful project. Additionally, Jeremy is the most technically qualified project manager to lead a project of this complexity, having worked on over 40 WTP/WWTP facilities including Palm Beach County, Miami-Dade Water and Sewer Department, and City of Fort Lauderdale, each with their own specific electrical upgrade requirements.

Lead Electrical Engineer, Alexander "Alex" Nizov, PE is a South Florida Resident and brings more than 40 year career focused on electrical systems engineering specifically for WTP & WWTPs. His career has focused on the planning and design of electrical power distribution, process power, and control systems supporting WTP and WWTP operations, including both above and below ground infrastructure. He has extensive experience in designing medium and low voltage power distribution and leading electrical design efforts, such as needed for Cooper City.

Our qualifications directly align with the City's objectives and anticipated scope of services, including detailed assessment of existing electrical systems; coordination, short-circuit, lighting protection, and arc-flash studies; and the design of upgrades or replacements for switchgear, Motor Control Centers (MCCs), transformers, generators, Automatic Transfer Switches (ATSs), Variable Frequency Drives (VFDs), and associated instrumentation, controls, and Supervisory Control and Data Acquisition (SCADA) power interfaces. Throughout design, we prioritize safety, maintainability, and code compliance while incorporating resilient solutions that support both current and future operational needs.

Ardurra meets and exceeds this requirement, bringing more than 10 years of experience designing facilities of comparable size and complexity, with a proven track record demonstrated through multiple successful project.

Our team has delivered over 70 similar WTP/ WWTP electrical improvement projects across Florida, with the qualifications and capabilities to meet all needs and expectations for Cooper City on this project.

Criterion 4A: Firm's Project Staffing Availability, and Ability to Meet Time and Budget

We have structured our team to be highly cost-competitive while also providing the depth of support and availability of staff to deliver on time. In addition to Ardurra we have supplemented our local team with specialty local sub consultants to control costs and expand available resources:

- **Chen Moore & Associates (CMA)** – FPL Coordination, Regulatory, Civil, Drainage
- **Electrical Design Associates (EDA)** – Supporting Electrical Systems and Generators Engineering
- **Green Dade, Inc. (Green Dade)** – Supporting Electrical, Instrumentation & Controls, SCADA and HVAC
- **Pan Geo Consultants, LLC (Pan Geo)** – Geotechnical
- **Longitude Surveyors (Longitude)** – Survey, SUE, and 3D Scanning

Ardurra and all Team member firms are headquartered in South Florida. As a result, we bring the dedication and ability to meet Cooper City's requirements for cost, schedule and quality.

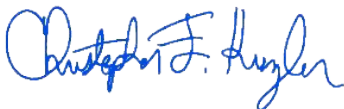
We have also identified back-up and supporting staff in the event additional resources are needed or if changes in staffing are requested by the City. This balance of resources and locally focused team members enables us to meet schedule, control cost, and bring familiarity with City guidelines and regulations to avoid delays. Our Project Manager and other team members have delivered work for the City in the past and know how to fast start these efforts.

Ardurra acknowledges Addendum #1 released on February 26, 2026, and Addendum #2 released on March 13, 2026. Ardurra is a professional engineering Corporation. Ardurra's Fort Lauderdale office, located at 900 SE 3rd Avenue, Suite 203, Fort Lauderdale, FL 33316, will serve as the physical location where work for this project will be performed. The firm's mailing address is 1000 NW 57th Court, Suite 800, Miami, FL 33126.

Ardurra appreciates the opportunity to submit this Statement of Qualifications and welcomes the opportunity to partner with the City on this important initiative. **We are confident that our technical expertise, proven experience, and collaborative approach will deliver safe, reliable, and resilient solutions that meet the City's operational and long-term infrastructure goals.** We look forward to the opportunity to discuss our qualifications further and to supporting the successful delivery of this project. Please contact either of us directly via our mobile phone numbers or emails as indicated below.

Sincerely,

ARDURRA GROUP, INC.



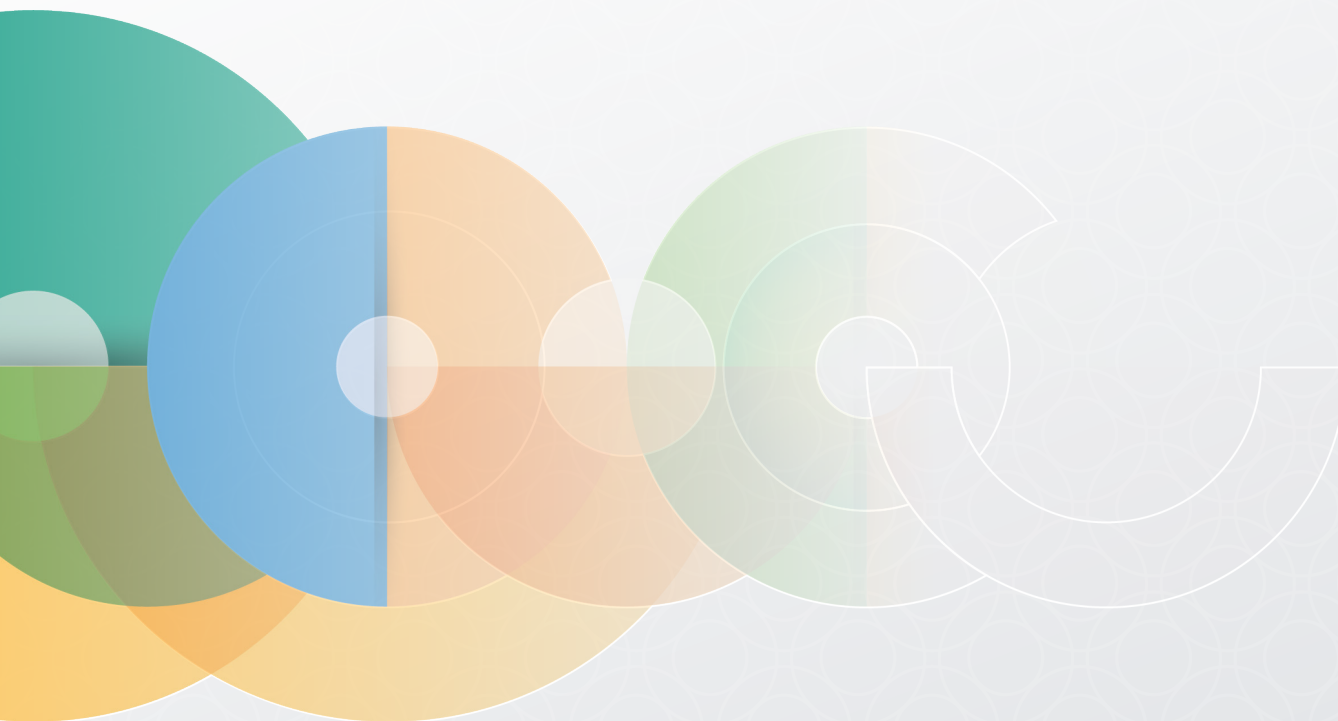
Christopher Kuzler, PE | Principal in Charge
813-549-2287 | ckuzler@ardurra.com

Point of Contact



Jeremy Koch, PE, PMP | Project Manager
305-807-2955 | jkoch@ardurra.com

Point of Contact



TAB 2 | LETTER OF QUALIFICATIONS

**CITY OF COOPER CITY – PROCUREMENT DIVISION
ARCHITECT-ENGINEER LETTER OF QUALIFICATIONS (LOQ)**

(I) - PROJECT INFORMATION

Solicitation No.: 2026 - 1 No. of Addenda Received: 2
Project Name: Professional Engineering Design Services for Water & Wastewater Plant Electrical Improvements

Prime # 1 (II) - PRIME CONSULTANT INFORMATION

Name: Ardurra Group, Inc. FEIN: 59-1782900 E-mail: ckuzler@ardurra.com
Business Address: 900 SE 3rd Avenue Suite 203, Ft. Lauderdale, FL 33316 Principal: Christopher Kuzler, PE Phone: (813) 549-2287
Contact Person's Name and Title: Christopher Kuzler, PE, Authorized Rep. Project Manager: Jeremy Koch, PE Fax: (N/A) -
Assigned Personnel: Please see the table of organization and attached resumes for assigned personnel.

(III) - PROPOSED A/E SUB-CONSULTANT(S) INFORMATION

Sub #	Firm Name	FEIN	Assigned Personnel
2	Electrical Design Associates, Inc. (EDA)	65-0868970	Damion Donaldson, PE
3	Pan Geo Consultants, LLC (Pan Geo)	81-5442829	Paul Catledge, PE
4	Longitude Surveyors (Longitude)	36-4551726	Eduardo Suarez, PSM
5	Green Dade, Inc. (Green Dade)	87-2642433	Edmundo Rodriguez, PE; Gino Valderrama, PE
6	Chen Moore and Associates, Inc. (CMA)	59-2739866	Freeman Bass, PE; Vincent Keleman
7			
8			

(IV) – A/E DISCIPLINES

(Please use Prime # and Sub # to identify each firm from sections II and III)

A/E DISCIPLINES	Prime #	Sub #
Prime Engineer of Record	1	
Supporting Electrical Systems and Generators Engineering		2
Geotechnical Engineering		3
Survey, SUE, and 3D Scanning		4
Supporting Electrical, Instrumentation & Controls, SCADA and HVAC		5
FPL Coordination, Regulatory, Civil, Drainage		6

(V) - PROPOSED NON-A/E SUB-CONSULTANT(S) INFORMATION

(Non-A/E firms shall not perform services described in a A/E Discipline Section)

a	Firm Name: FEIN: Address: Phone: () - Assigned Personnel: Assigned Services:
b	Firm Name: FEIN: Address: Phone: () - Assigned Personnel: Assigned Services:

(VI) - ABILITY OF TEAM MEMBERS TO INTERFACE WITH THE CITY

Ardurra's team members are readily available and fully committed to supporting the City at all times, providing responsive communication, proactive coordination, and dependable technical expertise whenever needed. Our project managers, engineers, and support staff maintain open lines of communication and are accessible for meetings, site visits, coordination calls, and urgent issue resolution to ensure seamless collaboration. By prioritizing availability, accountability, and timely decision-making, our team serves as an extension of City staff—delivering consistent support, clear communication, and reliable service throughout every phase of the project.

(VII) - RESUMES FOR ASSIGNED PERSONNEL

Attach resumes for the assigned personnel identified on this LOQ.

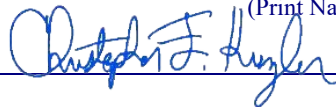
THE EXECUTION OF THE LOQ CONSTITUTES THE UNEQUIVOCAL OFFER OF THE PROPOSER TO BE BOUND BY THE TERMS OF HIS OR HER PROPOSAL. FAILURE OF AN AUTHORIZED PRIME FIRM REPRESENTATIVE TO SIGN THIS LOQ WHERE INDICATED BELOW, MAY RENDER THE PROPOSAL NON-RESPONSIVE. HOWEVER, THE CITY MAY, AT ITS SOLE DISCRETION, ACCEPT ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF HIS OR HER OFFER.

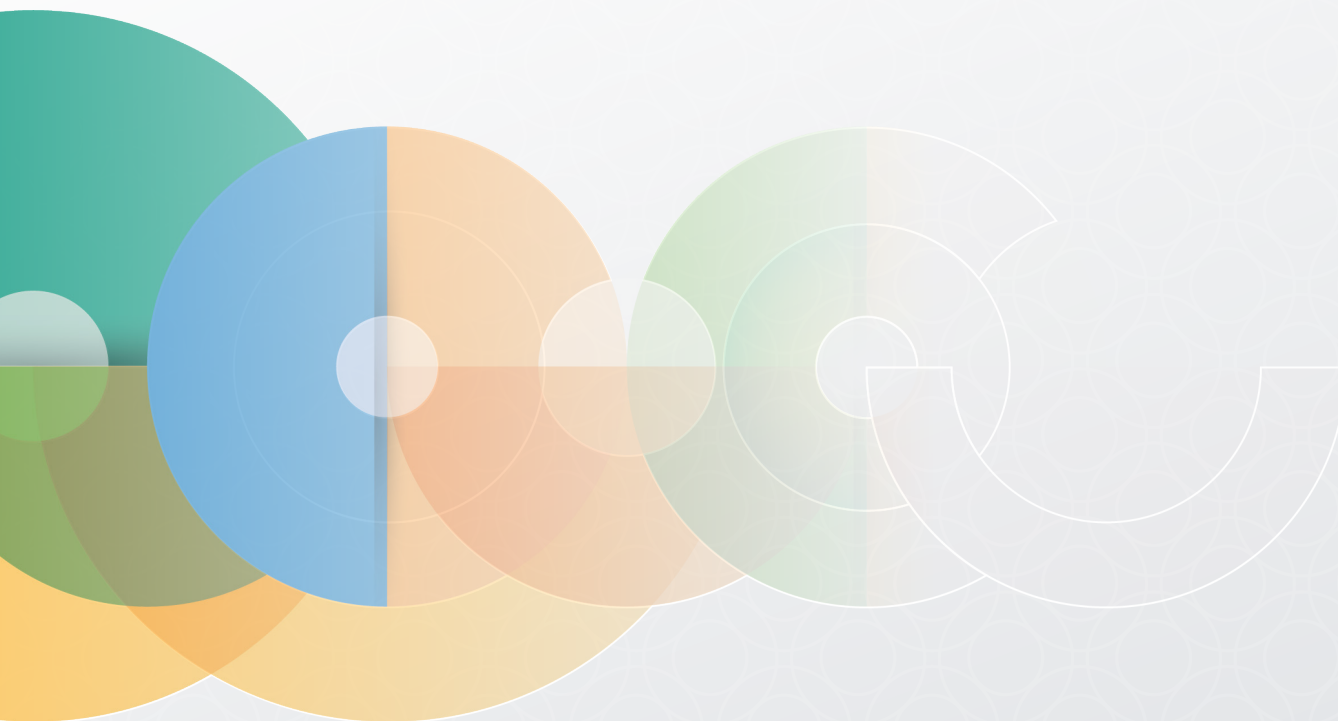
(IX) - PRIME CONSULTANT ACKNOWLEDGEMENT

I hereby certify that to the best of my knowledge and belief all the foregoing information is true and correct.

Authorized Prime Consultant's Representative: **Christopher Kuzler, PE**
(Print Name)

Title: **Authorized Representative**

Signature Authorized Representative:  Date: **March 10, 2026**



TAB 3 | TABLE OF ORGANIZATION

3 | TABLE OF ORGANIZATION

Table of Organization

Our multidisciplinary team is structured to provides a depth of resources, seamless coordination, technical expertise, and responsive support throughout the project lifecycle.

TEAM MEMBER FIRM LISTING/FEIN

Ardurra - 59-1782900

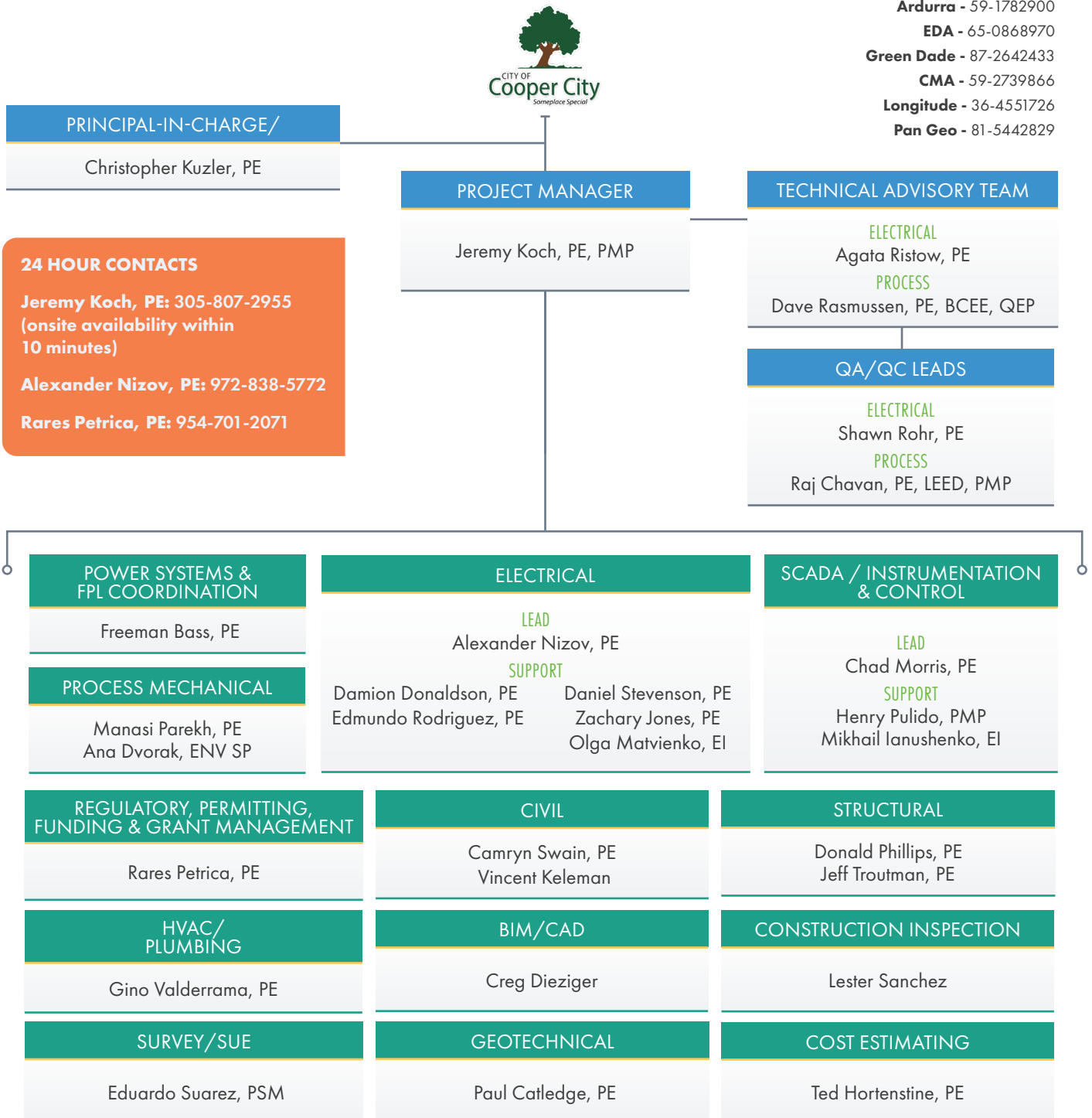
EDA - 65-0868970

Green Dade - 87-2642433

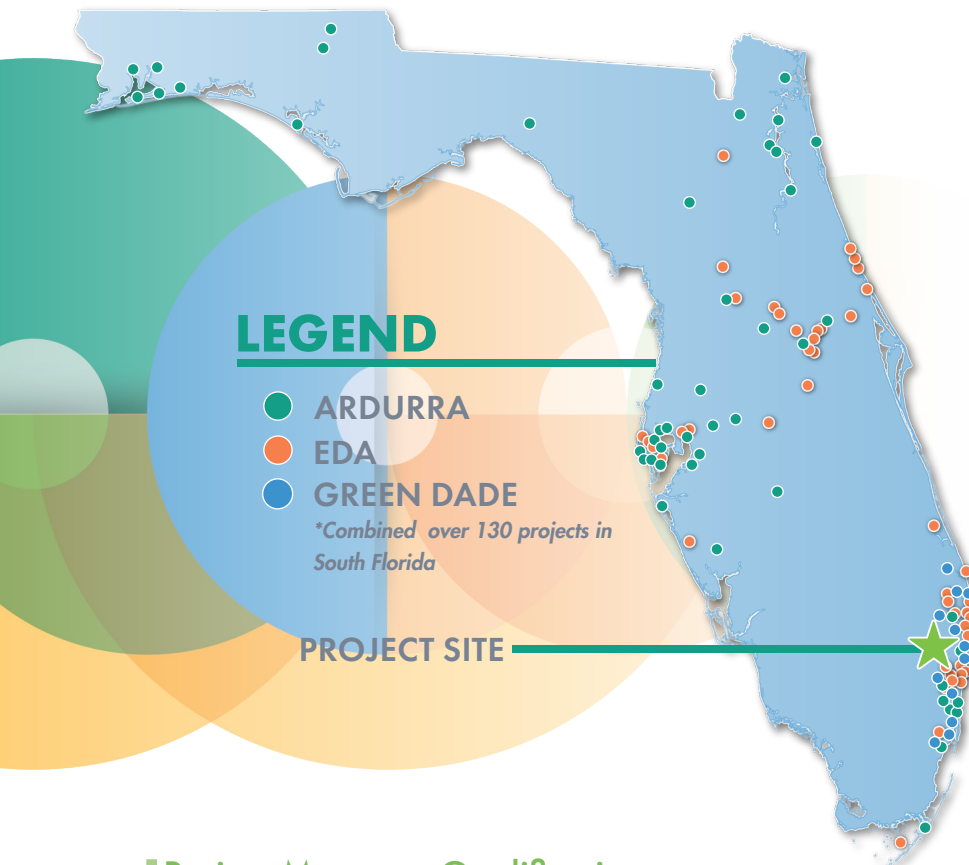
CMA - 59-2739866

Longitude - 36-4551726

Pan Geo - 81-5442829



Team Electrical Improvement Experience



The accompanying map illustrates a representative selection of electrical projects delivered across Florida by Ardurra and supporting Team members, **demonstrating the combined strength, depth, and geographic reach of our electrical engineering team.** These projects span water and wastewater treatment facilities, pump stations, utility infrastructure, and municipal systems, reflecting extensive experience with complex electrical upgrades, new power distribution systems, standby generation, and controls integration. The statewide distribution of projects highlights our familiarity with Florida's regulatory environment, utility coordination requirements, and site-specific operational challenges.

Together, as a single team, we bring decades of hands-on experience delivering reliable, code-compliant, and resilient electrical solutions for public agencies throughout Florida. This proven track record underscores our ability to staff projects with seasoned professionals who understand local conditions while leveraging the broader technical resources of our combined firms to consistently deliver successful outcomes.

Project Manager Qualifications



As both a longtime resident of Cooper City (I live a half mile walk to the WTP/WWTP), and an experienced WTP/WWTP Engineer, I take pride in the level of quality the City is able to achieve, and look forward to an opportunity to assist you with my professional expertise. Supporting the City in strengthening its water and wastewater systems is more than just a professional responsibility— it's a personal commitment to the place I call home.



Jeremy Koch, PE, PMP
Project Manager

Project Manager

JEREMY KOCH, PE, PMP

will serve as the Project Manager and primary point of contact for the City. With over 28 years of experience, and work on more than 40 treatment facilities and 150 pump stations, he brings a strong understanding of how electrical systems support treatment processes, pumping, and energy management within active facilities. Combined with his background in large-scale water and wastewater systems, Jeremy brings the coordination skills, technical insight, and risk awareness needed to deliver reliable, compliant, and efficiently executed electrical upgrade projects.



Ardurra National Electrical Resources

With a combined **250 years of experience, amongst its 17 team members**, the electrical group at Ardurra is perfectly suited to design the necessary electrical improvements at the Cooper City Water and Wastewater treatment plants. Our project technical director for this project, **Alexander Nizov, PE is local to south Florida and will be able to attend meetings and site visit without the need for excessive travel.** Alexander will be assisted by engineers in Florida and throughout the country to deliver this project on time and on budget.

 ARDURRA MEMBER • ROLE		 YEARS OF EXPERIENCE	 LOCATION
	AGATA RISTOW, PE • GROUP LEAD	19	FL
	ALEX NIZOV, PE • SENIOR TECHNICAL ADVISOR	40	FL
	DANIEL STEVENSON • ELECTRICAL ENGINEER V	20	FL
	OLGA MATVIENKO • ENGINEER III	8	FL
	HARRIS GALLETTA • ENGINEER I	1	FL
	GEORGE BOYD • ENGINEER V	35	SC
	ZACH JONES, PE • ENGINEER IV • TEAM LEAD	12	TX
	OZIEGBE AGBONAVBARE, PE • ENGINEER IV	11	TX
	JENNY SMITH • ENGINEER III	7	NC
	OMID KHODADADI • ENGINEER VI	15	CA
	SHAWN DUNN, EIT • ENGINEER II	2 with Ardurra 2 doing High Voltage Testing	AL
	SHAWN ROHR, PE • QA/QC MANAGER	35	AZ
	PHILLIP TRAN, EIT • ENGINEER I	1.5	CA
	RODDY CHISHOLM • GRADUATE ENGINEER	3	TX
	DALTON ALLEN • CAD MANAGER & LEAD DESIGNER MASTER ELECTRICIAN	20	TX
	CALEB AVERETT • ELECTRICAL DESIGNER IN CHARGE OF OUR LISP ROUTINES	1.5	TX
	ANNIE LEVESQUE, PE • SENIOR TECHNICAL ADVISOR AND PROJECT MANAGER	30	TX

The table of organization is a functional structure and is designed to facilitate rapid decision-making and clear lines of communication, authority, responsibility, and accountability. The Project Manager will serve as the single point of contact with the City for all contractual and task assignment issues and has complete authority and accountability for the performance of all assigned work. Quality assurance and quality control functions are provided in-house through an independent reporting line to ensure that these areas are never compromised in meeting technical, cost, and schedule objectives.

Our project team has been set up with one goal in mind—to provide the personnel and resources necessary to assist the City in the successful, timely completion of your project. To achieve this goal, we have structured our management approach and project team to:

- **Be responsive and flexible.** We are organized and prepared to handle everything from routine progress reporting to rapid response on fast-track deadlines.
- **Include a variety of well-respected experts,** familiar with federal, state, and locally funded project guidelines, so that we can always provide project team members who have the appropriate expertise and are free from potential conflicts of interest.
- **Provide individuals who will be dedicated to meeting the City's needs.** We have extensive resources that allow us to commit the people needed to serve the City's interests.

Ardurra and all subconsultant Team Members are South Florida Headquartered, bringing the local dedication Cooper City needs to meet cost, schedule and quality expectations!

Subconsultant Team Members

Ardurra has teamed with several qualified subconsultant firms. We selected these firms specifically to provide complementary skills that will add value to this project. The subconsultants chosen for this project enhance the strength of our team and provide Ardurra the opportunity to further develop talent available in the future. Ardurra staff have worked with these team members before on similar projects and our long history of delivering successful projects together sets the foundation of collaborative, seamless teamwork.



Electrical Design Associates

Electrical Design Associates, Inc. (EDA) is a Certified Minority Business Enterprise with **exceptional expertise in electrical and instrumentation design for public-sector water and wastewater facilities throughout Florida.** EDA provides comprehensive electrical distribution, standby power, SCADA, PLC, and control system design services for treatment plants and remote facilities, with proven experience up to 13 kV systems. As a key subconsultant, EDA enhances Ardurra's project delivery through strong technical leadership, rigorous QA/QC, state-of-the-art CADD capabilities, and hands-on engineer involvement, ensuring reliable, code-compliant, and constructible electrical solutions from design through construction.



Leading the way

Green Dade, Inc. (Green Dade) is an **electrical engineering firm providing electrical, HVAC, SCADA, and MEP design services for infrastructure projects, supported by licensed Professional Engineers.** The firm specializes in low, medium, and high-voltage power systems, emergency and standby power, industrial controls, and solar infrastructure, serving facilities such as water and wastewater plants, pump stations, airports, ports, and commercial buildings. Green Dade supports city and county agencies throughout South Florida and Puerto Rico, delivering practical, code-compliant, and well-coordinated engineering solutions.



chen moore and associates

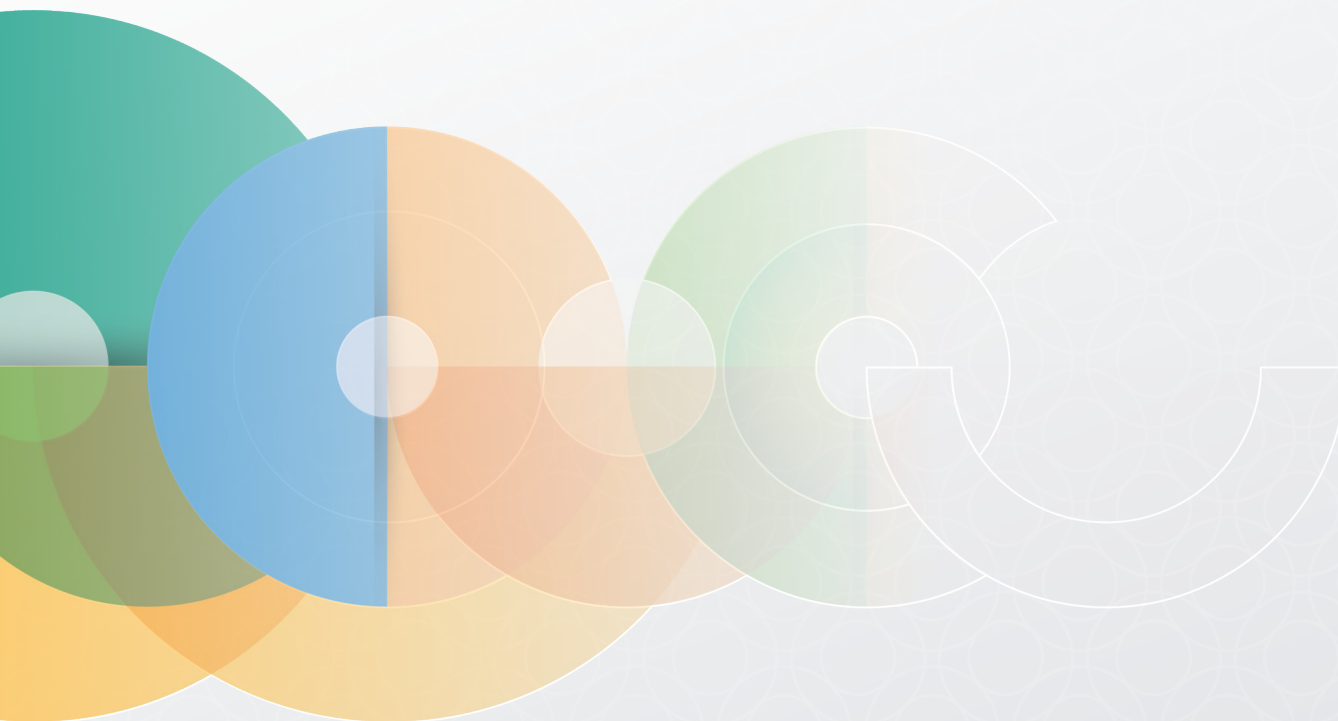
Chen Moore and Associates, Inc. (CMA) is an award-winning Florida corporation providing multidisciplinary engineering, planning, environmental, and construction administration services. Headquartered in Fort Lauderdale with offices throughout Florida and the Southeast, **CMA has served municipalities for more than three decades, including extensive experience with federally funded projects.** Guided by core values of Leadership, Excellence, Philanthropy, Culture, and Community, and led by President Peter Moore, PE., CMA is committed to delivering high-quality, responsive solutions that meet client needs and project schedules.



Longitude Surveyors (Longitude) provides surveying, mapping, 3D scanning, and subsurface utility engineering services in support of water and wastewater treatment plant projects. The firm delivers accurate survey control, topographic and boundary surveys, high-resolution laser scanning, and Quality Level B utility designations to support plant upgrades, electrical and instrumentation improvements, and SCADA modernization within active facilities. With more than 21 years of experience in South Florida, **Longitude Surveyors is trusted to deliver reliable, precise data** while maintaining safety and minimizing operational disruptions.



Pan Geo Consultants, LLC (Pan Geo) is a Broward County based geotechnical and structural engineering firm with over 21 years of experience, founded by Paul Catledge, PE. **The firm specializes in geotechnical engineering throughout South Florida, providing services from feasibility and due diligence studies through detailed design, forensic investigations, and construction-phase inspections.** Pan Geo delivers responsive, innovative, and cost-effective solutions that help clients identify and mitigate subsurface risks early, reducing project delays and cost overruns.



TAB 4 | RESUMES

CHRISTOPHER KUZLER, PE

PRINCIPAL IN CHARGE



Mr. Kuzler brings extensive experience leading complex infrastructure improvement projects for municipal utilities. His background includes oversight of electrical system evaluations, upgrades, and modernization efforts focused on improving safety, reliability, regulatory compliance, and operational resiliency at treatment facilities and pump stations. He provides executive-level leadership, strategic guidance, and quality assurance throughout all phases of project delivery, ensuring technical excellence, schedule adherence, and effective coordination with utility staff, regulatory agencies, and multidisciplinary design teams. His hands-on involvement and collaborative approach support practical, constructible solutions tailored to the operational needs of water and wastewater facilities.

Principal in Charge, Land O' Lakes WWTP Expansion Progressive Design Build, Pasco County, FL | Principal in Charge and QA/QC Officer for a progressive Design-Build project to increase the capacity of a 3.5 MGD WWTP to 5.0 MGD. Ardurra is the prime engineer on the project which includes a new headworks and grit removal system, new biological reactor basins, additional clarifiers, filter rehabilitations, biosolids handling improvements and major electrical and I&C upgrades. The plant is being designed to achieve advanced water treatment (AWT) quality effluent.

Principal in Charge, Logan Booster Pump Station, Pinellas County, FL | Principal in Charge for the design, permitting and construction of a new 30 MGD potable water booster station. Services included construction of a new 3,200 square foot pump building, electrical room, 4 horizontal split case pumps with VFDs. Project also included installation of a new 1,500 kW standby diesel generator set, installation of 18", 24", and 36" yard piping and valves, PLC and SCADA upgrades, and instrumentation.

Principal in Charge, Little Road WTP Pumping System and Upgrade, Pasco County, FL | Principal in Charge for the study, design and construction services for the upgrade of a 22 MGD WTP's pumping system. The project included the evaluation and upgrade of the facility's electrical and control systems, a new electrical/control room with new VFDs for six pumps ranging from 150 to 300 hp, reprogramming of the pump controller, generator and power source testing, new bypass piping and control valves, and a new lightning and surge protection system. The project was completed with no complications while keeping the facility on-line.

Principal in Charge, Oberly and Washington Terrace Pump Stations Emergency Generators, City of St. Petersburg, FL | Principal in Charge for a study and design services for replacement of existing emergency generators at two 64 MGD and 30 MGD potable high service pump stations. The study recommended replacement generator sizes based on anticipated loads along with other required electrical improvements.

Principal in Charge, Dunedin Water and Wastewater Treatment Facilities Master Plan Study, Dunedin, FL | Principal in Charge of investigative analyses of the City's water and wastewater treatment plants to improve process, instrumentation, controls and operations. Performed comprehensive technical analyses to determine improvements to the water and wastewater plants process, equipment, instrumentation, controls and operations. Also prepared conceptual design reports detailing proposed changes along with cost estimates and schedules.

Principal in Charge, Peace River WTF Expansion Progressive Design-Build, DeSoto County, FL | Served as Principal in Charge and QA/QC Officer for a 24 MGD WTF expansion delivered under a progressive design-build approach and where Ardurra served as a key subconsultant. Overseeing a team responsible for overall process design management; surveying; site civil engineering and permitting; and design of yard piping, sodium hypochlorite and ammonium hydroxide storage and feed systems, transfer and backwash pump stations; and gopher tortoise relocation and permitting services; and associated construction management, startup and commissioning services.

EDUCATION:

BA, Mechanical Engineering,
Polytechnic Institute of New
York

MS, Business Administration,
Adelphi University

YEARS OF EXPERIENCE:

39

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (45532)

OFFICE LOCATION:

4921 Memorial Hwy, Suite
300, Tampa, FL 33634

JEREMY KOCH, PE, PMP

PROJECT MANAGER



Mr. Koch's technical focus on treatment works, process mechanical and pumping systems rehabilitation, renewal, and modernization. Process, pumping and piping include evaluation and design for more than 40 treatment facilities (up to more than 250 million gallons per day), 150 pumps stations and conveyance pipelines ranging up to 96" diameter. Program management and utility master planning range from small to large scale (>1MM pop.) to address issues including regulatory compliance, water supply, energy management, water quality, residuals/biosolids management and capital planning.

Project Manager and Engineer of Record, Alexander Orr Jr. WTP Renewal and Replacement, Miami-Dade County Water and Sewer Department, FL | Work on this contract included for various improvements to the Alexander Orr Jr. WTP and associated distribution system. The WTP is a conventional lime softening facility with a design and rated capacity of 256 and 217.74 MGD respectively. Work was performed as part of a multiple year master service agreement and included condition assessment, process optimization, planning, design, permitting, and technical support of various plant works. Designed improvements included: lime kiln improvements and support systems; a 50 MGD 2,250 hp engine driven high service pump replacement, and design of a new electrical switchgear building with electrical distribution system to serve half of the WTP with improved reliability/resiliency.

Interdisciplinary Reviewer and Quality Coordination, Blacks Ford WRF Expansion, JEA, FL | Interdisciplinary Reviewer and Quality Coordination for expansion of the Blacks Ford WRF from 6 to 12 MGD. Work included evaluation, design, and construction phase services for this expansion. The project includes replacing existing screens with mechanical center-flow band screens, adding two BNR trains, and installing three new secondary clarifiers. Other improvements involve adding membrane disk filters, a new UV disinfection system, and additional effluent transfer capacity. Biosolids at the facility are aerobically digested to meet Class B standards and dewatered via centrifuge. Comprehensive electrical systems upgrades were incorporated for all new and modified systems.

Project Manager and Technical Lead, Assessment of the East Central Regional WRF, Florida Power & Light, West Palm Beach, FL | Project Manager and Technical Lead for the condition and operation assessment of the 70 mgd East Central Regional WRF and 30 MGD tertiary filtration facility that supplies reclaimed water to Florida Power & Light (FPL). The focus of the work was near term restoration of water quality. The review included process, electrical, instrumentation, operational, maintenance, asset management and financing to ensure future water quality will be maintained. The completed work targeted cost-effective process reliability.

Technical Advisor and Quality Reviewer, Hastings WTP Reverse Osmosis System Expansion, St Johns County, FL | Technical Advisor and Quality Reviewer for the design, permitting, bidding, and engineering services during construction for the expansion of the RO system to 0.66 MGD with four RO skids (3 Duty, 1 standby). The expansion also includes electrical building modifications, the addition of three new high service pumps with VFDs and associated electrical equipment, a new degasifier, new sodium hypochlorite skid and storage, and a new 400kW generator with belly tank and new ATS.

Upgrade of Pump Station 187, Consent Decree Project 5.12, Miami-Dade County Water and Sewer Department (MDWASD), Miami, FL | Project Manager and Technical Lead for the upgrade, modification and restoration of the existing booster/repump pump station that serves as the point of central operation for the wastewater transmission system. Work was completed as part of a schedule driven regulatory compliance program. Finished work consisted of four 400 hp dry pit pumps, operating in a repump / booster configuration. Work included full pump station restoration, including equipment, piping, HVAC, architecture, electrical, instrumentation and generator reconstruction. Ultimate operating capacity allowed for operation between 30 and 100 MGD.



EDUCATION:

BS, Forest Engineering, SUNY College of Environmental Science and Forestry at Syracuse University

YEARS OF EXPERIENCE:

28

REGISTRATION / CERTIFICATION:

Professional Engineer: Florida (69611)

Project Management Professional (PMP)

OFFICE LOCATION:

900 SE 3rd Ave, Suite 203, Ft. Lauderdale, FL 33316

ALEXANDER NIZOV, PE

ELECTRICAL LEAD



Mr. Nizov has more than 40 years in the field of electrical engineering. His experience includes management, planning, preliminary design reports and scope development, electrical and instrumentation design, construction management, submittals review, inspections and cost estimating for various water and wastewater systems, industrial, federal and commercial projects. He has extensive experience in designing medium and low voltage power distribution and utilization systems. Alex is an industry leading expert with managing and overseeing the completion of large-scale electrical design projects, conducting QA/QC for each project, and providing pre-design electrical assessment to clients across the country.

Electrical Engineer, Central WWTP, City of Dallas, TX | Mr. Nizov was responsible for the electrical design and management of sub-consultants. This project consisted of the electrical power distribution system design of the Central WWTP. The design included 30 new primary and secondary unit substations, medium voltage switchgears, and various medium and low voltage MCCs.

Electrical Engineer, Major Maintenance and Rehabilitation Improvements Central WWTP, Dallas, TX | Responsible for the electrical design associated with the replacement of bar screens, switchgears, LCS's, and 750kVA unit transformers throughout the plant. Design also included providing power for new electrical gate actuators and non-potable water pumps.

Electrical Engineer, Southside WWTP Basin Complex Electrical and Mechanical Improvements, City of Dallas, TX | Responsible for the electrical and instrumentation design to upgrade the wastewater treatment plant. The design included modifications of the electrical distribution system with medium voltage switchgears, low voltage motor control center and pad mounted transformers.

Project Manager/Lead Electrical Engineer, North Texas Municipal Water District, Wylie WTP III Power Redundancy and Electrical Building Improvements, Wylie, TX | This project will provide redundant electrical feed from the main switchgear to each MCC, improving overall reliability of electrical service at WTP III by reducing the possible single points of failure. The electrical scope of work includes MCC modifications, dual 4160 volt feeders, dual load control station, new protective relay, arc-flash study, and the design for a new sludge pump station electrical building.

Electrical Engineer, North Texas Municipal Water District WTP High Service Pump Station 2-2/2-3, Wylie, TX | Responsible for the electrical design for HSPS-2-2/2-3. The design included the new 5KV Main Switchgear, 5 KV MCC's, 5 KV VFD's, LV MCC's, transformers, new protective relaying system and control system for existing sixteen 5 KV pump motors, Arc flash hazard analysis, short circuit study, protective coordination study, and modifications to existing SCADA system.

Electrical Engineer, North Texas Municipal Water District Wilson Creek WWTP, Electrical Improvements Phase I, Allen, TX | Responsible for the electrical design for Wilson Creek RWWTP- Phase I. The design included new overhead 5KV Loop-1 consisted of 40 power poles and reclosers, modifications of various medium voltage and low voltage MCC's, and primary and secondary substations, new protective relaying system, Arc flash hazard analysis, short circuit study, protective coordination study, and modifications to existing SCADA system.

Electrical Engineer, Coastal Water Authority Capers Ridge Pump Station, TX | Responsible for the electrical design for Capers Ridge Pump Station. The design included coordination with Electric Power Company to meet all requirements, new electrical building, new 5 KV Main Switchgear and control panels, new generator, design of new medium voltage and low voltage Switchgears, MCC's, Switchboards, Power Panels, VFD's, new protective relaying system, new underground 5 KV electrical duct bank system, new 4- 2500HP each, 4160V, 3ph medium voltage synchronous pump motors starters and control panels, various control valves system.

EDUCATION:

BS, Electrical Engineering,
Chuvashsky State
University of Moscow

YEARS OF EXPERIENCE:

40

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (70107)

OFFICE LOCATION:

900 SE 3rd Avenue, Suite
203, Ft. Lauderdale, FL 33316

AGATA RISTOW, PE

ELECTRICAL TECHNICAL ADVISOR



Ms. Ristow has 17 years of electrical engineering experience for the water, wastewater and solid waste, food and beverage, pharmaceuticals and oil and gas markets. Her expertise encompasses the design, implementation, and project management of electrical system improvement and SCADA projects for water and wastewater treatment plants across the United States. Additionally, she has experience in electrical engineering for transportation applications including project management, light rail, catenary, and signaling.

Electrical Engineer, Lovegrove WTP Electrical Upgrades, JEA, FL | Electrical Engineer for the upgrades to the JEA Lovegrove WTP. This project included demolishing and relocating electrical equipment from the HSP building to a new air-conditioned electrical building. The new electrical building houses a new MCC, new ATS, new variable frequency drives, new lighting panel board and transformer, new PLC, new network rack and a new operator workstation. The project included a new generator docking station based on JEA's requirements for generators 500 kW and above. The new electrical building and the pump building provides new security access control equipment. The project also included evaluating the need for replacing the generator and minor modifications to the building.

Electrical Engineer, JEA Blacks Ford WRF Expansion, JEA, FL | Served as the electrical engineer for the Blacks Ford Water Reclamation Facility Expansion, a major infrastructure project that doubled treatment capacity from 6.0 to 12.0 MGD. She led the design and implementation of two new electrical buildings, each equipped with 480V switchgear in a main-tie-generator main-tie-main configuration, double-ended MCCs and diesel standby generators to meet FDEP backup power requirements. Her work included evaluating existing electrical infrastructure, determining load capacity, and coordinating with the utility provider to secure upgraded services through JEA's Powerclerk system. Agata's design ensured reliable power distribution for all new process areas and was fully aligned with JEA Standards Version 2023, supporting long-term operational efficiency and seamless integration with plant-wide controls.

Electrical Engineer, Fleming Island WWTF Electrical Upgrades Evaluation & Basis of Design, Clay County, FL | Electrical Engineer for the evaluation of all major facility components at the Fleming Island WWTF. Following the evaluation, she developed the basis of design report for the proposed new electrical and instrumentation systems and other miscellaneous improvements. The basis of design report encompasses a range of critical tasks to enhance facility functionality and safety. This includes upgrading lightning protection, replacing booster pump starters, upgrading panels at the chemical building with fiberglass reinforced plastic enclosures, addressing degraded conduit and wire with schedule 80 PVC, and improving ground connections. Components at the clarifiers and on-site duplex pump station control panels are upgraded for durability, and Sludge Pump #1 undergoes comprehensive replacement.

Engineer of Record, 12733 Abess Blvd Pump Station Grounding, Surge Protection, & Lightning Protection, JEA, FL | Engineer of Record for the assessment and improvements of the pump station's grounding, lightning, and surge protection systems. The work included field data collection and evaluation against JEA and industry standards, assessment of the lightning protection system using the rolling sphere method, and recommendations for new air terminals and down conductors where deficiencies were identified. Surge protection was reviewed and found adequate. The grounding system was evaluated using soil resistivity data and ground grid calculations, with recommendations to ensure an effective equipotential grounding system.

Electrical Engineer, City of St. Petersburg Oberly and Washington Terrace Generator Replacement Project, St. Petersburg, FL | Electrical Engineer for generator upgrades at the City's Oberly and Washington Terrace Water Distribution Pump Stations, which have experienced issues due to severely oversized generators. She evaluated maintenance records, utility demand and usage data, historized generator data, and future power needs to recommend appropriate generator sizing and distribution configurations, and advised against maintaining the City's curtailment agreement in favor of Tier 4 generators to support demand response operations.

EDUCATION:

MS, Electrical Engineering,
INSA Lyon Engineering
University

Sheffield University (Sheffield,
United Kingdom), Erasmus
Study Abroad Program

YEARS OF EXPERIENCE:
17

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (89628)

OFFICE LOCATION:

405 Golfway West
Drive, Suite 201A, St.
Augustine, FL 32095

DAVE RASMUSSEN, PE, BCEE, QEP

PROCESS TECHNICAL ADVISOR



Mr. Rasmussen has over 17 years of experience in the planning, design, and construction of water and wastewater treatment facilities. His expertise includes process evaluation, plant hydraulics, electrical and mechanical system integration, and implementation of treatment process improvements to enhance reliability and operational efficiency. Dave has led and supported numerous treatment plant upgrades and expansions throughout Florida, including major projects for utilities such as JEA, Clay County Utility Authority, and St. Johns County. His experience includes improvements to headworks, biological treatment systems, tertiary filtration, UV disinfection, solids handling systems, and plant pumping infrastructure, as well as upgrades to electrical systems, MCCs, generators, and instrumentation and controls. In his role as Process Technical Advisor, Dave provides guidance on treatment process performance, operational considerations, and integration of electrical and mechanical systems within water and wastewater facilities. His experience working closely with utility operators, engineers, and contractors allows him to support practical, cost-effective solutions that improve plant performance and long-term reliability.

Project Manager, Peters Creek Water Reclamation Facility (WRF) Expansion & Effluent Management, Clay County Utility Authority, FL | Mr. Rasmussen was the project manager for the design, permitting, bid phase assistance, and engineering support during construction services for the Peters Creek Water Reclamation Facility Expansion and Effluent Management project. The project consisted of evaluating the entire service area (Governors Park and Peters Creek), providing population and flow projections, and defining ultimate build-out to support future growth. As part of the program, a cost/benefit analysis was performed to determine the most economical long-term solution for CCUA. The greenfield WRF has a capacity of 1.5mgd AADF, with site planning that allows for future expansion to 10 mgd AADF. The project design includes 7 miles of 16-inch force main, 12-inch reclaimed water main, and a new 2 mgd lift station.

Project Manager, Monterey WWTF Improvements, JEA, FL | Mr. Rasmussen is the project manager for the hydraulic and process evaluation, design, permitting, bidding, cost estimating and construction support services for improvements to the Monterey WWTF. The project includes renovation of the existing influent pump station and conversion to a coarse screening facility, a new influent pump station and fine screening structure, SBR improvements, sludge holding improvements, installation of a second centrifuge, effluent pump station improvements, effluent equalization tank rehabilitation, a plant water pumping, filtration, and distribution system, a new electrical building, new emergency generator, and site improvements.

Project Manager, Ridgecrest WTP Electrical Upgrades, Clay County Utility Authority (CCUA), FL | Mr. Rasmussen was the project manager for the design, bidding, and construction administration services for a new electrical system with a new standby generator, new instrumentation and controls, and new electrical equipment for the Ridgecrest WTP to provide a fully functional system. This project included the electrical and instrumentation and controls for a new offsite well pump #2, an additional chemical feed pump, new 60 hp rated VFDs in Pump Building 1 and 2, new Fiber optic cable to the existing warehouse for future remote monitoring, new motor control center (MCC) in pump Building 2 with a PLC panel, and new electrical for the new 500 KW generator.

Project Manager, CR214 Mainland Water Treatment Plant Blending and Alkalinity Adjustment Modifications, St. Johns County, FL | Mr. Rasmussen was responsible for managing the design and construction for the design modifications to implement improvements at the CR214 Mainland WTP to allow blending of distribution system water supplied by the Northwest WTP. The design includes upgrades to the existing clearwell transfer pump station along with large diameter transfer piping located within the plant site, relocation of chemical feed injection points with new feed systems, and new carbon dioxide feed system for pH adjustment.



EDUCATION:

BS, Environmental Engineering, University of Central Florida

YEARS OF EXPERIENCE:
17

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (77561)

Qualified Environmental Professional (QEP),
Institute of Professional Environmental Practice

Board Certified Environmental Engineer (BCEE),
American Academy of Environmental Engineers

OFFICE LOCATION:

405 Golfway West Drive, Suite 201A, St. Augustine, FL 32095

SHAWN ROHR, PE ELECTRICAL QA/QC LEAD



Mr. Rohr has over 34 years of experience focused on power and control system design of water and wastewater treatment and distribution facilities, including the design of power distribution, backup power alternative, control, instrumentation and SCADA systems. His experience includes project management, project engineer, and quality control, documenting design requirements for clients, preparing EI&C level of effort (LOE), coordinating between the electrical and I&C design teams, clients and other engineering disciplines, and providing construction support and startup services. He has completed electrical and control system designs for treatment plants, chemical feed systems, and pumping stations.

Technical Reviewer, Lovegrove WTP Electrical Upgrades, JEA, FL | Mr. Rohr was the the technical reviewer for the electrical upgrades to the JEA Lovegrove WTP. This project includes demolishing and relocating electrical equipment from the HSP building to a new air-conditioned electrical building. The new electrical building will house a new MCC, new ATS, new variable frequency drives, new lighting panelboard and transformer, new PLC, new network rack and a new operator workstation. The project includes a new generator docking station based on JEA's requirements for generators 500 kW and above. The new electrical building and the pump building will be provided with new security access control equipment. The project also includes evaluating the need for replacing the generator and minor modifications to the HSP building.

Electrical, I&C, Quality Engineer, Blacks Ford WRF Expansion, JEA, FL | JEA Planning has identified the need to expand the Blacks Ford WRF from 6.0 MGD to 12.0 MGD. Ardurra is providing evaluation, design, and construction phase services for this expansion. The facility produces public access reuse water meeting advanced water treatment limits. The project includes replacing existing screens with mechanical center-flow band screens, adding two biological nutrient removal (BNR) trains, and installing three new secondary clarifiers. Other improvements involve adding membrane disk filters, a new UV disinfection system, and additional effluent transfer capacity. Biosolids at the facility are aerobically digested to meet Class B standards and dewatered to 22 percent dry solids using a centrifuge and hauled off to a composting facility.

Technical Reviewer, Hastings WTP Expansion, St Johns County, FL | Technical Reviewer for the design services for the expansion of the RO system to 0.66 mgd with four (4) RO skids (3 Duty, 1 standby). The expansion also includes electrical building modifications, the addition of three new high service pumps with VFDs and associated electrical equipment, a new degasifier, new sodium hypochlorite skid and storage, and a new 400kW generator with belly tank and new ATS.

Electrical Engineer, CRWS WWTP Phase VII Rehabilitation Project, Trinity River Authority (TRA), Grand Prairie, TX | Provided the project oversight and quality control review for the electrical and the instrumentation and control design portions of the project. The project includes the evaluation for replacement of three major substations each with redundant transformers of 5 MVA each, the replacement of two aeration system blowers (each with medium voltage motors rated at 1,250 hp), several 1,500 kVA pad mounted transformers and distribution improvements. The SCADA improvements included the addition of several multi-function power monitoring relays and integrating them into the SCADA system and the Power Monitoring and Control system. This project also developed a plant wide power and arc flash study and evaluation the proposed modifications to the electrical system.

Electrical/I&C Manager, San Antonio Water System Generator Project, San Antonio, TX | Develop scope and LOE for backup generator project aimed at providing backup power during power outages and load shedding opportunities for local electric utility. Project includes providing local automatic transfer in addition to remote operation by electric utility to facilitate load shedding during high demand periods. After being awarded the project, provided technical expertise for both electrical and I&C designs as well as QAQC reviews.

EDUCATION:

BS, Electrical Engineering,
Kansas State University

YEARS OF EXPERIENCE:

34

REGISTRATION / CERTIFICATION:

Professional Engineer:
California (21900)
Arizona (35678)

OFFICE LOCATION:

1001 North Central
Avenue, Suite 900,
Phoenix, AZ 85004

RAJ CHAVAN, PE, LEED, PMP

PROCESS QA/QC LEAD



With over 20 years of experience in civil and environmental engineering, Mr. Chavan specializes in water and wastewater treatment practices, focusing strongly on sustainability, resilience, and climate change adaptation. His expertise extends to the One Water approach, integrating water reuse, conservation, and environmental stewardship into every project. Raj has led national design, research, and planning/evaluation efforts, serving as both a national practice lead and a project technical lead. Skilled in hydraulic and process modeling, Mr. Chavan designs and retrofits wastewater treatment systems, with expertise in Biological Nutrient Removal (BNR) and advanced treatments such as intensification/densification processes for nutrient removal and beneficial reuse.

QA/QC Manager, West Secondary Treatment Expansion to 150 MGD, Flamingo Water Resource Center (FWRC), Las Vegas, NV | The project includes the expansion of secondary treatment from 120 MGD to 150 MGD at FWRC. The design includes three aerations basins (10 MGD each), secondary clarifiers (140 foot diameter), blower and electrical building, expansion of secondary effluent box (280 MGD), pilot testing bed for evaluating any new technologies and mode of operation, and related components. Responsibilities included reviewing and advising on design and constructability with respective planning and design criteria, existing facilities, design calculations, capacity evaluation modeling, integrity of the project, all discipline coordination, quality of the project, budget, schedule, etc. Responsibilities also includes reviewing design calculations, construction drawings, and specifications for the projects at various stages, including preliminary, final, and bid documents.

Technical Lead, Spanish Fork/Mapleton WRF Plant Design Expansion and Retrofit, Spanish Fork City, UT | The project includes design of 12 MGD Membrane Bioreactor (MBR) plant, includes design of headworks, secondary treatment, UV disinfection, solids handling, equalization basin, and permitting. Reviewed and analyzed process operation data, established process design criteria, developed process model to meet coming stringent nitrogen and phosphorus limits. The project also includes design of retrofit and expansion of their solids handling facility (including thickening, sludge holding tanks, dewatering facility, digesters rehab). He reviewed and analyzed process operation data, established process design criteria, and manage multi-disciplinary group to produce bid documents for the expansion.

Process/Project Engineer and Project Manager, City of Winnemucca Wastewater Facility Phase I Expansion, Winnemucca, NV | The treatment facility will be 3.5 MGD peak flow, with the expansion replacing the existing influent pump station, a new 5.6 miles force main, new headworks, secondary treatment, solids handling facility, rapid infiltration basins, and supporting facilities. Responsibilities included developing design criteria, coordinating design with other team members, performing hydraulic and design calculations, performing process modeling, preparing plans and specifications for expansion, and engineering services during bid and construction. He was also involved in the start-up of the facility.

Project/Process Engineer/Reviewer, City of Reno WRF Expansion, Reno Stead, NV | The project includes expansion of the WRF from 2 MGD to 4 MGD, along with pilot testing of ozone combined with biological activated carbon (BAC) to provide advanced effluent treatment for indirect potable water reuse. Performed design calculations and assessment for the impact of influent/effluent/Solids discharge from the WRF to Truckee Meadows WRF. Also developed engineering report summarizing findings and recommendations.

Technical Advisor, Crest Ave WWTP Expansion and MBR Expansion, Winter Garden FL | The expansion will increase biological treatment capacity to 5 MGD to BNR/MBR to meet stringent nutrient limits. The processes include headworks, biological treatment, disinfection, and solids handling facility. Responsibilities included overseeing all design approaches to ensure systems were robust, incorporated appropriate redundancy, and consistently met the highest treatment standards. He also maintained the overall quality of project deliverables.

EDUCATION:

Doctorate, Civil and Environmental Engineering, University of Nevada

MS, Civil and Environmental Engineering, University of Nevada

BS, Shivaji University, Kolhapur, India

YEARS OF EXPERIENCE:

20

REGISTRATION / CERTIFICATION:

Professional Engineer: Nevada (019021)

LEED Green Associate #10624368

Project Management Professional (PMP)

OFFICE LOCATION:

2140 E Pebble Road, Suite 100, Las Vegas, NV 89123

DAMION DONALDSON, PE

ELECTRICAL SUPPORT



Mr. Donaldson is the chief electrical engineer for Electrical Design Associates, Inc., and has 21 years of experience in various projects within the private and public sectors. Mr. Donaldson is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for roadway and industrial facilities. His electrical designing responsibilities encompass all aspects of drawing production, as well as system design.

Electrical Engineer of Record, PBC System Wide Wellfield Improvements, Palm Beach County, FL | Provided electrical and instrumentation design and bidding for improvements to surficial aquifer production wells located at two of the County's water treatment plants (No. 2 & 8) throughout the Palm Beach County Water Utilities Department (PBCWUD) service area.

Electrical Engineer of Record, Westport WWTP Expansion, Port St. Lucie, FL | Provided electrical and instrumentation design associated with the expansion of the City's Westport WWTF from 6 MGD to 12 MGD in capacity. Design includes replacement and upgrade of the site wide PLC system.

Electrical Engineer of Record, Lift Station No. 3, 4, 8 and 9 Rehabilitation, Lantana, FL | Provided electrical engineering services for the project, including electrical design associated with the demolition of the existing FPL meter can, main disconnect switch, PCP, RTU, and dry pit electrical equipment. The scope also included electrical and I&C design for a new submersible duplex lift station with across-the-line starters for each pump. This work involved an upgraded FPL service, new electrical equipment rack, utility meter, main disconnect switch, pump control panel (PCP), remote telemetry unit (RTU), and field instrumentation such as a level probe and backup float switch. EDA also coordinated with the local power company as required to provide electrical service to the site.

Electrical Engineer of Record, Lift Station No. 13 Electrical Panel Relocation, West Palm Beach, FL | Provided electrical engineering services for the referenced project. The scope of work included the evaluation, design, and relocation of the electrical pump control panel (PCP), FPL meter can, main disconnect switch, and remote telemetry unit for Lift Station No. 13 to support improved site functionality, accessibility, and reliability. The work also included coordination with the local utility, updates to electrical layouts and connections, and preparation of construction documents to ensure safe and code-compliant implementation.

Electrical Engineer of Record, Conversion of NPK Transfer Pump Station to In-Line Booster Station, Islamorada, FL | Electrical design associated with the electrical demolition of unused facilities which includes a chlorine contact basin, process air blowers, chemical feed equipment, electrical junction boxes on top of the NPK pump station structure and transfer pump station. Electrical design associated with the new Booster Pump Building which includes a main electrical equipment room, pump room and control room. Electrical design associated with the new main electrical service power distribution equipment (main breaker, automatic transfer switch, motor control center, lighting panel with associated step-down transformer). Electrical design associated with the proposed in-line booster pumps (3 total).

Electrical Engineer of Record, THISCD WWTP Deep Injection Well & Dual Zone Monitor Well, Davie, FL | Provided electrical and instrumentation engineering for the project, including design for a new chlorine contact tank, relocation of backwash pumps, new injection well pumps, a sludge tank blower, and a new electrical building housing associated VFDs and equipment. Services also included electrical and instrumentation design for the new deep injection well and dual-zone monitor well/lift station.

EDUCATION:

BS, Electrical Engineering,
Florida International
University

YEARS OF EXPERIENCE:

21

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (70851)

OFFICE LOCATION:

7284 West Palmetto Park
Rd, Suite 302-S, Boca
Raton, Florida 33433

EDMUNDO RODRIGUEZ, PE

ELECTRICAL SUPPORT



Mr. Rodriguez is a Senior Electrical Engineer with over 10 years of experience delivering electrical infrastructure projects for public agencies, including the MDWASD and PRASA. His experience includes the design and rehabilitation of electrical systems for water and wastewater facilities, with expertise in power distribution, backup power, N+5 redundancy systems, electrical instrumentation and controls, and SCADA integration. He has served as Electrical, Instrumentation, and Controls Engineer of Record on multiple treatment plant improvement and rehabilitation projects within the past five years and routinely coordinates with electric utilities to support successful project execution, including early planning for utility constraints, coordination requirements, and construction lead times with FPL and PREPA/LUMA.

Electrical and I&C Engineer of Record, Vieques WWTP Power Distribution System and Microgrid Project, PRASA, Vieques, PR | Project scope included the evaluation, design, and integration of a power distribution system and microgrid to enhance resiliency and operational continuity at the plant. Work encompassed electrical load analysis, assessment of existing and future plant demands, and development of a microgrid solution incorporating photovoltaic generation, battery energy storage systems, emergency standby generation, and utility interconnection. The scope included upgrades to medium and low voltage distribution systems, coordination of protection and control schemes, SCADA power integration for monitoring and control, and utility coordination to support islanding operations and reliable transition between grid connected and off grid modes. The system was designed to improve reliability, reduce outage risk, and support continuous plant operations under emergency conditions.

Electrical Engineer of Record, Rehabilitation of Quebradillas WTP and RWI, PRASA, Quebradillas, PR | Full replacement and reconfiguration of electrical systems at the Quebradillas Water Treatment Plant and Raw Water Intake while maintaining continuous operations. Scope included extension of approximately 1,000 feet of overhead electrical transmission lines, installation of a new 38 kV substation and 4.16 kV distribution substations, construction of a new electrical room, new MCCs, and plant wide electrical and instrumentation and controls upgrades. The project integrated a microgrid system consisting of 2,532 photovoltaic modules, two 4 MWh battery energy storage system units, grid tied generation, and utility interconnection, with controls configured to support monitoring, islanding operations, and multi-source coordination. The scope included evaluation of 1.7 km of 4 kV OE distribution lines using thermographic imaging to identify hotspot conditions, equipment deficiencies, and potential failure risks under normal operating conditions.

Electrical Engineer of Record, Las Bocas WTP Rehabilitation, PRASA, Barranquitas, PR | Scope entailed engineering services for the repackaging and redesign of the Las Bocas Water Treatment System, including the Raw Water Intake, Intermediate Tank, and main Treatment Plant. The scope focused on the technical review, modification, and certification of previously approved electrical and I&C plans to remove selected equipment improvements and simplify the SCADA and control architecture to meet revised budget constraints. Responsibilities included validation of electrical distribution and MCC modifications, emergency generator integration, revised PLC and SCADA schemes, and associated instrumentation, in compliance with NEC and PRASA standards.

Electrical and I&C Engineer of Record, Viéques WWTP Feasibility Study Conceptual Design of Solar Panel Backup, PRASA, Vieques, PR | Feasibility study evaluating a 48-hour solar and battery backup solution for the Vieques WWTP. Scope included electrical load analysis, conceptual layouts for 2,556 photovoltaic modules, integration of an existing 1,008-module PV system, evaluation of BESS sizing, and assessment of required upgrades to substations, generators, and utility interconnections to identify the most cost-effective resiliency solution.

EDUCATION:

BS, Electrical Engineering,
Florida International
University

YEARS OF EXPERIENCE:

10

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (91400)

OFFICE LOCATION:

2307 Douglas Rd #503,
Miami, FL 33146

DANIEL STEVENSON, PE

ELECTRICAL SUPPORT



Mr. Stevenson has over 18 years of experience in the design and implementation of electrical power distribution and control systems for water and wastewater projects. His diverse project experience includes tasks involving detailed electrical power design; detailed electrical lighting design; detailed control panel design; PLC programming; Human Machine Interface (HMI) application development; wireless, wired and fiber optic network design and deployment; SCADA system design, development and integration; as well as control system testing and troubleshooting.

Electrical Project Lead, Arbennie Pritchett WRF Expansion, Okaloosa County, FL | Tasks included electrical engineering design, electrical construction administration, PLC and central HMI programming, and integration of new process equipment into the plant SCADA system in support of the facility expansion from 10 to 15 MGD. Responsibilities included serving as the lead Electrical and I&C engineer during the early design phases up to the 60% level, prior to turnover to the design-build contractor, and providing I&C construction coordination with the design-build team and subcontractors. The scope also included PLC programming using Allen-Bradley CompactLogix PLCs and RSLogix 5000 to control, monitor, and integrate a new 5 MGD process train into the existing 10-MGD facility, including oxidation ditch aerators and mixers, a new RAS/WAS pump station, and expansion of the UV system with a third disinfection channel and new effluent pump. All HMI programming was completed in Wonderware to support monitoring and control of the new systems, followed by startup, testing, and commissioning to fully integrate the equipment into the plant SCADA system.

Project Lead, SSRUS & Gulf Breeze WTP Automation, Gulf Breeze, FL | Tasks included Master Control Panel and RTU design, construction, programming, and central HMI graphical development to monitor and automate two water booster stations and their associated water towers. Responsibilities included serving as the lead I&C engineer; performing all detailed instrumentation and control system design, including RTUs at two water plants and a remote water tower reporting to a centralized PC-based SCADA system; coordinating I&C construction with the client's electrician and plant manager; and completing all PLC and local HMI programming to control and monitor booster pumps and associated instrumentation such as chlorine, pH, flow, and pressure. The scope also included creation and configuration of the SCADA workstation running Indusoft Webstudio 8 (now Aveva/Wonderware), development of the SCADA application to meet client monitoring and control requirements, and execution of all startup, testing, and commissioning activities for the new control systems.

Project Lead, Garniers Re-Pump Control System Rehabilitation, Okaloosa County, FL | Tasks included RTU design, construction, programming, graphical development, and implementation for the pressure-controlled sewage re-pumping station.

Electrical Project Lead, Decatur Utilities Dry Creek WWTP Mixing, Heating and Dewatering, Decatur, AL | Tasks included serving as the Lead Electrical and I&C Engineer, performing detailed electrical, instrumentation, and control system design, and providing full electrical/I&C construction administration, including contractor coordination, submittal review, and inspections. Responsibilities also included PLC programming using Allen-Bradley CompactLogix and RSLogix 5000 to control and monitor mixing, heating, and sludge processing equipment, along with HMI programming in Iconics Genesis 64 to integrate new systems into the plant SCADA. The work concluded with startup, testing, and commissioning of all control system components to ensure reliable operation.

Electrical Design Lead, Wells 6 & 7 and Treatment Plant 3, City of Perry, GA | Served as electrical design lead for the design of all electrical power distribution and instrumentation and control systems, including power circuits, MCCs, variable speed drives, lighting, emergency power, SCADA, and I&C. Responsibilities also included coordination with other disciplines, development of construction documents, and ensuring compliance with applicable codes, standards, and owner requirements.

EDUCATION:

MBA, University of West Florida

BS, Electrical Engineering, University of Florida

YEARS OF EXPERIENCE:

18

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (74633)

Licensed Electrical Contractor:
Florida (EC13009514)

OFFICE LOCATION:

1988 Lewis Turner Blvd,
Unit 3, Fort Walton
Beach, FL 32547

ZACHARY JONES, PE

ELECTRICAL SUPPORT



Mr. Jones has over 10 years of Electrical Engineering experience for the water and wastewater markets. His expertise encompasses the design and implementation of electrical system improvement and SCADA projects for water and wastewater treatment plants across the State of Texas. Additionally, he has experience in Electrical Engineering for the Department of Homeland Security Transportation Security Administration with Design of security checkpoint screening equipment.

Electrical Design Engineer, Shoal River Ranch WRF, Okaloosa County, FL | Provided Electrical design for a new Water Reclamation Facility for the County. The design entailed a new 480V, 3-phase, 3-wire electrical distribution to the plant. The new distribution system included a new electrical building with a new service entrance rated main circuit breaker, automatic transfer switch, motor control center, active harmonic filter and a 1250kW, 480V, 3PH emergency back-up generator located outside of the electrical building. The emergency backup generator was sized to provide emergency power to pre-determined electrical loads during a loss of utility power for Phases I and future Phase II. Mr. Jones performed routine calculations such as electrical load calculations, short-circuit calculations, voltage drop calculations, and lighting calculations to determine sizes of electrical equipment, conductor, and conduit. During the project, Mr. Jones worked closely with the Process Mechanical and I&C teams to locate instrumentation and process equipment to ensure proper power and controls interconnections were correct based on the P&IDs.

Electrical Design Engineer, Oberly and Washington Terrace Generator Replacement, City of St. Petersburg, FL | The City of St. Petersburg owns and operates the Oberly and Washington Terrace Pump Stations. Each Pump Station is equipped with 2000kW, 4160V diesel standby generators. The existing generators are reportedly severely underloaded and have had various maintenance issues resulting in decreased reliability on the overall electrical system. Mr. Jones assessed the electrical load on the existing generator at each pump station. The assessment was provided in a preliminary engineering report which described necessary modifications to the associated electrical distribution system and provided recommendations for upgrade of generator equipment at both stations that would ensure increased reliability at maximum system efficiency. Additionally, the assessment involved evaluating the City's curtailment agreement with Duke Energy making a recommendation to the City on whether to continue with their agreement or to discontinue it. The design phase of the project only involved the Washington Terrace Pump Station, where Mr. Jones provided design to replace the existing generator with a new generator sized properly for the current and future pump station flows. All new medium and low voltage power and control conductor runs will be replaced associated with the generator.

Electrical Design Engineer, Canyon Regional Water Authority (CRWA), Wells Ranch II Emergency Generator Project, TX | The Wells Ranch II Emergency Generator Project is an electrical improvements project for CRWA. Previous projects at four of its existing facilities, intended to provide generator backup power, were left incomplete due to improper sizing of the electrical infrastructure that could have resulted in dangerous situations if the generators were called to duty during a loss of the normal utility power source. Mr. Jones evaluated and designed various improvements to each facility to ensure that the back-up power equipment installed at each facility will function as intended and will meet all code requirements to keep the facilities in service during a loss of utility power. Improvements at the facilities involved replacement of existing 480V distribution equipment such as ATS and main breakers. Improvements also required providing and installing new conductors and conduit runs between main breakers, ATS, and generators at each site to meet NEC code requirements.



EDUCATION:

BS, Electrical Engineering,
Lamar University

YEARS OF EXPERIENCE:

10

REGISTRATION / CERTIFICATION:

Professional Engineer:
Texas (148799)
Utah (13492417-2202)
Montana (PEL-PE-LIC-88008)
Oregon (103201PE)

OFFICE LOCATION:

12400 Coit Rd, Suite
300, Dallas, TX 75251

FREEMAN BASS, PE

POWER SYSTEMS & FPL COORDINATION



Mr. Bass is a Principal Electrical Engineer for CMA's Electrical Engineering team, and will provide electrical engineering services for this contract. Mr. Bass has experience working on various aspects of electrical engineering design, plan preparation, permitting and construction oversight while working in a project team environment. His experience includes overhead and underground transmission design; overhead and underground distribution design; transmission and distribution modeling and simulation; lighting design; communication design layout; substation physical layout; protection & control wiring; and substation physical layout. He also prepares estimate of probable cost including quantity takeoffs. Mr. Bass' working relationships with the electrical utility providers will be very beneficial to help streamline the coordination of electrical system needs, helping to maintain or accelerate project delivery.

Engineer of Record, WWTP Switch Station 60 Removal, Orlando, FL | Engineer of Record for the removal of an existing switch station consisting of 20 HPL switches. The project included reconfiguration of underground electrical circuits and replacement of live-front pad-mounted switches with dead-front switchgear throughout the WWTP to improve safety, reliability, and operational flexibility.

Engineer of Record, Flavor Room Expansion, Jacksonville, FL | Engineer of Record for a new service facility supporting a flavor room expansion, including three-phase pump systems, lighting analysis, and power distribution design. The project required reconfiguration of existing 480V service panels to support new process loads while maintaining operational continuity.

Engineer of Record, World Drive North Ph. 3, Orlando, FL | Engineer of Record for relocation of three existing electrical feeders and associated duct bank systems along World Drive. The work included approximately 30,000 LF of power cable, 22,000 LF of duct system, and 55,000 LF of fiber optic cable to support future roadway and infrastructure improvements.

Engineer of Record, LS Generator Replacements, Riviera Beach, FL | Engineer of Record for replacement of emergency generators at three lift stations and the addition of emergency backup power at two additional lift stations. The project enhanced system resiliency and ensured continuous wastewater service during power outages.

Engineer of Record, Poly and GF Temporary Chiller Service, Orlando, FL | Engineer of Record for installation of four 1,500 kVA transformers and reconfiguration of existing transformer loops to support temporary chiller operations. The design ensured adequate capacity and redundancy to meet short-term cooling demands without disrupting permanent electrical infrastructure.

Engineer of Record, FW Live Front to Dead Front Switch Replacement, Orlando, FL | Engineer of Record for replacement of fourteen live-front pad-mounted switches with dead-front switchgear. Circuit reconfiguration was performed to improve system safety, increase operational flexibility, and support future load growth.

Engineer of Record, B110/B5/B90, Orlando, FL | Engineer of Record to add emergency power systems at multiple buildings across a campus. The project included generator integration, electrical distribution upgrades, and coordination with existing facilities to ensure seamless emergency operations.

Engineer of Record, Butler Generator, Jacksonville, FL | Engineer of Record for the addition of emergency power at the Butler Substation. The work improved power reliability and supported critical infrastructure by providing backup generation during utility outages.

Engineer of Record, Live Front-Dead Front Phase 2, Orlando, FL | Engineer of Record for replacement of fourteen existing live-front switches with dead-front switchgear. This phase further enhanced system safety and standardized switchgear configurations across the electrical network.



EDUCATION:

BS, Electrical Engineering,
University of Florida

YEARS OF EXPERIENCE:

10

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (87828)

OFFICE LOCATION:

500 W Cypress Creek
Rd, Suite 600, Ft
Lauderdale, FL 33309

CHAD MORRIS, PE

LEAD SCADA /I&C ENGINEER



Mr. Morris has over 26 years of experience as a technical expert providing process instrumentation, control, communication, and SCADA consulting through all phases of water and wastewater treatment, distribution, and collection systems. His experience includes planning, design, construction, field services, and equipment startup. Engineering management experience includes determining design requirements with clients, managing estimate for electrical and I&C designs, coordinating, and managing electrical and I&C design engineers, sub-consultants, the client, and other engineering disciplines.

Instrumentation QA/QC Engineer, Lovegrove WTP Electrical Upgrades, JEA, FL |

Instrumentation QA/QC Engineer for the upgrades to the JEA Lovegrove WTP. This project includes demolishing and relocating electrical equipment from the HSP building to a new air-conditioned electrical building. The new electrical building will house a new MCC, new ATS, new variable frequency drives, new lighting panelboard and transformer, new PLC, new network rack and a new operator workstation. The project will include a new generator docking station based on JEA's requirements for generators 500 kW and above. The new electrical building and the pump building will be provided with new security access control equipment. The project also includes evaluating the need for replacing the generator and minor modifications to the building.

Electrical and I&C QA/QC Engineer, Monterey WWTF Improvements, JEA, FL |

Electrical and I&C QA/QC Engineer for the design of the improvements to the JEA Monterey WWTF. This project includes a new electrical utility service, a new electrical building with new automatic transfer switches, switchboards, MCCs, VFDs and panel boards, new diesel engine standby generator, grounding and lightning protection. The project also includes wiring and conduits and new control panels for various plant improvements including improvements to the SBR basins, addition of a new influent pump station, upgrades to the existing centrifuges and distribution to existing plant equipment such as UV structure and effluent pump station.

Instrumentation Engineer, Fleming Island WWTF Electrical Upgrades Evaluation & Basis of Design (BOD), Clay County, FL |

Instrumentation Engineer for the evaluation of all major facility components at the Fleming Island WWTF. Following the evaluation, Ardurra developed the basis of design report for the proposed new electrical and instrumentation systems and other miscellaneous improvements. The BOD report encompasses a range of critical tasks to enhance facility functionality and safety. This includes upgrading lightning protection, replacing booster pump starters, upgrading panels at the chemical building with fiberglass reinforced plastic enclosures, addressing degraded conduit and wire with schedule 80 PVC, and improving ground connections.

I&C Engineer, Baytown WWTP and Lift Station SCADA Addition, City of Baytown, TX |

Led the design and implementation to add SCADA system infrastructure for the City of Baytown's sewer collection system, encompassing 87 lift stations and three wastewater treatment plants. Oversaw preliminary and final design phases, including condition assessments, hardware/software evaluations, process control narrative development, and creation of a SCADA masterplan with a Capital Improvements Plan. Directed two design packages focused on upgrading control panels, instrumentation, network architecture, and electrical infrastructure. Developed SCADA HMI and PLC programming standards to ensure conformity on all existing and future projects.

I&C Engineer Manager, Dallas Water Utilities, Eastside WTP Filter to Waste and Electrical Improvements; Dallas, TX |

Managing I&C engineering, SCADA programming and configuration for filter rehabilitation project including filter to waste control with increased filter automation; and managed I&C engineering for the plant wide Power Management Control System. System will monitor all electrical distribution and motor protection relays in real time to allow for complete electrical analysis, equipment troubleshooting, and provide data to engineering to enable them to perform energy management. The projects are currently in construction.

EDUCATION:

BS, Electrical Engineering,
Arizona State University

YEARS OF EXPERIENCE:

26

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (96666)

OFFICE LOCATION:

1341 W Mockingbird Ln Suite
310W, Dallas, TX 75247

HENRY PULIDO, PMP

SCADA /I&C SUPPORT



Mr. Pulido is a Control and Instrumentation engineer, project management specialist, project management professional and master's student in renewable energies with experience in multiple industries and conceptual, basic, and detailed engineering designs of the control systems and the instrumentation based on international standards and the client's requirements.

Control and Instrumentation Engineer, Tribalwide SCADA Services and Telemetry Improvements, Seminole Tribe of Florida, FL | Provided design, installation, and system integration for the Seminole Tribe of Florida's water and wastewater SCADA system across multiple reservations. Led upgrades to lift station electrical and SCADA standards, implemented telemetry for high-priority lift stations, and optimized wireless communications through radio propagation studies. Developed a Tribalwide SCADA Hardening Master Plan to deliver a secure, reliable, and scalable network supporting seven water and wastewater treatment plants, improving operational efficiency, remote monitoring, and infrastructure security.

Control and Instrumentation Engineer, Vieques WWTP Improvements, Vieques, PR | Comprehensive design for the Vieques WWTP, replacing aging 0.5 MGD steel-ring units with two 0.3 MGD Bardenpho BNR treatment systems and upgrading headworks, septage receiving, and pump stations. Designed plant infrastructure for corrosion resistance and storm resilience, incorporating equipment redundancy and safety improvements. Integrated a photovoltaic system with Tesla Megapack battery backup to provide up to 48 hours of independent operation, enhancing reliability, resiliency, and service life of the remote facility.

Control and Instrumentation Engineer, Quebradillas WTP Improvements, Quebradillas, PR | Engineered electrical, automation, and power system upgrades for the 5.0 MGD Quebradillas WTP, including a new emergency generator and integration of a 1 MW PV system with battery backup for 48-hour off-grid operation, improving reliability, resiliency, and operational efficiency.

Control and Instrumentation Engineer, Rehabilitation of 4 Wastewater Pump Stations, North Region, PR | These pump stations are located in various municipalities within the North Region of Puerto Rico. The design includes the replacement of electrical equipment such as power and control panels, emergency generators, and transformers, along with the corresponding electrical designs.

Control and Instrumentation Engineer, Las Bocas WTP Rehabilitation, PR | The Las Bocas system comprises three stations: the Intake, the intermediate tank, and the WTP. The designs have been completed for the replacement of electrical equipment, including MCCs, generators, panels, and lighting systems. All related electrical designs for the plants have been included.

Control and Instrumentation Engineer, Modernization of WTP La Ayurá, EPM, Medellín, CO | Provided detailed engineering design for the modernization of the La Ayurá Water Treatment Plant to improve overall treatment process performance and reliability. Responsibilities included development of control and instrumentation designs for upgraded water treatment processes, selection and specification of field instruments, preparation of control narratives, P&IDs, and I/O lists, and integration of new instrumentation with plant systems. Led the upgrade and migration of the existing SCADA system to a new Distributed Control System (DCS), including system architecture design, network layout, control strategy development, and coordination to ensure seamless transition with minimal operational disruption.

Control and Instrumentation Engineer, Basic Engineering Design of WWTP of the Municipality of Mocoa City, Bogotá, CO | Responsibilities included development of the overall control system architecture, instrumentation philosophy, and preliminary I&C specifications to support reliable and resilient plant operations. The scope encompassed identification and selection of field instrumentation, preparation of P&IDs, control narratives, I/O lists, and integration requirements for SCADA and plant automation systems.



EDUCATION:

MS, Renewable Energies,
The School of Engineering,
Science and Technology of
the Rosario University

Project Management
Specialist, Distrital University
Francisco Jose De Caldas

Control And Instrumentation
Engineer, Distrital University
Francisco Jose De Caldas

YEARS OF EXPERIENCE:

17

REGISTRATION / CERTIFICATION:

Project Management
Professional (PMP): 3441046

OFFICE LOCATION:

Calle 75 #8-34, Piso 2,
Bogotá, Colombia

OLGA MATVIENKO, EI

ELECTRICAL SUPPORT



Ms. Matvienko provides electrical engineering support for water and wastewater infrastructure projects, assisting with the design and coordination of electrical power, instrumentation, and control systems. Her experience includes supporting the development of electrical plans, specifications, and equipment layouts for treatment facilities, pump stations, and utility infrastructure. She works closely with process, mechanical, and civil engineers to ensure electrical systems are properly integrated with facility operations and meet applicable codes and industry standards.

Electrical Engineer, Shoal River Ranch WRF, Okaloosa County, FL | Provided Electrical design for a new Water Reclamation Facility for the County. The design entailed a new 480V, 3-phase, 3-wire electrical distribution to the plant. The new distribution system included a new electrical building with a new service entrance rated main circuit breaker, automatic transfer switch, motor control center, active harmonic filter and a 1250kW, 480V, 3PH emergency back-up generator located outside of the electrical building. The emergency backup generator was sized to provide emergency power to pre-determined electrical loads during a loss of utility power for Phases I and future Phase II.

Electrical Engineer, Land O' Lakes WWTP Expansion Progressive Design Build, Pasco County, FL | Electrical Engineer for a progressive Design-Build project to increase the capacity of a 3.5 MGD WWTP to 5.0 MGD. Ardurra is the prime engineer on the project which includes a new headworks and grit removal system, new biological reactor basins, additional clarifiers, filter rehabilitations, biosolids handling improvements and major electrical and I&C upgrades. The plant is being designed to achieve advanced water treatment (AWT) quality effluent.



EDUCATION:

BS, Electrical and Electronics Engineering, Omsk State Technical University (OSTU)

YEARS OF EXPERIENCE:

Engineering Intern

REGISTRATION / CERTIFICATION:

N/A

OFFICE LOCATION:

4921 Memorial Hwy, Suite 300, Tampa, FL 33634

MIKHAIL IANUSHENKO, EI

SCADA /I&C SUPPORT



Ms. Matvienko provides electrical engineering support for water and wastewater infrastructure projects, assisting with the design and coordination of electrical power, instrumentation, and control systems. Her experience includes supporting the development of electrical plans, specifications, and equipment layouts for treatment facilities, pump stations, and utility infrastructure. She works closely with process, mechanical, and civil engineers to ensure electrical systems are properly integrated with facility operations and meet applicable codes and industry standards.

Electrical Engineer,, Blacks Ford WRF Expansion, JEA, FL | Expansion of the Blacks Ford WRF from 6 to 12 MGD. Work included evaluation, design, and construction phase services for this expansion. The project includes replacing existing screens with mechanical center-flow band screens, adding two BNR trains, and installing three new secondary clarifiers. Other improvements involve adding membrane disk filters, a new UV disinfection system, and additional effluent transfer capacity. Biosolids at the facility are aerobically digested to meet Class B standards and dewatered via centrifuge. Comprehensive electrical systems upgrades were incorporated for all new and modified systems.

Electrical Engineer, Land O' Lakes WWTP Expansion Progressive Design Build, Pasco County, FL | Electrical Engineer for a progressive Design-Build project to increase the capacity of a 3.5 MGD WWTP to 5.0 MGD. Ardurra is the prime engineer on the project which includes a new headworks and grit removal system, new biological reactor basins, additional clarifiers, filter rehabilitations, biosolids handling improvements and major electrical and I&C upgrades. The plant is being designed to achieve AWT quality effluent.



EDUCATION:

BS, Electrical and Electronics Engineering, Omsk State Technical University (OSTU)

YEARS OF EXPERIENCE:

1

REGISTRATION / CERTIFICATION:

Engineering Intern

OFFICE LOCATION:

4921 Memorial Hwy, Suite 300, Tampa, FL 33634

GINO VALDERRAMA, PE

HVAC/PLUMBING



Mr. Valderrama is a Senior Mechanical and Plumbing Engineer with more than 34 years of comprehensive experience in the design, management, and construction of complex municipal and vertical infrastructure projects. His background spans mechanical, electrical, plumbing, fire protection, structural, and civil systems, providing him with a multidisciplinary perspective essential for integrated design and coordination. Mr. Valderrama's expertise includes HVAC and plumbing system design, building code compliance, construction administration, and life-cycle cost optimization for public facilities. He has successfully led projects for airports, utilities, and municipal agencies across South Florida, providing technical leadership and client coordination to deliver compliant, and cost-effective engineering solutions.

Mechanical Engineer, Westwood Lakes Maintenance Facility, MDWASD, Miami, FL |

Responsible for developing HVAC design criteria, plans, specifications, and load calculations for the new electrical room, including an N+1 redundant air conditioning system and recirculating air filtration requirements in accordance with client standards. Services also included coordination of equipment layout with architectural and electrical disciplines, verification of constructability and maintenance access, and providing permitting support through responses to Authority Having Jurisdiction RFI's.

Mechanical Engineer, Chlorine Building: South District WWTP, MDWASD, Miami, FL |

Provided mechanical engineering services for the rehabilitation of the existing Chlorine Building, including system repairs, upgrades, and replacements. Prepared a technical memorandum to evaluate existing conditions, confirm the project scope, and establish design criteria. He assessed the existing ventilation system and developed new ventilation requirements to accommodate additional electrical heat loads, designing an optimized system that reused existing components to meet updated operational demands.

Mechanical/Plumbing Engineer, 36th Street Maintenance Facility Modernization, MDWASD, Miami, FL | Supports the modernization and expansion of the MDWASD 36th Street Maintenance Facility by performing evaluations and preparing conceptual plans for existing and proposed HVAC, plumbing, and fire protection systems. Responsibilities include developing design criteria, preparing technical recommendations for facility improvements, and supporting assessment and conceptual design phases by identifying required ventilation, water, and sanitary system upgrades in compliance with the Florida Building Code, applicable NFPA standards, and OSHA requirements.

Senior Mechanical Engineer, Miami International Airport Re-Roofing, Miami-Dade Airport Department (MDAD), Miami, FL |

Responsible for the evaluation, relocation, and replacement of mechanical, plumbing, and fire protection systems in support of the 400,000 square foot re-roofing of the Miami International Airport terminal. Responsibilities included assessing existing conditions, developing phasing strategies to maintain continuous operations, coordinating with architectural, structural, and electrical teams, and ensuring compliance with Florida Building Code, applicable NFPA standards, and Miami Dade aviation design criteria, while reviewing equipment layouts to optimize performance and constructability.

Senior Mechanical Engineer, MIA North Terminal Gate Relocation, MDAD, Miami, FL |

Senior Project Engineer responsible for Mechanical, Plumbing and Fire Protection System evaluation, relocation, and replacement for relocation of five gates and addition of a sixth gate in Concourse D at MIA.

Senior Mechanical Engineer, A/E Services for Capital Renewal and Replacement Projects, City of Miami Beach Facilities Management, Miami Beach, FL |

Provided professional engineering services in support of the City's Capital Renewal and Replacement Program, delivering facility renewal and system replacement projects focused on proactive upgrades to critical building systems, including HVAC, roofing, and fire protection, as well as minor repair and renovation efforts. Work included restroom facility improvements, performing HVAC and plumbing design, interdisciplinary coordination, and construction phase engineering support.



EDUCATION:

Juris Doctor, University of Miami

BS, Mechanical Engineering, Florida International University

YEARS OF EXPERIENCE:

34

REGISTRATION / CERTIFICATION:

Professional Engineer: Florida (58792)

OFFICE LOCATION:

2307 Douglas Rd #503, Miami, FL 33146

ANA DVORAK, ENV SP

PROCESS MECHANICAL



Ms. Dvorak is experienced in planning design, assessment, simulation and evaluation of water, wastewater and reclaimed water treatment facilities, distribution and collection systems; pump stations; water resources management; water quality analysis; stormwater infrastructure design; processes control & instrumentation and SCADA systems. Ms. Dvorak is also experienced in project budgeting, scheduling, coordination of multidisciplinary teams, public outreach and stakeholder coordination. She has also worked developing environmental resources management systems and environmental impact assessment studies. In addition, Ms. Dvorak has experience in Disaster Recovery projects including development of hazard mitigation strategies, definition and design of hazard mitigation projects and hazard mitigation grants (FEMA 404 and 406 programs).

Engineering Manager, SCADA Services, Seminole Tribe of Florida (STOF), FL | Engineering Manager for the Tribalwide SCADA services project being executed for the STOF's Public Works Department. As part of this project, Ardurra is assisting the STOF in the updates of their lift station standard guidelines to include new SCADA and Electrical requirements. Ardurra is also assisting the STOF in the implementation of a radio communication network and SCADA upgrades for the integration of the lift stations into the Brighton Reservation current SCADA system. As part of this task Ardurra is providing project and construction management services, design services for the upgrades of 9 lift station in the reservation, permitting assistance, SCADA integration services and project certification.

Project Engineer, Water Treatment & Distribution System Lightning Protection Assessment MDWASD, Miami, FL | Served as Project Engineer for a comprehensive lightning protection and system vulnerability assessment of MDWASD's critical water treatment and distribution assets. Led and supported field inspections of three major water treatment plants, intermediate storage facilities, booster pump stations, and remote wellfields. Evaluated existing lightning protection systems and electrical grounding to identify risks to operational reliability and asset integrity. Prepared site condition inspection reports, vulnerability and consequence-of-failure analyses, and risk matrices to prioritize mitigation measures. Developed recommended action plans, planning-level cost estimates, and preliminary design concepts to support implementation of system resilience and risk reduction improvements.

Project Manager, W-2 Water Booster Pump Station Rehabilitation, Engineering and Design Services, Miami Beach, FL | Project Manager for the engineering, design, permitting, bid support and engineering services during construction for the W-2 Water Booster Pump Station Rehabilitation project. The project includes the replacement and relocation of process piping and isolation valves (ranging from 12" to 24" in diameter), installation of new intake/discharge 24" water main, installation of new 3 ton crane and trolley system, structural modification of the pump station building, replacement of 3 pump and motors, hardening and resiliency upgrades (accessibility upgrades, flood and impact protection pump station and electrical buildings envelope, upgrades to the ventilation and air conditioning system to comply with current building codes and replacement of on-site generator.

Project Manager, Bayshore Park Water Main and Force Main Replacement, Miami Beach, FL | Project Manager for the engineering, design, permitting, bid support and engineering services during construction for the replacement of a 20" water main and 30" force main within the Bayshore Park project area. Developed and implemented an expedited project schedule in close coordination with the City to comply with the sensitive timeline. Ardurra was able to develop 90% design drawings and technical specifications for the replacement of approximately 850 LF of 30" force main and 1200 LF of 20" water main within 8 weeks. Moreover, permits were obtained in less than 90 days, with the water main extension being approved in 24 hours. During the bidding phase, Ms. Dvorak coordinated with the City's CIP department to consolidate the pipeline replacement technical specifications with the Bayshore Park project specs under the City's CIP 50 Divisions Standard.

EDUCATION:

MS, Civil Engineering,
University of Miami

BS, Chemical Engineering,
Simón Bolívar University

YEARS OF EXPERIENCE:

9

REGISTRATION / CERTIFICATION:

Envision Sustainability
Professional (ENV SP)

OFFICE LOCATION:

1000 NW 57th Ct Suite
800, Miami, FL 33126

MANASI PAREKH, PE PROCESS MECHANICAL



Ms. Parekh is a Process Mechanical Engineer who provides technical support on water and wastewater treatment plant electrical improvement projects. She contributes to all aspects of project delivery, including mechanical system evaluation, process support for electrical upgrades, hydraulic and equipment analysis, coordination with design and construction teams, permitting, and support during bidding and construction phases. Her expertise ensures that process systems integrate seamlessly with upgraded electrical infrastructure for safe, reliable, and efficient plant operations.

Project Manager, Lovegrove WTP Electrical Upgrades, JEA, FL | Project Manager for the improvements project at the Lovegrove WTP. The Lovegrove WTP was originally constructed in 1972 and has a FDEP permitted capacity of 8.31 MGD at MDF. The Lovegrove WTP has one on-site and two off-site production wells that pump raw water to an aeration pipe to two 1 MG ground storage reservoirs that operate in series. Sodium hypochlorite is added upstream of the HSP. The sodium hypochlorite injection pumps, storage tank and controls are housed in a covered concrete containment facility on the west side of the treatment plant site. The site was previously unpermitted due to the age and size of the plant site. Recently, the City of Jacksonville deemed the land to be within an impaired basin. Ms. Parekh led the permitting process for the City of Jacksonville Planning and Development Department.

Project Engineer, Anastasia Island WWTF Improvements, St. Johns County, FL | Multiple evaluation, design, and construction efforts at the AI WWTF. Her work included comprehensive evaluation of treatment processes using process and hydraulic calculations and a BioWin model, followed by design and implementation of improvements to the headworks, influent and effluent pump stations, biological processes, reuse system, and UV disinfection facilities. The projects addressed recurring equipment failures, upgraded screening and pumping systems, replaced and added electrical and instrumentation components, and converted the facility from sodium hypochlorite to UV disinfection based on lifecycle and qualitative evaluations of multiple suppliers.

Project Manager, Hastings WTP Expansion, St Johns County, FL | Project Manager for the design, permitting, bidding, and engineering services during construction for the expansion of the RO system to 0.66 mgd with 4 RO skids (3 Duty, 1 standby). The expansion also includes electrical building modifications, the addition of three new high service pumps with VFDs and associated electrical equipment, a new degasifier, new sodium hypochlorite skid and storage, and a new 400kW generator with belly tank and new ATS.

Project Engineer, 118th Street Pump Station Rehabilitation, JEA, FL | The 118th Street Master Pump Station (PS 5104), underwent comprehensive rehabilitation. As a Class IV quadplex pump station with a firm capacity of 13,700 GPM (19.7 MGD) at 64-feet TDH, it received new pumps, upgraded yard piping, and extensive superstructure rehabilitation. Upgrades encompassed emergency generator, electrical, instrumentation, HVAC, potable water, and plumbing systems. Additionally, new wet-well mixing and odor control systems were installed, along with lift system enhancements and generator replacements. Junction manhole restoration completed the project, modernizing and improving station functionality.

Project Engineer, Barefoot Trace Lift Stations Improvements, St. Johns County, FL | Provided professional engineering services for the full renovation and modernization of Barefoot Trace Lift Station in St. Johns County, FL. Scope included site elevation above the 100-year floodplain, wetwell rehabilitation, new mechanical and electrical components, SCADA upgrades, and site access improvements. Responsibilities encompassed preparation of construction documents and permitting coordination to meet current St. Johns County standards.

Task Lead/Project Engineer, Blacks Ford WRF Expansion, JEA, FL | Ardurra is providing evaluation, design, and construction-phase services to expand the Blacks Ford WRF from 6.0 MGD to 12.0 MGD. The project includes new mechanical band screens, two BNR trains, three secondary clarifiers, membrane disk filters, a UV disinfection system, added effluent transfer capacity, and biosolids handling improvements to support advanced reuse water production.



EDUCATION:

MS, Environmental Engineering Sciences, University of Florida

BS, Chemical Engineering, University of Mumbai, India

YEARS OF EXPERIENCE:

7

REGISTRATION / CERTIFICATION:

Professional Engineer: Florida (95301)

OFFICE LOCATION:

405 Golfway West Drive, Suite 201A, St. Augustine, FL 32095

TED HORTENSTINE, PE COST ESTIMATING



Mr. Hortenstine has over 38 years of experience in environmental engineering, with extensive expertise supporting water and wastewater treatment plant operations. For electrical improvement projects, he provides process mechanical engineering support, including evaluation and modification of treatment processes, coordination of mechanical systems with electrical upgrades, equipment assessments, and ensuring integration of process systems with upgraded plant electrical infrastructure. He has supported a wide range of projects in Florida, including treatment facility upgrades, pump and conveyance modifications, and process optimization efforts.

Lead Process Engineer, Monterey WWTF Improvements, JEA, FL | Lead Process Engineer for the hydraulic and process evaluation, design, permitting, bidding, cost estimating and construction support services for improvements to the Monterey WWTF. The project includes a new influent pump station/screening structure, Sequencing Batch Reactor (SBR) improvements, sludge holding, dewatering and truck loading improvements, effluent pump station improvements, effluent equalization rehabilitation, electrical and storage building improvements, new emergency generator, operation building improvements, and miscellaneous site improvements.

Process Engineer, Blacks Ford WRF Aerator Replacement, JEA, Jacksonville, FL | Process Engineer for the design, bidding, and services during construction for the replacement of the existing aerators with new, larger OVIVO aerators in the oxidation ditch. Because the process basins needed to remain in service, Mr. Hortenstine worked closely with the contractor to develop a lifting and rigging plan to remove and replace the aerators. As a result of replacing the aerators, the Blacks Ford WRF has observed a significant increase in the amount of oxygen that can now be supplied to the process.

Engineer of Record, Pembroke Pines East Wastewater Treatment Plant, Pembroke Pines, FL | The City of Pembroke Pines contracted with a design build firm to provide engineering contracting services for several City projects. Provided the design and permitting of the 12 MGD wastewater treatment plant and disposal facilities. This plant was a new 12 MGD plant on a green field site. Conceptual design included process selection, hydraulic profile development, site layout, equipment selection and layout, material specification, equipment data sheets, process and instrumentation diagrams, electrical riser diagrams, and structural layout.

Lead Design Engineer, Anastasia Island WWTF Reuse System Improvements, St. Johns County, FL | The project includes replacement of existing end suction in-plant process water pumps and hydropneumatics tank with new horizontal split case pumps and variable frequency drives. The existing vertical turbine reuse transfer pumps will be replaced along with the installation of yard piping, valves, and appurtenances and electrical and instrumentation including VFDs and pressure transmitters.

Lead Mechanical Engineer, Riverside Lift Station Improvements, St Johns County, FL | Lead Mechanical Engineer for the renovation of the Riverside Lift Station, which is one of the primary lift stations on Anastasia Island. The project consisted of the structural renovation of a dual-wetwell system along with the coating of the interior surfaces with SpectraShield. The project also included the renovation of the emergency electrical generator, the installation of a two-stage biofilter odor control system, wetwell ventilation system, replacement of isolation valves and piping, site improvements and controls. The pump station was designed to pump 1,200 GPM at 88 feet TDH.

Lead Mechanical Engineer, Various Lift Station Improvements, St Johns County, FL | Lead Mechanical Engineer for the renovation of twelve lift stations ranging from 300 to 700 GPM. The projects generally consisted of conversion from above ground suction lift pumps to submersible pumps, which required the structural replacement of the above ground concrete covers with new covers and access hatches. The project also included the replacement of the pumps with submersible pumps and associated equipment, the replacement of above ground piping and valves, the coating of the interior surfaces with SpectraShield, and the replacement of electrical and control components to allow monitoring remotely through the SCADA system.



EDUCATION:

BS, Chemical Engineering,
Auburn University

Post Graduate Studies,
Environmental Engineering,
University of Central Florida

YEARS OF EXPERIENCE:

38

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (41029)

OFFICE LOCATION:

405 Golfway West
Drive, Suite 201A, St.
Augustine, FL 32095

CAMRYN SWAIN, PE CIVIL ENGINEER



Ms. Swain is a Civil Engineer specializing in stormwater management and drainage design, with experience supporting water and wastewater infrastructure projects. Camryn contributes to all phases of project delivery, including engineering design, hydraulic and hydrologic analysis, coordination with electrical and process disciplines, permitting support, bid-phase services, and construction support. Her experience includes evaluating site drainage and stormwater impacts associated with electrical facility upgrades, preparing technical calculations and exhibits, and assisting with regulatory coordination to ensure compliance with local, state, and utility requirements.

Civil Engineer, Peter's Creek WWTF Expansion, Clay County Utility Authority, FL | Civil Engineer for the site/civil and stormwater design for the conversion of an existing 0.2 MGD wastewater package plant into a new greenfield water reclamation facility with a capacity of 1.5 MGD AADF. Ms. Swain assisted with the design of drainage and stormwater elements to support an ultimate buildout capacity of 10 MGD, as well as developing stormwater models of the existing and proposed sites and preparing and submitting the Environmental Resource Permit for the initial phase of the project.

Civil Engineer, Lovegrove WTP Electrical Upgrades, JEA, Jacksonville, FL | Civil Engineer for the improvements project at the Lovegrove WTP. The Lovegrove WTP was originally constructed in 1972 and has a FDEP permitted capacity of 8.31 MGD at maximum daily flow (MDF). The Lovegrove WTP has one on-site and two off-site production wells that pump raw water to an aeration pipe to two 1-MG ground storage reservoirs that operate in series. Sodium hypochlorite is added upstream of the high-service pumps (HSP). The sodium hypochlorite injection pumps, storage tank and controls are housed in a covered concrete containment facility on the west side of the treatment plant site. The site was previously unpermitted due to the age and size of the plant site. Recently, the City of Jacksonville deemed the land to be within an impaired basin. Therefore, Ms. Swain prepared permitting applications for the City of Jacksonville Planning and Development Department. She also developed hydrologic and hydraulic models of the site improvements. Improvements included adding a new driveway, enhancing site drainage, installation of new piping to replace vitrified sewer piping, and the design of a dry detention pond.

Site/Civil Engineer, Regional Integrated Loop Phase 3C Pipeline Interconnect Design-Build, Peace River Manasota Regional Water Authority, FL | Site/Civil Engineer for the greenfield Booster Pump Station portion of the Regional Integrated Loop Phase 3C Pipeline project. The project included a new access road, two electrical buildings (one future and one proposed), a booster pump station with room for future expansion, chemical storage building, generator, two 5 MG ground storage tanks (one future and one proposed), one future reclaimed water booster pump station, one future sanitary sewer master pump station, and a stormwater detention pond. Ms. Swain assisted in the development of the paving, grading and drainage plans as well as the hydrologic stormwater mode.

Site/Civil Engineer, Shoal River Ranch WRF Expansion, Okaloosa County, FL | Site/Civil Engineer for Phase 1 of the Shoal River Ranch WRF greenfield project. She designed the yard piping, driveways, and grading for Phase 1 and assisted in the design and calculations of the stormwater conveyance and containment system for Phases 1 through 4. The project includes planning for future expansion up to 10 MGD across four phases. Phase 1 treats 1.25 MGD and comprises of the headworks facility with screening and grit removal, two biological treatment basins that contain 4-stage biological treatment, final clarifiers, and sludge holding, a chlorine contact chamber, an effluent pump station, rapid infiltration basins (RIBs), administration building for maintenance, office, operations, and lab, a chlorine building, and an electrical building with an exterior generator and fuel tank. Ms. Swain incorporated all these proposed components to produce civil drawings, specifications and permit applications.

EDUCATION:

MS, Biosystems Engineering,
Auburn University

BS, Biosystems Engineering,
Auburn University

YEARS OF EXPERIENCE:

5

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (99382)

OFFICE LOCATION:

405 Golfway West
Drive, Suite 201A, St.
Augustine, FL 32095

VINCENT KELEMAN

CIVIL ENGINEER



Mr. Keleman's design experience includes preparation of sections, profiles, and details. Mr. Keleman works closely with engineers as well as other design professionals throughout the design process, provides design input, attends meetings with clients, and performs construction observation at the engineer's request. He is proficient in the latest AutoDesk and Civil3D software and can provide guidance and training to staff engineers and designers.

Civil Engineer, Jax Beach Substation Replacement of 26.4kV Breakers, Jacksonville, FL | Engineering design services were provided for the replacement of eleven 26.4-kV breakers that had reached the end of their service life at the Jax Beach 138/26.4-kV Substation. The scope included replacement of six feeder breakers, two capacitor bank breakers, two transformer low-side breakers, and one bus-tie breaker. Associated protection and control equipment was also replaced, including SEL-351S relays and SEL-487V relays for capacitor bank protection. Services included preparation of design drawings, development of relay settings, and preparation of double test plans. Commissioning support was provided, including relay testing and functional operation verification, while the breaker manufacturer performed on-site, equipment-specific testing. The replacement breakers were RMAG-style units, improving reliability and long-term maintainability of the substation.

Civil Engineer, Lightning Protection Plan and Standards. City of Clearwater, FL | An evaluation was performed of existing lightning protection systems at one lift station, one well site, one water treatment plant, one water reclamation facility, and one reclaimed water booster pump station. Existing lightning protection materials and installation methods were documented, and new standardized details were developed for City use. The effort resulted in the creation of six new standard details and one technical specification to support consistent design, installation, and maintenance practices. Assistance was also provided with development of a written Request for Bids for contractors qualified to perform lightning protection maintenance and installation services.

Civil Engineer, Sarasota Bay Resiliency Initiative, Bayfront Park Seawall, City of Sarasota, FL | The project replaces approximately 1,500 LF of Bayfront bulkhead with a raised concrete cap at +4.0' NAVD88 to address sea level rise and updated flood protection standards. CMA's scope includes grading and drainage adjustments, hardscape replacement, tree protection, landscape architecture and irrigation design, and electrical and lighting upgrades. Through coordinated multidisciplinary design, CMA is delivering a cohesive, resilient solution that integrates the elevated seawall with the surrounding park, revitalizing Sarasota Bayfront Park while preserving its character and accessibility.

Civil Engineer, Circuit 680 69kV Underground Reconductor, Miami-Dade County, FL | Design services were provided for the replacement of an underground 69-kV transmission cable between the Kennedy Substation and an existing transmission riser pole, spanning approximately 1,400 feet. Due to the requirement to keep the new cable installation entirely within the City of Jacksonville right-of-way in a residential neighborhood, detailed plan and profile drawings were developed in Civil 3D for a directional drilled installation. The Polywater Pull Planner was used to analyze cable pulling tensions and confirm constructability, ensuring the proposed conduit alignment—including curved ("snaked") sections between the substation and the prefabricated manhole—would not present installation issues.

Consulting for School Zone Speed Equipment Installations, RedSpeed USA, Jacksonville, FL | Civil engineering and landscape architecture services are being provided to support RedSpeed USA's deployment of automated school zone speed enforcement technology throughout Florida. The project involves implementation of a new safety-focused product requiring coordination with local municipalities, school districts, and state agencies. Detailed, site-specific design and construction documents are prepared using high-resolution aerial imagery, field verification, and roadway and right-of-way data to ensure constructability and regulatory compliance. Services include layout and placement of equipment foundations, signage, and associated site improvements; evaluation of existing site conditions; and preparation of complete permit application packages.



EDUCATION:

Palm Beach Community College

YEARS OF EXPERIENCE:

31

OFFICE LOCATION:

500 W Cypress Creek Rd, Suite 600, Ft Lauderdale, FL 33309

DONALD PHILLIPS, PE STRUCTURAL ENGINEER



Mr. Phillips has over 29 years of experience and serves as the Group Leader for the upstate South Carolina Ardurra office and as a Senior Project Manager for various civil and environmental projects. His involvement has included preliminary planning, detailed design, permitting, construction administration and project closeout. He is responsible for the design of water and wastewater treatment facilities, water distribution systems, sewer collection systems, and water and wastewater pumping stations. His experience also includes structural design for numerous types of facilities and structures, including steel, reinforced concrete, masonry, and marine/pile supported systems concentrating in water/wastewater, maritime, and industrial applications including experience in managing and coordinating projects with multi-discipline staff and multi-office activities.

Structural QA/QC Engineer, Peters Creek WRF Expansion, Clay County Utility Authority, FL | Performed a QA/QC review of the structural design for the Peters Creek WRF Expansion and Effluent Management project. Currently providing services engineering during construction for the new greenfield WRF with a capacity of 1.5 mgd AADF, with site planning that allows for future expansion to 10 MGD AADF. The WRF includes a new headworks structure with band screens, odor control, new biological treatment process using a 4-stage Bardenpho process, RAS/WAS pumping system, secondary clarifiers, filter splitter structure, tertiary filters, and chlorine contact basins for wastewater treatment.

Structural Engineer, Calls Creek Water Pollution Control Plant (WPCP) Expansion to 3.0 MGD, Oconee County, GA | Following the expansion of the Calls Creek WPCP to 1.5 MGD, Ardurra began the design to expand the plant to 3.0 MGD. Mr. Phillips is a project engineer supporting the structural design for the expansion. This project included modeling of 3-stage BNR with diffused aeration system, secondary clarifiers, filtration, sludge thickening, aerobic digestion, and dewatering. This process included model runs with chemical addition including lime and alum for phosphorus removal.

Structural Engineer, Villa Road Booster Pump Station, Greenville Water, SC | Provided structural engineering services including QA/QC reviews, detailed structural design, and design support for the booster pump station facility. Responsibilities included development of structural plans and technical specifications, coordination with the project team, and ensuring compliance with applicable codes and owner standards. Also performed construction administration services, responded to contractor inquiries, reviewed submittals, supported field activities, and assisted with project closeout documentation..

Project Engineer, WTP Expansion, Pflugerville, TX | Project Engineer responsible for the technical review of the preliminary engineering report for the expansion city's surface water treatment plant from 17.7 MGD to 30 MGD, with an ultimate buildout to 75 MGD. The project includes expansion of the existing lake pump station and high service pump station, adding a new pretreatment process that consists of coagulant using ACH, three-stage flocculation and high rate plate settlers to address raw water quality fluctuation, expansion of a submersible membrane system by retrofit, adding a new chemical facility (aluminum chlorohydrate, sodium hypochlorite, liquid ammonium sulfate), a new copper ion generation system for zebra mussel control, and new chlorine contact basin to reduce DBP formation and enhance disinfection CT compliance.

Structural Engineer, Facility Plan for South Cobb WRF Expansion and Upgrade, Cobb County, GA | Developed a comprehensive facility plan to guide capital improvements through 2040, supporting an expansion from 40 to 50 MGD. The project included process and hydraulic capacity assessments, condition evaluations, and treatment alternatives analysis to improve efficiency and resiliency. Ardurra prepared a phased capital improvement plan with cost estimates and implementation sequencing to ensure reliable long-term operation and compliance with future regulatory requirements. His responsibilities include structural assessment of existing process structures and support buildings at the WRF and evaluation of existing infrastructure for modification or reuse as required for WRF expansion and upgrade.

EDUCATION:

BS, Civil Engineering,
Clemson University

YEARS OF EXPERIENCE:

29

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (90218)

OFFICE LOCATION:

3 Linwa Blvd, Anderson,
SC 29621

JEFF TROUTMAN, PE STRUCTURAL ENGINEER



Mr. Troutman is a Structural Engineer with more than 37 years of experience delivering structural solutions for water and wastewater treatment facilities, pump stations, and critical utility infrastructure. His expertise includes the design of reinforced concrete process structures, deep below-grade pump stations, CMU and steel building systems, equipment foundations, and structural modifications to active treatment facilities. He provides comprehensive support from planning and design through construction, ensuring structures are resilient, constructible, and capable of supporting reliable treatment operations under demanding environmental and operational conditions.

Structural Engineer, Oldsmar WRF Control Building, Oldsmar, FL | Structural Engineer providing full structural design for a new 10,800 SF, two-story WRF Control Building which was awarded a Resilient Florida Infrastructure Grant. The building consisted of 8" reinforced load-bearing CMU walls with a 6" composite 2nd floor supported by composite steel beams and columns, which are supported by isolated concrete footings. Walls are supported by continuous wall footings. The roof consists of pre-engineered cold-formed steel roof joists with a metal roof deck. This project will replace the existing control building with a two-story structure to include storage on the first floor and a control center, conference room, offices, and lab on the second floor. The new facility is designed to meet or exceed minimum flood protection to provide continued wastewater treatment and regulatory compliance and ultimately protect public health during inclement weather conditions while also allowing operations staff to function onsite.

Lead Structural Engineer, Land O'Lakes WWTP Expansion, Pasco County, FL | Lead Structural Engineer for the design of new concrete structures as part of a plant expansion from 3.5 to 5 MGD. Structures include a headworks, anoxic and post anoxic basins, a clarifier, and a biosolids dewatering facility.

Structural Engineer, W.E. Dunn WRF Off-Site Reclaimed Pump Station Improvements, Pinellas County, FL | Providing structural engineering services for the design and construction of a new electrical building and expansion of the existing pump building, updating structural supports and roof hatches for vertical pumps and other ancillary structural improvements.

Structural Engineer, University of Florida WRF Filtration System Replacements, Gainesville, FL | Structural Engineer for development of Structural Modifications Plan, Sections, and Details for the replacement of the tertiary filtration system with a new cloth media disk filter system at the University's WRF.

Structural Engineer, West Brunswick WRF Oxidation Ditch Improvements, Supply, NC | Provided limited structural engineering services to prime designer for providing modifications to the existing Oxidation Ditch (Reactor Nos. 3 & 4) for installation of a new jet aeration system as part of the oxidation ditch and jet aeration improvements, which consisted of providing foundation mat slab supports for new blower pumps and manifold piping, new pipe penetration details thru the concrete walls and associated pier supports and relocation of the existing reactor access walkway stairs, including finite element analysis modeling of the existing reinforced concrete walls of the existing reactors for multiple pipe penetrations in close proximity.

Structural Engineer, Surf City Mainland Pump Station, Surf City, NC | Provided structural design, bid phase, and construction administration services for this new pump station. The pump station is 38' long, 28' wide, and 22' deep and also has a 480-sf pump house located directly over a portion of the pump station. The two-cell pump station is cast in place concrete supported on a mat foundation. The pump station consists of reinforced concrete walls and base slab and sized for hydrostatic, soil and buoyant loading conditions with approximately 22' placed below finished grade. The top of the tank has a flat plate, cast in place reinforced concrete slab, with multiple slab penetrations.

EDUCATION:

BS, Civil Engineering, North Carolina State University

YEARS OF EXPERIENCE:

37

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (57751)

OFFICE LOCATION:

3809 Peachtree Ave, Suite
102, Wilmington, NC 28403

RARES PETRICA, PE REGULATORY, PERMITTING, FUNDING AND GRANT MANAGEMENT



Mr. Petrica has over 24 years of experience in design permitting and construction management for stormwater, water, and wastewater infrastructure projects, spanning both private consulting and municipal government roles. He successfully managed and developed the City of Fort Lauderdale's \$200 million Master Plan Program over approximately 10 years. His contributions included developing the initial RFQ, selecting consultants, overseeing design and permitting for eight flood-prone neighborhood projects, and managing the construction of four neighborhood-wide stormwater improvement projects. Beyond his role in the stormwater master plan program, Mr. Petrica secured \$37 million in Florida Resiliency and DEO CDBG-MIT grants, significantly enhancing funding for these critical projects.

Program Manager, City of Fort Lauderdale Capital Investment Program (CIP), Fort Lauderdale, FL | Mr. Petrica managed the Stormwater CIP for the City of Fort Lauderdale, overseeing an annual budget of \$9–\$10 million. The program focused on constructing various stormwater improvements and retrofits citywide, prioritized within a five-year budgetary timeline. The design and permitting of CIP stormwater projects were carried out through a combination of in-house design and consultant continuing services contracts, both overseen by Mr. Petrica and his team. Additionally, he developed and implemented the Annual Stormwater Construction Contract, which facilitated the construction of the CIP stormwater improvements.

Program Manager, City of Fort Lauderdale Sewall Repair and Replacement Program, Fort Lauderdale, FL | Mr. Petrica served as Program Manager for the City of Fort Lauderdale's Seawall Repair and Replacement Program, overseeing the planning, design, permitting, and construction of critical shoreline infrastructure improvements throughout the city. In this role, he managed an annual program budget ranging from \$5 to \$7 million and coordinated a multidisciplinary team responsible for evaluating existing seawall conditions, prioritizing replacement projects, and delivering compliant and resilient waterfront structures. The program focused on replacing aging and functionally obsolete seawalls that were frequently overtopped during high tides, structurally deteriorated, or no longer watertight. Mr. Petrica led efforts to develop seawall designs that met current Broward County regulatory criteria and resiliency standards, ensuring that new structures addressed sea level rise considerations and improved flood protection for adjacent roadways, utilities, and private properties.

Program Manager, City of Fort Lauderdale Stormwater Masterplan, Fort Lauderdale, FL | As Program Manager, Mr. Petrica led the development and execution of the City of Fort Lauderdale's Stormwater Master Plan Neighborhood Improvements, a \$35 million design initiative. His responsibilities included developing the initial solicitation, selecting the design team, and overseeing the design and permitting process. He played a key role in all phases of the program, from data collection and public engagement to design, permitting, and close coordination with the consultant team and regulatory agencies. The program's scope encompassed citywide stormwater modeling and utility data collection, watershed planning, and the establishment of neighborhood levels of service (LOS). It also involved developing comprehensive engineering design plans based on modeling results to address chronic flooding, securing permits, managing construction implementation, and conducting community outreach to inform and gather feedback from residents affected by the proposed infrastructure upgrades. During the construction phase, Mr. Petrica led a team of project managers to ensure the successful completion of neighborhood-wide stormwater improvement projects. Over his tenure with the City, he oversaw the delivery of approximately \$175 million in stormwater infrastructure construction projects.

EDUCATION:

BS, Civil Engineering,
University of Florida

YEARS OF EXPERIENCE:

24

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (70972)

OFFICE LOCATION:

900 SE 3rd Ave, Suite 203,
Ft. Lauderdale, FL 33316

LESTER SANCHEZ

CONSTRUCTION INSPECTION



Mr. Sanchez has 22 years of professional experience providing Construction Management, Architecture and Engineering for multiple private and public construction projects throughout south Florida. Mr. Sanchez is thoroughly adept in coordinating, supervising and managing all construction stages of utilities and structural projects having served as Field Inspector, Assistant Project Engineer, Project Superintendent and Field Engineer Coordinator. He is experienced in monitoring and implementing Q/A and Q/C plants, inspections, complying with RFI's, reviewing shop drawings and specifications, coordinating between contractors and stakeholders, tracking and evaluating change orders, managing field staff, equipment, materials cost estimates, assisting with bidding processes, monitoring project schedules, and prepare various construction reports. He has dexterity utilizing AutoCAD, On-Screen Take off, Microsoft Project, Bluebeam Revu, Proliance and E-Builder, among others.

Project Field Inspector, MDWASD I&I/Dig & Replace and Manhole Restoration Contracts, Miami-Dade County, FL | Coordinating with Prime Contractor to resolve issues during ongoing manhole restoration. Mr. Sanchez was responsible for coordinating with Engineer of Record and the Department to resolve issues during manhole restorations; Reviewing Project Scope of Work, and Project Specifications; Reviewing shop drawings, Q/A plan, safety plan, material product data sheets, and equipment used prior construction; Attend pre-construction meetings to evaluate project construction; Monitored project manhole restoration, point repair construction progress, and generating daily field construction reports; Document all construction tasks and activities of contractors; And submitted daily field observation reports in E-Builder platform throughout the duration of construction.

Project Field Inspector, MDWASD, Various Construction Management Projects for Department Buildings and Related Facilities, Miami-Dade County, FL | Review project scope of work, specifications, and general covenants and conditions; Performed, assessed, and documented Pre-Construction job-site conditions and documented photos; Read and review shop drawings, Q/A and safety plan, RFIs, construction schedule, material product data sheets, and equipment used prior commencement of construction; Supervise project construction phases; Monitor project construction progress, generate daily field construction inspections, document construction field personnel tasks and activities, and submitted daily field observation reports; Responsible for Q/C during construction, ensured compliance with manufacturer's warranty, plans and project specifications; and evaluated contractor's monthly pay applications.

Assistant Project Engineer, Various Projects (City of Miami, City of Delray Beach, City of West Palm Beach, City of Miami Beach, Bimini-Bahamas Resorts), FL & Bahamas | Perform take-offs and prepare comprehensive manpower, equipment, and material project cost estimates during design; Reviewed project's specification & shop drawings documents; Generated bidding process and reviewed bidding RFIs; Evaluated proposed change orders; Evaluated existing concrete bulkhead structures, timber dock construction structural inspection integrity, generated field observation reports; Performed field inspections during construction to ensure structures were built according to approved plans and specifications; Performed final walkthrough with clients, contractor, and government entities to close-out permits; Gathered and reviewed close-out construction documents; Expedited permits; Assisted clients with concerns during construction; Assisted surveyor team to record new contour and elevation points from benchmark;

Project/General Superintendent, Steel Structure Erection & Miscellaneous Steel Structures, Manufacturing & Installation, Walmart, Mc. Donald's & Miami Design District, Various Cities South FL | Worked on various projects, planned, coordinated, and supervised, all field operations; Involved in core company activities such as quality assurance for the erection of steel structures; Participated on scheduled project site meetings; Coordinated daily crew personnel routes to project locations; Performed Q/C of erected steel structures prior signoff from Structural Engineer; Measured existing concrete structures for fabrication of new complimentary steel structure elements; Assessed and documented job site condition with photographs for equipment delivery, logistics and material staging areas.

EDUCATION:

BS, Technical Project Management, DeVry University

Certification for Fire Safety Preparation courses for Florida State License, Miami Dade Community College

AS, Degree Architectural Design and Construction Technology, Miami Dade Community College

YEARS OF EXPERIENCE:
22

OFFICE LOCATION:

1000 NW 57th Ct Suite 800, Miami, FL 33126

CREG DIEZGER

BIM/CAD



Mr. Diezger serves as CAD Manager for Ardurra, bringing extensive expertise in Autodesk Civil 3D, Autodesk Plant 3D, AutoCAD, InfraWorks, ReCap, as well as Adobe Photoshop, Illustrator, and Trimble SketchUp. He has taught at Autodesk University eight times, covering 14 topics based on his practical experience applying Autodesk software to complex engineering projects. His skills support projects including electrical and civil design for water and wastewater treatment facilities, pump stations, industrial plants, roadways, bridges, and utility systems, ensuring accurate design, modeling, and documentation throughout project delivery.

CAD Manager, Missoula International Airport, Missoula, MT | Provided CAD management and production support for airside and landside infrastructure improvements, including grading, utility coordination, and pavement layouts. Supported multi-discipline coordination and FAA-compliant drawing standards for airport capital improvement projects.

CAD Manager, Bozeman Yellowstone International Airport, Belgrade, MT | Led CAD standards implementation and plan production for runway, taxiway, and terminal-area improvements. Utilized Civil 3D and InfraWorks to support complex surface modeling, phasing, and coordination with airport operations.

CAD Manager, Yellowstone Airport, West Yellowstone, MT | Supported airport improvement projects through detailed CAD modeling, utility layouts, and construction document preparation in compliance with FAA and state aviation requirements.

CAD Manager, Sunnyside Gold Corporation, Silverton, CO | Delivered CAD production and visualization services for mining remediation and infrastructure projects, including site layouts, access roads, and utility coordination in environmentally sensitive areas.

CAD Manager, City of Missoula, Missoula, MT | Provided CAD management and plan production support for municipal infrastructure projects including roadways, utilities, and public facilities, ensuring consistency with City CAD standards and coordination across departments.

CAD Manager, Phase VA Tailings Dam Raise, Republic, WA | Supported detailed CAD modeling and drawing production for tailings dam expansion, including earthwork modeling, cross-sections, and construction sequencing drawings for a critical industrial facility.

CAD Manager, U.S. Forest Service / USDA Forest Service, Multiple National Forests (MT & ID) | Provided CAD and GIS-integrated drawing support for transportation, bridge, drainage, and utility improvements across multiple National Forests. Projects required strict adherence to federal drafting standards, environmental constraints, and coordination with multidisciplinary teams.

- Bitterroot National Forest, Ravalli County, MT
- Lolo National Forest, Missoula & Powell Counties, MT
- Deer Lodge County, MT
- Nez Perce National Forest, ID
- Flathead National Forest, MT

CAD Manager, Plum Creek, Wolf Creek Bridge, Kootenai National Forest, MT | Supported bridge layout and access road design through detailed CAD modeling, plan/profile sheets, and coordination with forestry and environmental requirements.

CAD Manager, Interceptor Sewer Project, Missoula, MT | Provided CAD support for large-diameter sewer alignment and profile development, utility conflict resolution, and construction documentation within constrained urban and environmental corridors.

CAD Manager, Rattlesnake Sewer SID, Missoula, MT | Developed Civil 3D models and construction drawings for sewer system improvements, including alignment optimization, profiles, and coordination with existing utilities and topography.



EDUCATION:

AAS Computer Aided Drafting, Technology, ITT Technical Institute

Survey Certificate, University of Wyoming

REGISTRATION / CERTIFICATION:

Autodesk AutoCAD Certified Professional

Autodesk Civil 3D Certified Professional

YEARS OF EXPERIENCE:

32

OFFICE LOCATION:

2471 S Titanium Pl,
Meridian, ID 83642

EDUARDO SUAREZ, PSM SURVEYOR



Recognized for his exceptional leadership, technical proficiency, and commitment to delivering top-tier surveying services, Mr. Suarez has successfully navigated complex projects in diverse sectors, including commercial, residential, transportation and infrastructure developments. Having established a reputation for quality, integrity, and client satisfaction, he has built and nurtured strong professional relationships. His collaborative approach ensures seamless coordination between multidisciplinary teams, driving projects toward successful outcomes. With a keen eye for detail and a passion for precision, he orchestrates the team's efforts with unwavering dedication.

Lead Surveyor, Alexander Orr WTP Laboratory Storm Shelter and Primary Control Center, Miami, FL | Provided SUE Designation services in accordance with ASCE standards, performing Quality Level "B" investigations using Electromagnetic Locators and Ground Penetrating Radar (GPR) to identify underground utilities within the survey limits. Soil conditions and site constraints were noted as factors affecting GPR accuracy, with utility lines depicted within two feet of their true horizontal positions. Quality Level "A" Soft-Dig services were conducted at ten locations, with data collected on the horizontal position, elevation, size, material, and direction of utilities. All locations were marked in the field and referenced to NAD83/2011 and NGVD29. Sunshine 811 coordination and VVH reports were also provided as part of the final deliverables.

Lead Surveyor, Central District WWTP Dewatering Building, MDWASD, Key Biscayne, FL | Provided construction surveying services for the Thickening and Dewatering Building at the Central District Wastewater Treatment Plant. The scope included locating visible improvements and utilities within the project limits, establishing permanent construction control in state plane coordinates and NGVD29 vertical datum, and re-establishing right-of-way lines through field recovery of centerline control and property corners. A digital terrain model (DTM) was created using a 20 foot grid, capturing elevations at key roadway and drainage features.

Lead Surveyor, Topographic Survey Central District WWTP, MDWASD, Key Biscayne, FL | Conducted a comprehensive topographic survey to locate all visible improvements within the project limits, including pavement, utilities, structures, signage, landscaping, and trees. The survey included utility record review, capturing rim, top, and invert elevations of sanitary and drainage structures, and establishing permanent control points in State Plane coordinates (NAD 83/2011) and NGVD 1929. Rights-of-way, easements, and property boundaries were surveyed, monumentation was recovered or re-established, and a Digital Terrain Model (DTM) was created using a 20 foot grid with elevations at key features.

Lead Surveyor, Alexander Orr WTP, MDWASD, Miami, FL | Performed a 3D Laser Scan, Boundary and Topographic Survey, and Quality Level B SUE Designation at the Alexander Orr Water Treatment Plant in Miami, FL. The scope included scanning the interior of the Engine No. 6 housing unit and documenting aboveground improvements, drainage features, utility inverts, and valve elevations. Control was established using MDWASD plant benchmarks, and a title review was completed using the provided commitment. Property corners, perimeters of key features, and Finished Floor Elevations (FFE) were recorded. A DTM was generated, and utility lines were shown per MDWASD CAD standards.

Lead Surveyor, North District WWTP Electrical Distribution Building No. 2, City of North Miami Beach, FL | Completed a survey at the North District Wastewater Treatment Plant located at 2575 NE 156th Street, North Miami Beach, FL. The team surveyed and marked four boring hole locations, providing precise Northing, Easting, and elevation data to the client. A detailed sketch was also prepared to accompany the legal description for the Florida Power & Light easement.



EDUCATION:

AA, Miami Dade College

YEARS OF EXPERIENCE:

40

REGISTRATION / CERTIFICATION:

Professional Surveyor and
Mapper:
Florida (LS6313)

OFFICE LOCATION:

7700 N Kendall Dr,
Suite 705, Miami, FL 33156

PAUL CATLEDGE, PE GEOTECHNICAL ENGINEER

PANGEO
CONSULTANTS



Mr. Catledge is a graduate of Louisiana State University with a BS in Civil Engineering, with over 22 years of engineering experience including geotechnical analysis, design and inspection of deep and shallow foundation systems, and structural design. Mr. Catledge also has seventeen 17 years of experience overseeing and performing construction materials testing and structural inspections. He is registered in multiple states including Florida, New York, Indiana, Texas, Kentucky, Michigan and Louisiana. He is a member of ASCE and a past President of the Broward Chapter of the Florida Engineering Society. He is a founding principal of PanGeo Consultants.

Geotechnical Engineer, Terminal 4 Expansion, Port Everglades, Ft. Lauderdale, FL | Plans called for the construction of new mooring bollards within the apron between Terminal 4 and Slip 2, a new canopy at the southwest side of Terminal 4 between the terminal and the parking garage, an approximately 30 foot tall arch at the parking garage northside driveway entrance, and a new tower structure at the southeast corner of Terminal 4. The exploration of subsurface conditions included the performance of Standard Penetration Test (SPT) borings, and review of the Broward County Soil Survey Map. Pan Geo was requested to perform a total of 7 Standard Penetration Test (SPT) borings (ASTM D-1586) in order to evaluate the subsurface soil conditions within the footprint of the proposed structure. The borings were performed to depths of forty to eighty feet below the ground surface.

Geotechnical Engineer, New Redundant Bypass Line, Ft. Lauderdale, FL | Provided geotechnical engineering services for the installation of a new sewage bypass line constructed using both horizontal directional drilling and open-cut methods, including performing Standard Penetration Test (SPT) borings in general accordance with ASTM D1586 to depths of approximately 80 feet and preparing a comprehensive geotechnical engineering report documenting subsurface conditions, engineering analyses, and site preparation and construction support recommendations for the proposed improvements.

Geotechnical Engineer, Margate Phase 2 Watermain Replacement, Margate, FL | Project involved the installation of new watermain to improve municipal water distribution and system reliability. Geotechnical services included performing Standard Penetration Test (SPT) borings in general accordance with ASTM D-1586 to depths of 8 feet, as well as on-site observations and soil sampling. Upon completion of field and laboratory work, a comprehensive engineering report was prepared, summarizing subsurface conditions, soil properties, and providing general site preparation and foundation recommendations to support safe and efficient construction of the watermain system. The geotechnical evaluation helped ensure proper trench design, structural stability, and long-term performance of the installed infrastructure.

Geotechnical Engineer, Proposed Pump Station, Southgate Blvd. & Stranahan River, North Lauderdale, FL | Project called for a new pump station at the C-14 Outfall, which is located at the NW corner of the City of North Lauderdale. The intent of the exploration was to identify any construction issues associated with the proposed pump station. The existing canal at the site to be backfilled with select fill and rock in order to prepare the foundation for the pump station as well as recommendations for proposed sheet piles. Project scope included field testing including soil borings, auger borings, laboratory testing and foundation recommendations.

Geotechnical Engineer, Pump Station A-16 Upgrade, Fort Lauderdale, FL | Project involved upgrades to Pump Station A-16, including installation of new force main and suction/discharge lines using both directional drilling and open-cut construction methods. The geotechnical scope included field investigations such as soil borings, in-situ testing, and laboratory analysis, providing critical data to develop foundation recommendations and support trench design, structural stability, and long-term performance of the upgraded station. The work ensured safe, code-compliant construction while minimizing risk to existing infrastructure and operations.

EDUCATION:

BS, Civil Engineering,
Louisiana State University

YEARS OF EXPERIENCE:

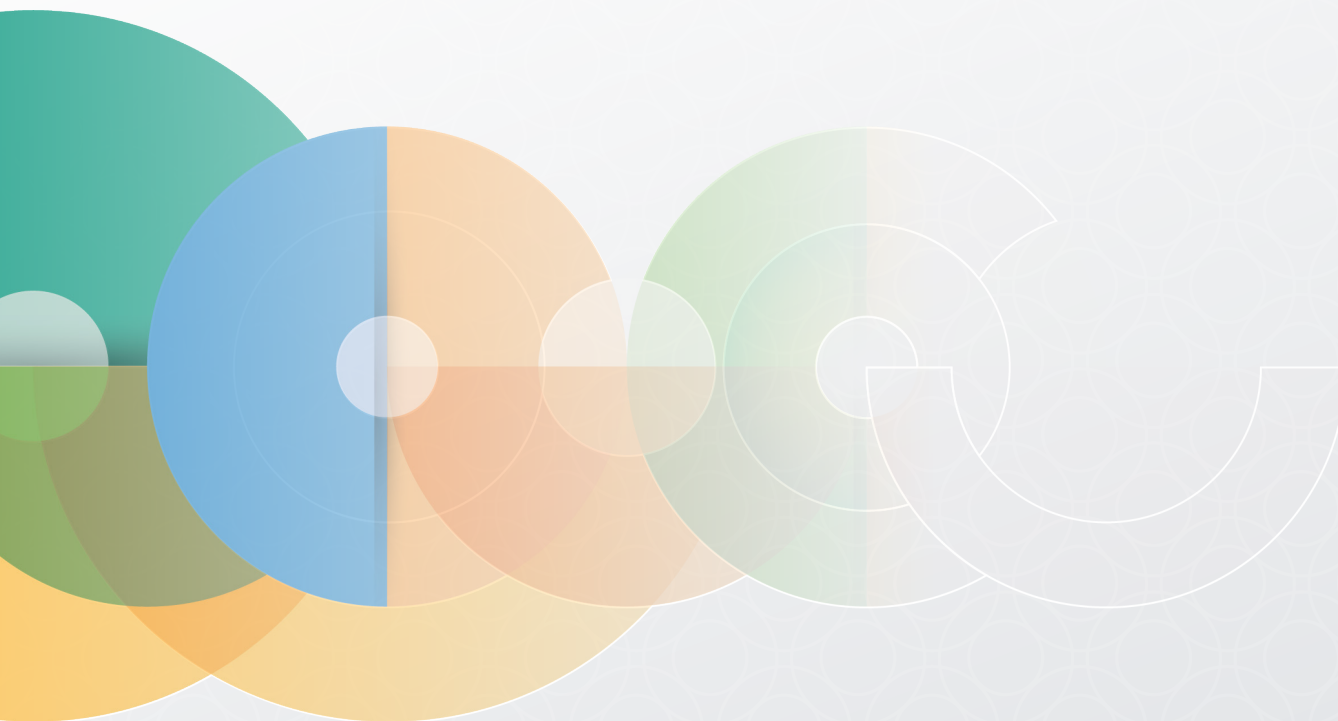
21

REGISTRATION / CERTIFICATION:

Professional Engineer:
Florida (68448)

OFFICE LOCATION:

8258 West SR 84
Davie, FL 33324



TAB 5 | NARRATIVE FOR CRITERIA

Narrative for Criteria

Criterion 1 A: Qualifications of Firms Including the Team Members Assigned to the Project

Our key team members bring a combination of the necessary technical expertise and experience, while also being locally vested in the work's successful delivery. Their familiarity with local conditions, and regulatory requirements allows them to respond quickly, coordinate effectively with agencies and utility partners, and proactively address challenges as they arise.

Technical Leads

Project Management

JEREMY KOCH, PE - PROJECT MANAGER



Years Experience: 29

- PM and/or Engineer for over 40 WTP/WWTP treatment facility improvement projects
- Experienced multi-discipline design leader
- Long time local Cooper City resident

ALEX NIZOV, PE - ELECTRICAL LEAD



Years Experience: 40

- 40 years of experience in electrical engineering for W/WW, specializing in power distribution and instrumentation systems
- Senior electrical oversight

DANIEL STEVENSON, PE - ELECTRICAL SUPPORT



Years Experience: 18

- Specializes in PLC programming, HMI development, and SCADA system design, integration, and troubleshooting
- Electrical and controls design

ANA DVORAK, ENV SP - PROCESS MECHANICAL



Years Experience: 9

- Planning, design, and evaluation of W/WW facilities
- Leadership in process evaluation, coordination, instrumentation, and SCADA systems for utility projects

VINCENT KELEMAN - CIVIL ENGINEER



Years Experience: 31

- Experienced in preparing civil design drawings including sections, profiles, and detailed plans
- Advanced use of AutoCAD and Civil 3D

DONALD PHILLIPS, PE - STRUCTURAL ENGINEER



Years Experience: 29

- 29 years of experience in the structural design of W/WW structures
- Provides senior planning and design through construction

FREEMAN BASS, PE - FPL POWER SYSTEMS



Years Experience: 10

- Electrical power systems design including transmission and distribution, lighting, and protection
- Supports design, cost estimating, and coordination

RARES PETRICA, PE - PERMITTING & GRANT MANAGEMENT



Years Experience: 24

- Managed large-scale municipal infrastructure programs and successfully obtained major resiliency and mitigation grants

TED HORTENSTINE, PE- COST ESTIMATING



Years Experience: 38

- Over 38 years supporting projects with detailed cost estimating and project budgeting
- Project planning, facility improvements, and coordination

Criterion 1A: Qualifications of Firms Including the Team Members Assigned to the Project (cont.)

Technical Advisors

AGATA RISTOW, PE - ELECTRICAL TECHNICAL ADVISOR  Years Experience: 17 17 years of experience supporting electrical system improvements and SCADA projects for W/WW - System upgrades, controls integration experience	DAVE RASMUSSEN, PE, BCEE - PROCESS MECHANICAL TECHNICAL ADVISOR  Years Experience: 17 Provides guidance on treatment process performance and the coordination of mechanical, electrical, and controls systems to support reliable facility operations
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Depth of Resources

Ardurra's staff brings additional experienced professionals to address surge staffing needs and contingencies with:

- 17 + Electrical engineering professionals focused on treatment facilities
- 19 + Instrumentation and controls professionals focused on treatment facilities
- 12 + Structural professionals supporting treatment facilities and buildings
- 50 + Process mechanical treatment focused engineers
- 50 + Mechanical, electrical and plumbing (MEP) professionals focused on supporting building facilities

Partner Team Member Sub-Consultants

To ensure more than adequate capacity and local knowledge is available and accessible to Cooper City we have brought key local engineering firms.

	- Working knowledge with Cooper City and across Broward County with the vast majority of agencies - Hands on current working experience directly for FPL with former FPL employees		
	- Locally available supporting electrical engineering 30 LOCAL staff members		- Locally available supporting electrical engineering 10 LOCAL staff members
	Local geotechnical engineering with Cooper City experience		Local surveying with Cooper City experience

Local Knowledge and Presence

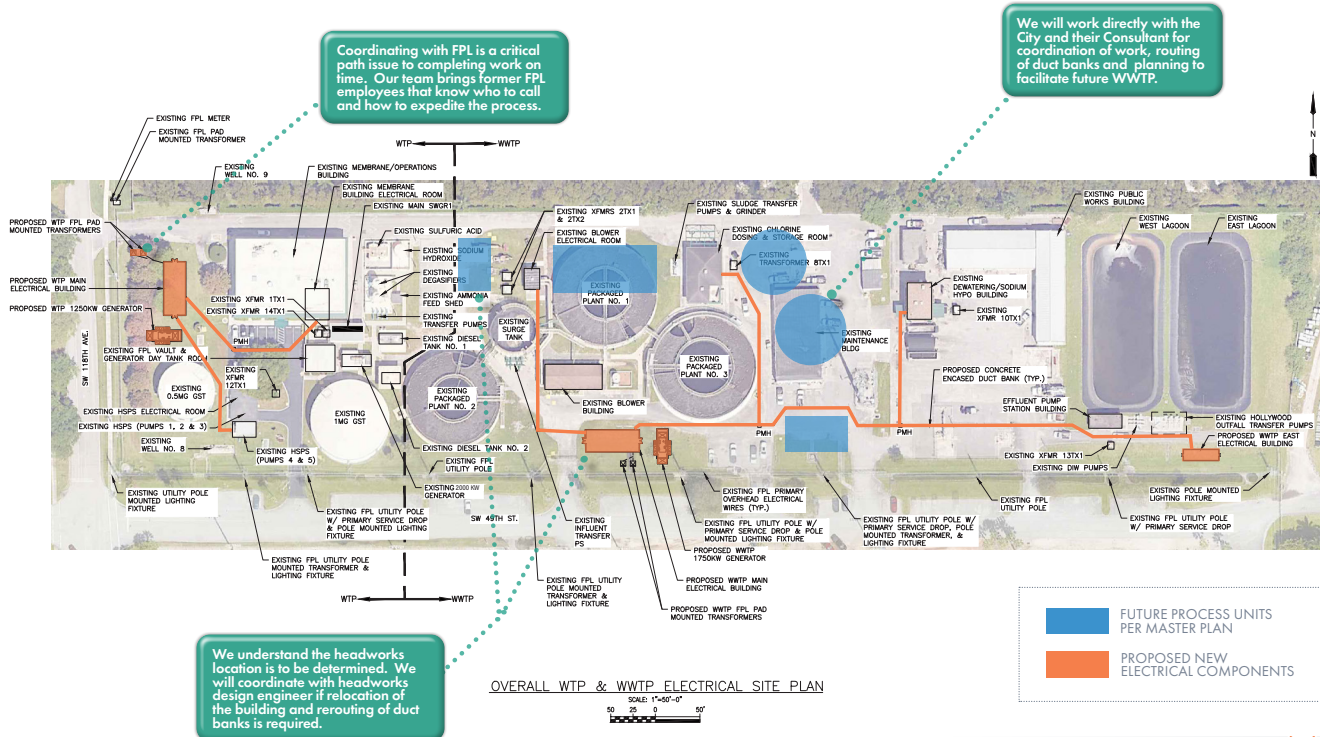
Our familiarity with City of Cooper City & Broward County regulations is about our local people and projects.

- Ardurra is the largest engineering firm headquartered in South Florida and focused on delivering drinking water and wastewater facilities as our core business
- 500 staff in Florida and 250 locally in South Florida
- Project management and technical leadership local to South Florida
- Hands-on permitting experience with Central Broward Water Control District
- Access to and working knowledge of FPL system and procedures with former FPL employees as team members
- Personally and professionally vested in the positive outcome of the project

Criterion 2A: Knowledge and Past Experience of Similar Type Projects

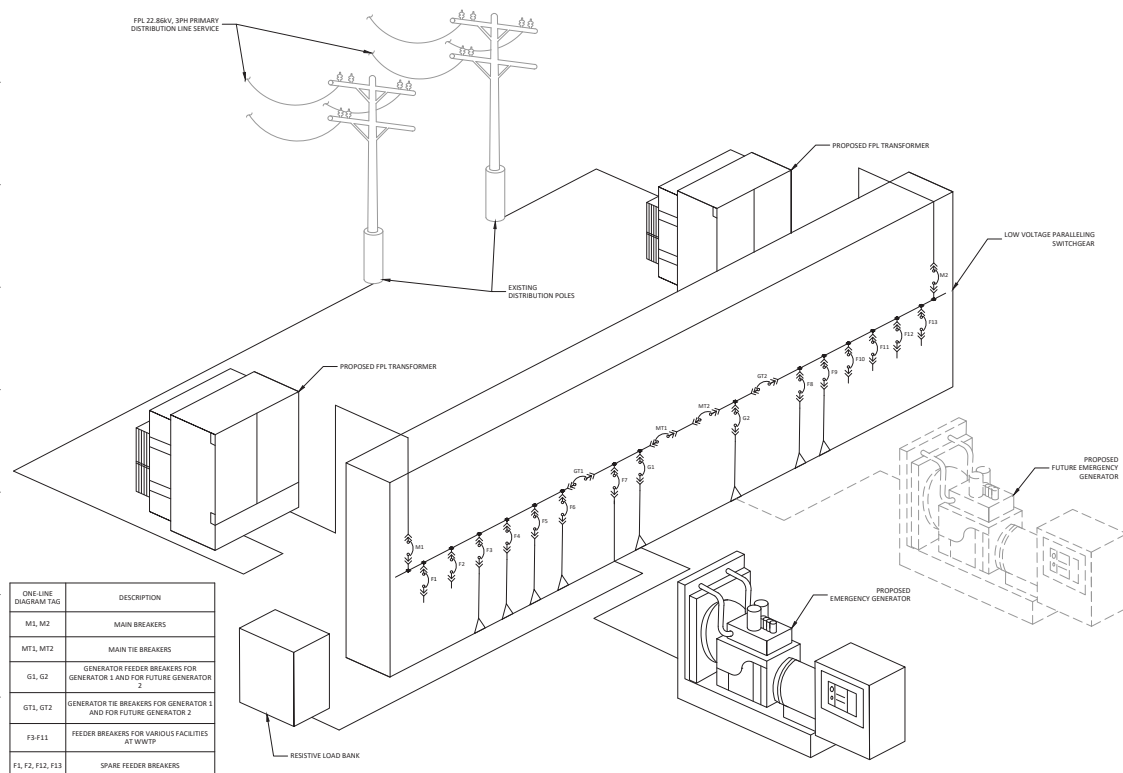
Planning for the Future

Ardurra's Site Electrical Layout accommodates flexibility for the future WWTP while giving Cooper City the level of reliability needed.



Improving Safety and Maintenance

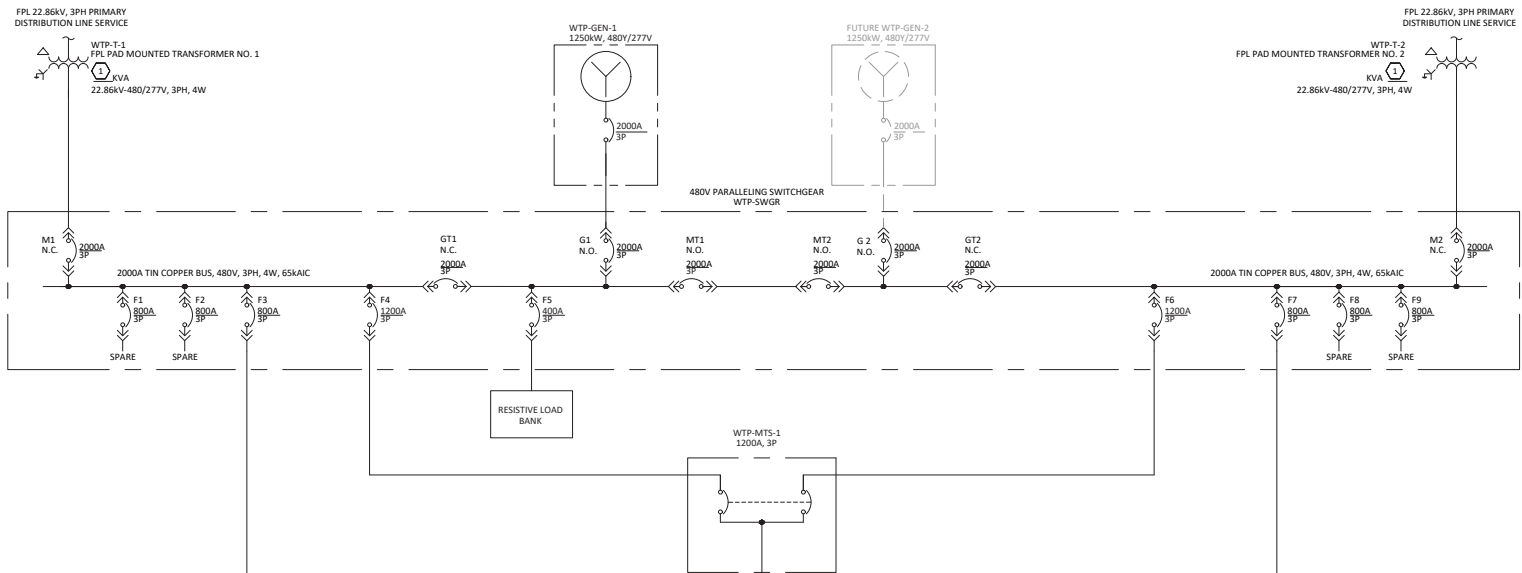
Ardurra's proposed Electrical On-Line Configuration (similar for WWTP and WTP) improves City's ability to maintain, access and repair with 480V substations from FPL.



Criterion 2A: Knowledge and Past Experience of Similar Type Projects (cont.)

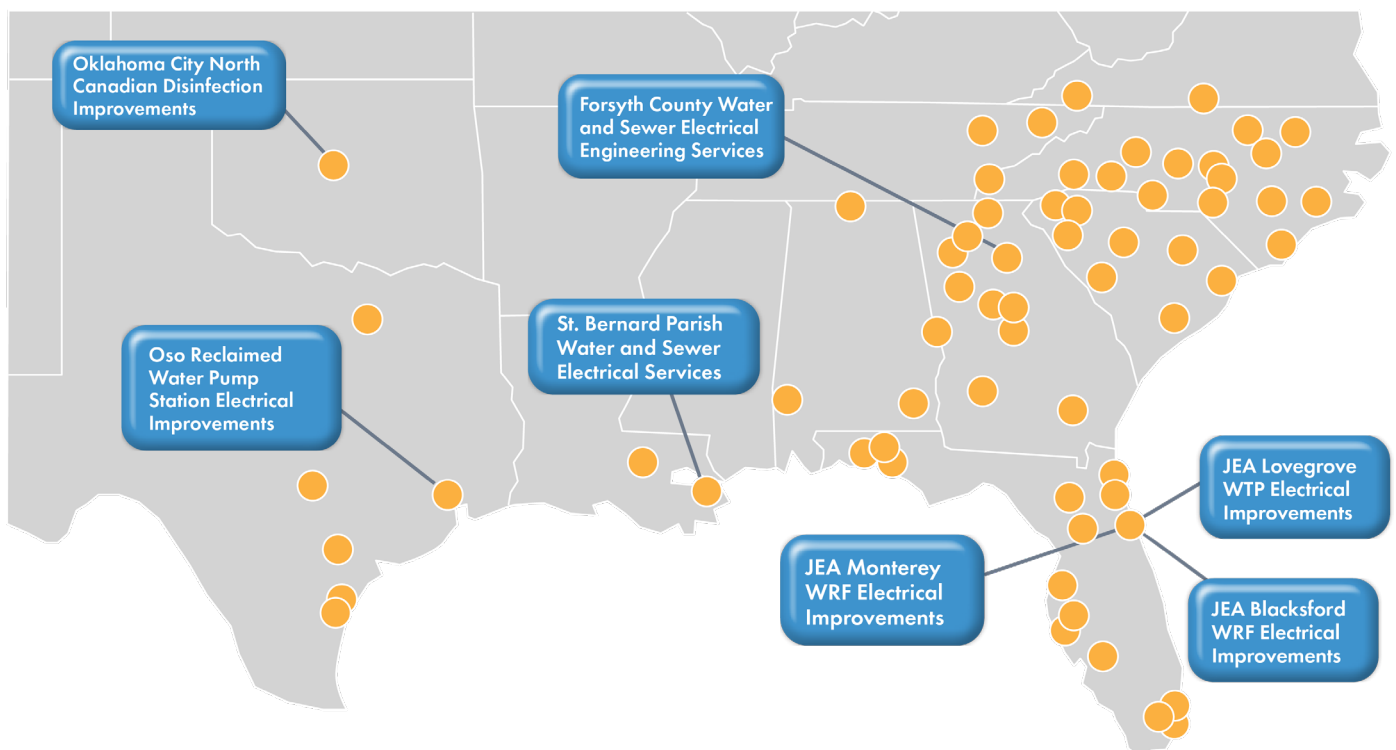
Planning for the Future

Ardurra's Electrical Configuration (similar for WWTP and WTP) Allows for Class 1 reliability with two FPL primary distribution line services and transformers.



Comprehensive Experience Across WTP and WWTP Facilities

Ardurra's comprehensive experience across WTP/WWTPs spans the Southeast, where the firm has successfully delivered a wide range of projects tailored to the region's regulatory requirements, environmental conditions, and infrastructure needs.



Criterion 3A: Past Performance for the Firms

Ardurra brings a strong working relationship of successful past project delivery with all of the firms presented! Our histories include collaborating in various sub and prime arrangements as best suits individual project and client needs.

- Ardurra & CMA – **City of Fort Lauderdale Inflow and Infiltration Reduction Program**
- Ardurra & Longitude – **City of Fort Lauderdale Neighborhood Stormwater Improvements Program**
- Ardurra & EDA – **Pinellas County Bayou Reclaim Pump Station Improvements**
- Ardurra & Green Dade – **WTP Upgrades for Quebradillas, PR**
- Ardurra & Pan Geo – **Pembroke Pines District 3A System Fire Flow Improvements**

Summary of Provided Project and Reference Experience

Our Team's work and reputation speaks for itself in the projects we have successfully delivered. We encourage you to contact any and all of the client contacts for the provided project experience to discuss our ability to navigate change and adapt to keep our clients priorities in focus.

LOVEGROVE WTP ELECTRICAL UPGRADES JEA, FL



- 8.3 MGD facility
- Comprehensive electrical systems and generator replacement of nearly 50-year old original equipment

PETERS CREEK WRF EXPANSION & EFFLUENT MANAGEMENT, CCUA, FL



- New facility with initial 1.5 and future 10 MGD capacity
- Complete multi-discipline design including Class 1 power reliability

VIEQUES WWTP ELECTRICAL IMPROVEMENTS, VIEQUES, PR



- Comprehensive replacement and expansion of 0.6 MGD facility
- All new electrical systems including solar power with battery storage

QUEBRADILLAS WTP UPGRADES QUEBRADILLAS, PR



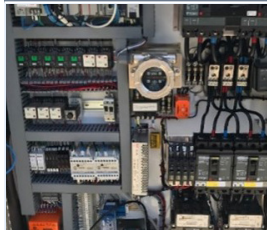
- Extensive electrical, power, and automation upgrades of 5-mgd facility including solar power with battery storage

CENTRAL DISTRICT WWTP IMPROVEMENTS (CT-3B) MDWASD, FL



- +143 MGD facility
- Electrical and demolition engineering and new substations to replace existing in support of new process systems

TRIBALWIDE SCADA SERVICES AND TELEMTRY IMPROVEMENTS, SEMINOLE TRIBE, FL



- Updated electrical and SCADA standards for all lift stations with new telemetry systems for high priority lift stations

FLEMING ISLAND WWTF ELECTRICAL UPGRADES CLAY COUNTY UTILITY AUTHORITY, FL



- Replacement of existing 1600-amp main circuit breaker, ATS, switchboard, three MCCs, and one power distribution panel

WESTPORT WWTP EXPANSION PORT ST. LUCIE, FL



- Electrical design portion only of facility expansion from 6 to 12 MGD. Design and construction in a 2-phase structure

Criterion 3A: Past Performance for the Firms (cont.)

WWTP SWITCH STATION 60 REPLACEMENT ORLANDO, FL



- Replace Switch Station consisting of two lineups with reconfigured 15-kV distribution system by extending two new feeders

RIVIERA BEACH WTP, FL



- Topographic and bathymetric survey in support of a new facility

BLACKS FORD WRF EXPANSION JEA, FL



- Comprehensive multi-discipline engineering for expansion of facility from 6 to 12 MGD
- Includes new 480V switchgear and generator

MARION COUNTY NORTHWEST REGIONAL WWTF EXPANSION, OCALA, FL



- Expansion of facility to 1.5 MGD
- Includes major electrical upgrades, new utility service, standby diesel generator, and Class I reliability

MDWASD WATER TREATMENT AND DISTRIBUTION SYSTEM LIGHTING PROTECTION ASSESSMENT, MIAMI, FL



- Assessed lightning protection vulnerability and needs at 3 WTPs, storage tanks, booster pump stations, and remote wellfields

Ardurra is a Top 20 Leader in Water and Wastewater Facilities

As a national leader in the delivery of WTP/WWTP projects across a wide range of sizes and technologies, our team brings the proven experience, technical expertise, and project management approach that the City of Cooper City expects.

We have successfully planned, designed, and implemented facility improvements from small to large plants, including process optimization, electrical and controls upgrades, facility expansions, and rehabilitation of aging infrastructure.

By combining strong technical capabilities with proactive coordination with regulatory agencies, utility staff, and stakeholders, we deliver practical, cost-effective solutions that maintain reliable operations while supporting long-term regulatory compliance and system resilience.

Our experience delivering complex treatment facility upgrades while maintaining continuous plant operations allows us to minimize risk and ensure smooth project implementation.



Criterion 4A: Ability of the Team Members to Interface with the County

Responsive In-Person Availability!

With the local availability of Project Management and Technical Leads the City can have same day access to address ongoing any urgent issue during design, permitting, procurement and construction. This is critical to ensuring:

- Project is delivered on time and within planned expectations
- Early issues resolution to avoid surprise change orders
- Rapid onsite decision making by knowledgeable professionals

Familiarity with City of Cooper City & Broward County Guidelines

Local Cooper City and Broward County residents and professional working experience are critical elements we used in structuring our team.

Project Manager (Jeremy Koch), City resident, is less than a mile from project site with previous hands on Cooper City project delivery experience.

- Permitting Lead (Rares Petrica) County Resident with long history of working collaboratively with County and local municipal agencies
- Technical design delivery professionals with experience delivery projects across Broward County, and for Cooper City

Communications

Our structured communication plan ensures that Cooper City and the Contractor remain integral members of the project team and are kept informed alongside the engineering and design team throughout the duration of the project. We establish clear communication protocols, regular coordination meetings, and defined points of contact to promote transparency and timely information sharing.

This collaborative approach allows project decisions, design updates, and potential challenges to be addressed quickly and efficiently, ensuring all stakeholders remain aligned with project goals, schedules, and deliverables.

Digital Support Tools

While we find in-person communication critical to project success, we also leverage digital tools to maximize the efficiency and accessibility of information sharing.

Our team utilizes cloud-based collaboration platforms, document management systems, and tools to ensure that project information, design documents, schedules, and updates are available to all stakeholders in real time. These tools support version control, streamline review processes, and allow team members to track comments and revisions efficiently.

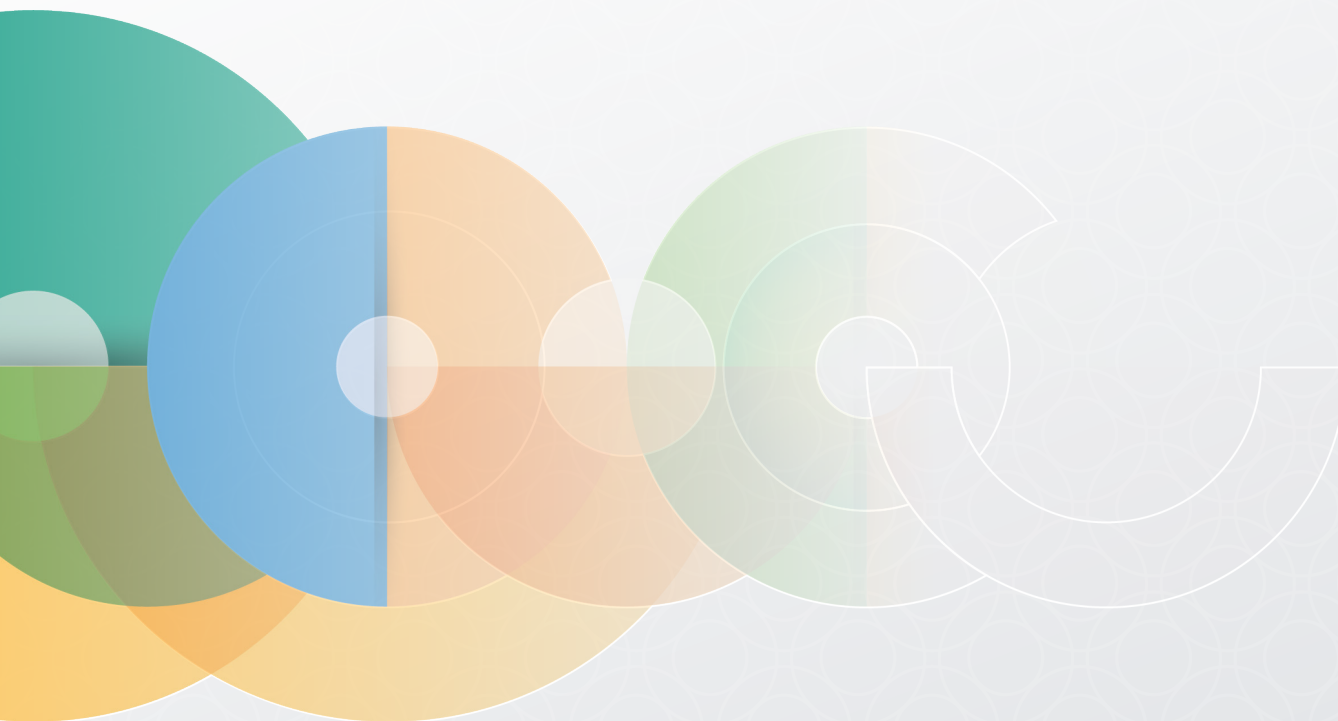
By integrating digital solutions into our communication strategy, we enhance coordination among team members, improve transparency, and maintain project momentum regardless of location.



Shared Project
Data Cloud
Repository

Project Plan
& Tracking
Dashboard

Digital
Submittals
Register &
Reviews



TAB 6 | PROJECT APPROACH

Approach to Addressing Project

The following outlines our Team's technical approach for the project as required by Section 2.2, Statement of Qualifications Content, Tab 5.

Goal for Cooper City

Per your request we understand **"The ultimate goal of the City is to have a sustainable, smooth-functioning, integrated and robust Electrical System that incorporates the newest and simple-to-use energy-efficient technology for all its upgrades and facilities."**

Purpose of Work

Ardurra will bring the experience and qualifications to provide comprehensive evaluation, design, permitting, bidding/construction-award assistance, and post-design services. Our comprehensive team brings the breadth and depth of skills, resources and disciplines necessary to deliver these electrical improvements.

Objectives of Work

At the completion of work the City will:

- Have improved safety, reliability, code compliance, operability, maintainability, and resiliency of the plant and collection/distribution electrical systems
- Incorporate equipment, systems and configurations that are energy efficient and incorporate innovative emerging technologies
- Include site and utility coordination, equipment sizing and layout, power distribution, control systems, standby power, grounding, surge protection, and energy efficiency improvements
- All necessary plans, specifications, cost estimates, schedules, and supporting documents required to permit and construct the improvements

Understanding of Facilities, Needs and Challenges

The City's WTP withdraws water from Biscayne Aquifer and is treated using nano-filtration technology with a maximum capacity of 7 MGD. The WWTP consists of 3 individual package plants, each with a maximum treatment (activated sludge) capacity of 1.25 MGD.

These facilities are well maintained in serviceable condition, however most of the electrical equipment is part of the original construction, **originally built in the 1970s**, and is at the end

of its service life. Challenges specific to electrical equipment are the availability of replacement components for aging systems. These electrical systems are aging and require significant electrical improvements to support the reliability and maintainability of the main service electrical equipment. **These electrical systems are critical to maintaining plant process operations and to meet current and future regulatory requirements/flows.**

Addressing Medium Voltage Issues

Plant staff have stated that they do not have qualified on-staff personnel to maintain the existing medium voltage main electrical equipment. A failure of the SWGR bus or the radial feeder will shutdown the plant and cause definite treatment and disposal issues.

City's 2024 Water and Wastewater Master Plan Update as a Basis of Design



It is understood that the Master Plan includes capital improvements over the next 20 years, with one of its primary recommendations as Electrical System Upgrades to facilitate current and future needs. These are in three (3) phases:

Phase 1 - Immediate upgrades to be completed within 2 years. Primarily refurbishing main power and generator power breakers for switchgear.

Phase 2 - Near term upgrades (2-5 years) with major upgrades to the electrical distribution system for both the WTP and WWTP.

Phase 3 - Long term (+5 years) with any items that might otherwise be deferred from Phase 2 as well as items to support future WTP/WWTP improvements.

It is understood that the City intends to progress with all three phases in one design package. Our approach will develop and package design elements for construction and bidding in a way that can be adjusted as needed, to meet City funding availability.

Phase 2

- New and separate FPL utility services for the WTP and WWTP. An estimated 3 services will be confirmed with our preliminary engineering report and electrical system evaluation
- New FPL services will supply power at low voltage (480V) and eliminate the need for medium voltage distribution
- New standby generators for each of the new electrical services for backup power
- Relocation of the existing 2MW generator to be utilized at one (1) of the three (3) new locations
- Two (2) new generators for the other locations (480V, Tier 4)
- Relocation of the existing bulk diesel fuel storage tank (replaced in Phase 3)
- New service entrance paralleling switchgear with transfer controls for each WTP/WWTP location
- New low voltage duct bank raceway systems to re-supply existing LV Switchgear, Switchboards, and Panelboards within each process area



Phase 3 – Long Term Upgrades (5+ Years)

Phase 3 considers replacement of electrical components that are at/near end of useful life and are sequenced with WTP or WWTP process related upgrades. These include:

- Replacement of the existing 2MW generator with a new Tier 4 diesel generator
- Replacement of the existing bulk diesel fuel storage tank
- Replacement of existing LV Switchgear, Switchboards, and Panelboards within each process area



Electrical Grounding System Upgrades

The grounding system is to be considered for this project due to its age. This will be based on a survey and comprehensive evaluation of the current grounding system. Any required improvements are to be incorporated in design and procurement documents.

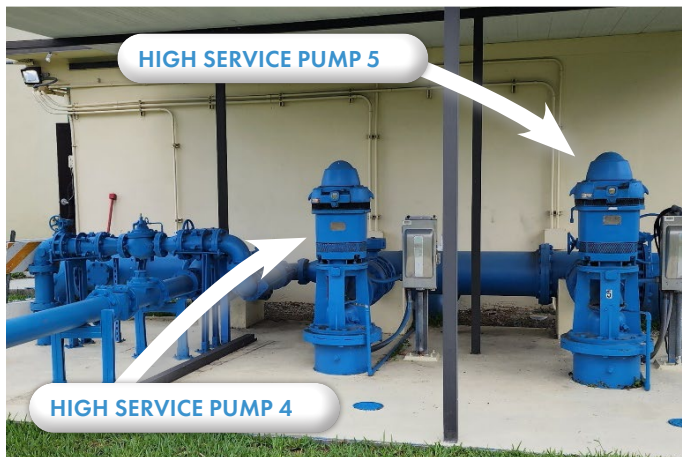
Emergency Backup Power at Remote Water Facilities (Pine Island Road Pump Station)

Although no operational issues have been reported, its overall adequacy shall be evaluated and incorporated into the design if required.



High Service Pump Stations (HSPS) And Electrical System Replacement

The HSPS and its associated electrical equipment at the treatment plant are approaching the end of their useful life. Two high service pumps (Pumps 4 and 5), along with their associated electrical systems, including electric motors at the GAH WTP, will be evaluated and, if warranted, redesigned for replacement or upgrade to improve reliability and operational performance.



Blower Room Electrical System Rehabilitation

The entire electrical system for the blower room building will be evaluated and redesigned for replacement or upgrade.



Additional Comprehensive Design Disciplines

The design inclusive of alternatives, and phasing will include:

- Electrical Engineering
- Civil Engineering
- Structural Engineering
- HVAC
- I&C including SCADA systems
- Cost Estimating and Scheduling
- Surveying and 3D Mapping of Existing Facilities
- SUE to locate underground utilities and potential conflicts
- Geotechnical
- Permitting and Regulatory Coordination
- Utilities and FPL Coordination

Implementation of design, through procurement, construction, commissioning and start-up will include all components of software, equipment/hardware, implementation and functional installations.

Scope of Work

The design inclusive of alternatives, and phasing will include:

- Estimated costs of equipment, installation and construction. Level of detail and accuracy will be improved at each phase
- Scheduling, sequencing and respective timelines will be updated at each stage of design. Including any major equipment lead times and potential pre-purchasing
- In person detailed progress meetings with the City staff, at a minimum, on a monthly basis. Review workshops will be conducted at key decision points especially during the 30%, 60% and 90% completion
- Presentations addressing key decisions including, pricing, scheduling and issues will be conducted with City's staff and/or City Commission

Although the Master Plan outlines Phases of work, we understand the City intends to construct this Project in a single phase. **The corresponding design will provide for sub-packages and sequencing to maintain plant operations.** Additionally, the design and equipment evaluations will consider Owner Direct Purchase as appropriate for cost and schedule consideration.



PROJECT SPOTLIGHT

Blacks Ford WRF Expansion JEA, FL

The recently completed design and ongoing collaborative CMAR construction demonstrates our ability to deliver similar complex multi-discipline designs at WTP / WWTP. Similar collaborative electrical systems pre-purchasing strategies were employed as part of the CMAR delivery.

Technical Electrical Systems Approach

Our approach to rehabilitation of in-service systems focuses on:

- Maintaining operation throughout construction
- Minimizing operational risk during the work
- Long-range planning
- Cost control and certainty

Our technical approach is conceptual and flexible. This technical approach will demonstrate the collaborative process that our Team will use to ensure that the City receives the best value and highest level of reliability for the time and money being invested.

Design Approach & Project Concept

The design of this project will address the City's needs for flexibility, reliability, expandability, and maintaining plant operations. The following details our technical and design approach:

- **Site Analysis** - Conduct a walkthrough of the entire site to review the existing conditions.
- **Existing Record Review** - Gather and review existing pertinent documents such as record drawings, shop drawings, reports, O&M manuals, etc.
- **Evaluation/Assessment of Existing Electrical Equipment** - Conduct a detailed field inspection of all existing electrical equipment. The assessment report will establish the priority basis for Switchgear, generator, MCC, power panels and power cables replacement. The assessment report will emphasize providing personnel and equipment safety and a level of reliability comparable to the intent of the original facility.
- **Power System Study** - Perform a power system study and arc flash study for both the WTP and WWTP electrical equipment. It was observed during our walkthrough that the existing electrical equipment does not have any arc flash labels installed.
- **Constructability and MOPO** - Our design will include the ability to keep the plants on-line at all times. This will require phasing plans to be developed. The existing SWGR1 and existing electrical equipment will remain energized and in operation until all new equipment and feeders have been installed, tested and in operation.
- **Preliminary Design Report (PDR) / 30% Design Submittal** - Our Team will prepare a PDR to outline the existing equipment conditions, proposed recommendations, and Engineer's Opinion of Probable Construction Cost Estimate.

60% Design Submittal
90% Design Submittal
90% Design Submittal

Design delivery stages will follow the Steps for **Successful Project Delivery** and associated delivery matrix provided on following pages.

Existing Electrical Distribution

The WTP and WWTP are co-located on the same site and are powered from a common electrical system located at the WTP:

- Power distribution throughout the WTP and WWTP is at medium voltage (22.86 kV)
- The existing medium voltage primary service originates from an FPL vault



- A radial 22.86 kV FPL feeder extends from the FPL vault to a single Main Switchgear (SWGR1) rated 600 Amp, 22.86 kV
- A 2,000 kW emergency standby generator is stepped-up from 480 V to 22.86 kV via a City-owned pad mounted transformer and is connected to the emergency side of SWGR1
- Power is distributed from SWGR1 via radial feeds to step-down transformers from 22.86 kV to 480 V to serve WTP and WWTP electrical loads throughout each facility
- The main electrical service equipment (SWGR1) has been in service since the 1970's and is nearing end of useful life
- The existing SWGR1 generator breaker does not close automatically upon loss of normal FPL power

Refer to **the Conceptual Design Plan (pg. 70) at the end of this section** for an overview of the existing electrical distribution system.

Proposed Electrical Distribution

The existing electrical distribution system at the Cooper City WTP and WWTP does not currently meet the requirement for EPA Class I Reliability. The existing WTP and WWTP are served by a single (radial) 600 Amp, 22.86 kV service.

Based on EPA guidelines for facilities providing Class I Reliability, implementation of dual, main electrical service is recommended for the WTP and WWTP. We recommend 480 V main power distribution systems and two separate FPL services for each facility in lieu of the current radial 22.86 kV main power distribution system. **Our Electrical Engineering Team will coordinate and determine with FPL availability and ratings of FPL transformers during PDR stage.**

The current system does not have dual power sources to common equipment, which increases risks of extended equipment downtime. **As part of our design, dual power sources will be provided to improve reliability and reduce risk**

In addition, the existing electrical distribution does not take into consideration electrical reliability, maintainability, safety, and equipment testing.



Refer to **the Conceptual Design Plan and the following page Summary Table** for the proposed electrical distribution systems for the main service equipment and generators for the WTP and WWTP.

Benefits of the proposed configuration:

- Reliability throughout each plant will be enhanced and potential process downtime minimized in the event of cable or equipment failure
- Provides superior power redundancy and availability of future expansions at both Plants - WTP and WWTP
- Allows for the elimination of SWGR1, the medium voltage City-owned pad mounted transformers, and FPL transformer vault
- Linked motor loads will be split between SWBDs to provide added reliability
- Provides and enhances the first level of Class 1 reliability as described in the EPA's Design Criteria for Mechanical, Electrical, and Fluid System and Component Reliability (EPA-430-99-74-001)

Please see the chart on the following page for a table that summarizes the existing conditions, along with proposed approach and benefits.

Emergency Standby Power Generator

The facilities currently have 1 emergency standby generator. It is our understanding that when there is a loss of normal FPL power, the generator must be manually transferred at existing SWGR1 due to ongoing issues with the SWGR1 generator breaker not being able to close automatically.



Due to the age and condition of the existing generator, we are proposing a new diesel generator be installed at each facility to provide standby power during loss of normal FPL power.

The size of standby generator systems will be determined during the final design phase for the treatment facilities. However, the capacity of the standby generators will be sufficient to operate all life-safety equipment, illumination, ventilation, and all vital process components, during peak flow conditions of both treatment plants.

The RFP requires that the new generators meet Tier 4 Final emission standards. Our Team will:

- Perform an evaluation during the PDR stage and obtain FPL Rate Schedules from FPL and estimated plant energy usage to determine estimated annual savings to the City verses upfront costs for Tier 2 and Tier 4 Final Generator
- Provide recommendations to the City regarding Tier 2 verses Tier 4 Final Generators in addition to advantages and disadvantages.
- Provisions for a separate fuel tank/base mounted fuel tank and walk-in type sound-attenuating enclosure will be included in the generator design

Summary Table of Electrical Modifications

AREA	MAIN PLANT'S EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT	FUNCTIONALITY AND CONDITION	PROPOSED MODIFICATIONS TO ELECTRICAL DISTRIBUTION SYSTEM
FPL PRIMARY SERVICE	22.86 KV, 3PH FPL Primary Distribution service	Single FPL Primary Service to the Main Switchgear and to both Plants WTP and WWTP	Four new FPL Transformers, 22.86KV-480/277V, 3PH, 4W. Each of two transformers will provide redundant power feeders to WTP and WWTP
WTP AND WWTP MAIN SWITCHGEAR	23KV, 600A, 3PH Main Switchgear SWGR1, located outside	Existing Switchgear at the end of recommended useful life and obsolete construction, required to be replaced	Two new 480V Paralleling Switchgears , located inside A/C new Electrical Buildings, with two separated redundant systems for WTP and WWTP
MAIN EMERGENCY GENERATOR	2000KW, 480V, 3PH Generator provides backup emergency power to Main Switchgear thru step-up transformer 1TX1	Existing Caterpillar Generator is manually controlled and operated	Two new Generators will be connected to two Paralleling Switchgears, with future options for Plant to add two other generators
EXISTING TRANSFORMERS, ALL RATED: 22.86KV-480/277V, 3PH, 4W	- Existing Transformer 1TX1, 2500KVA - Existing Transformer 13TX1, 750KVA - Existing Transformer 12TX1, 750KVA - Existing Transformer 14TX1, 1500KVA. - Two Existing Transformers 2TX1 and 2TX2, each: 2000KVA - Existing Transformer 8TX1, 300KVA - Existing Transformer 10TX1, 300KVA	- Existing step-up transformer provides back-up power feeder to existing Main Switchgear - Provides single power feeder to WWTP Effluent Pump Station - Provides single 480V power feeder to WTP High Service Pump Station - Provides single 480V power feeder to WTP Membrane Building - Provide two 480V power feeders to WWTP Blower Building - Provides single 480V power feeder to WWTP Sodium HYPO Building - Provides single power feeder to WWTP Dewatering Building	- This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced - This existing equipment will be demolished and not replaced

Summary Table of Electrical Modifications (cont.)

AREA	MAIN PLANT'S EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT	FUNCTIONALITY AND CONDITION	PROPOSED MODIFICATIONS TO ELECTRICAL DISTRIBUTION SYSTEM
WTP MEMBRANE BUILDING	Switchboard SWBD-3, rated 2000A, 480V, 3PH, MCC-14A & MCC-14B, both are 600A, 480V, 3PH, Power Panel PP	Existing Square D Switchboard and MCCs are in good operational condition	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required.
WTP HIGH SERVICE PUMP STATION	Switchboard SWBD-4 rated 800A, 480V, 3PH, MCC-12 & MCC-12A, both rated 600A, 480V, 3PH	Existing Square D MCC, motors and associated electrical equipment are at the end of recommended useful life	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required
WWTP EFFLUENT PUMP STATION	MCC-4 rated 800A, 480V, 3PH	Existing Square D Switchgears and MCCs	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required
WWTP BLOWER BUILDING	Switchgears SWGR-1 & SWGR-2 both rated 2500A, 480V, 3PH, 3-MCC-1 & 3-MCC-2, both rated 600A, 480V, 3PH	Existing Square D Switchgears and MCC's and associated electrical equipment are at the end of recommended useful life	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required
WWTP SODIUM HYPO BUILDING	Distribution Power Panel DPP-8 rated 400A, 480V, 3PH	Existing Square D Distribution Power Panel	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required
WWTP DEWATERING BUILDING	Distribution Power Panel DPP-10 rated 400A, 480V, 3PH	Existing Square D Distribution Power Panel	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required
REMOTE PINE ISLAND ROAD PS	FPL transformer 500KVA, 12470/7200-480/277V, 3PH, Eaton MCC rated 600A, 480V, 3PH, Marathon Generator 250KW, 480V, 3PH	Existing FPL service, Main MCC, Generator are in good operational condition	Existing electrical distribution equipment will be evaluated, re-designed and replaced as required

Steps for Successful Project Delivery

1. Scoping/Establishing Performance Requirements

- Project success depends on establishing a clearly documented, shared understanding among the owner, operator, and engineer, including performance requirements, system interactions, and owner preferences, culminating in a defined scope of work and delivery schedule.

2. Data Collection and Facility Assessment - This includes compiling City data on existing facilities (as-builts and asset registers) and applying our Condition, Operation, and Resiliency (COR) Assessment, where needed, to establish baseline conditions and future operational needs.

3. Preliminary Engineering and Concept Development

- An initial design concept will be developed using prior data, 3D BIM tools, and applicable standards, with preliminary layouts optimizing existing infrastructure while accommodating future needs.

4. Preliminary Design Review Workshop - Formalized review workshops will address City concerns early, incorporate operational preferences, and focus on constructability and MOPO for in-service electrical systems.

5. Maintenance of Plant Operations (MOPO) – Maintaining continuous WTP/WWTP operations during construction is critical; a Draft MOPO Plan will define sequencing, equipment control, and responsibilities, and will be finalized with the contractor to ensure regulatory compliance and avoid conflicts.

6. Design and Construction Documents Development - Clarity of outcomes, decisions and criteria from the previous steps will ensure that the design development of construction documents proceeds on schedule with minimal changes.

7. Permitting Reviews and Approvals – Upgrades to existing systems may challenge current code compliance, so early coordination with building and fire departments will clarify requirements and permitting, with primary emphasis on NFPA 820.

8. Finalize Construction Documents - Adhering to the Quality Management System, addressing review comments, and aligning with City requirements will ensure complete, on-time bid documents.

9. Bidding and Contractor Selection - Clear contractor briefings and responsive communication will reduce bid uncertainties and support selection of a qualified contractor with appropriate pricing.

10. Construction Administration and Support - Following City procedures, timely documentation and responsiveness will keep the project on track, with field support provided to address unknown conditions during rehabilitation.

11. Commissioning, Start-up and Training - Complex, highly integrated systems require close collaboration among the engineer, operator, manufacturers, and contractor to ensure successful turnover and reliable operation.

12. Project Closeout and Documentation - Closeout planning begins before construction, with asset data, warranties, and as-builts defined early, collected throughout, and verified to meet City database requirements.

Project Definition & Schematic (10%) Design	Conceptual (30%) Design	Permitting & Assistance	60% Design Development	90% Design Development	Final Design (100%) Design
- Project kickoff meeting - Identify project goals and stakeholders - Prepare project work plan - Define critical success factors and risk register - Site Visit and Physical Assessment with City staff - Initiate survey & geotechnical work 10% design schematic	- Review Historical Data - Conceptual Design (30%) documents - Finalize Survey and Geotech - QA/QC - Internal Tech Review - Workshop No 1 to 30% Design - Identify equipment pre-purchase opportunities - Initiate Permitting	- Permit application package preparation and submittal - Meetings with agency permit reviewers, as needed - Response to RFI	- Prepare 60% plans, specs, bid form, and Class 2 Project Bid Tab and Estimate Report - Prepare construction sequencing & MOPO - Constructability Review - QA/QC - Internal Tech Review - Workshop No 2 to Review 60% Submittal	- Permit applications and RAls - Prepare 90% plans, specs, and Class 1 Project Bid Tab and Estimate Report - Finalize construction sequencing/staging plan - Internal Tech Review - Workshop No 3 to Review 90% Submittals - Constructability Review	- Prepare 100% plans and Technical Specifications - Bid Form - Class 1 Final Project Bid Tab and Estimate Report - Obtain permits - QA/QC - Internal Tech Review Subcategories Submitting
DELIVERABLES					
- Project Work Plan, Communication Plan, & QA/QC Plan - Updated Project Definition - Major Equipment List - Draft P&IDs and PFDs 10% Class 5 Cost Estimate	- Conceptual Design (30%) - Specification Table of Content - Updated Schedule - Class 3 Project Bid Tab and Estimate Report - Site Investigation (Survey & Geotech Report) - Meeting Minutes	- Permit Status Log transmitted monthly - Permit pre-application meeting minutes - Permit Application Packages - RFI responses - Permits	60% plans and specs - Class 2 Project Bid Tab and Estimate Report - Update Schedule - Draft Permit Application Packages - Meeting Minutes	90% plans and specs - Class 1 Project Bid Tab and Estimate Report - Update Schedule - Meeting Minutes	- Regulatory Review sets - Bid-Ready Set

Project Management & Communications

Communication is the single most important factor in achieving project success for:

- On time schedule compliance
- Completed costs within budget
- Compliance with all regulatory requirements
- Constructed work meets owner expectations
- All issues resolved at construction completion



Kick-off Workshop & Work Planning

At the very beginning and prior to the initiation of work, our project management and technical leadership will meet with the City as part of a “Kick-Off” program initiation meeting. A draft Project Delivery Plan will be provided for review prior to meeting and updated as a result. Steps include:

- Goal/ Purpose /Objectives of project
- Schedule and resource projections
- Stakeholders and communications
- Basis of planning/design criteria
- Quality management requirements
- Issues, challenges and risks

This same group will meet with the City again on a recurring basis to ensure continued progress and make necessary adjustments to address changing conditions.

Project Delivery Plan

A Project Delivery Plan (PDP) is built on and coordinated with the Project Tracking Sheet, which will ensure that all parties with responsible actions are informed of the purpose, objectives, budget, schedule, and procedures.

A dynamic PDP provides a common understanding of the unique methods of delivery for each project. This document will provide an ongoing guide for work, reporting and communications. It is critical that we work as a single team with a common goal.

- Purpose and objectives of work
- Communications and roles
- Procedural requirements
- Design and performance criteria
- Standards of work
- Quality requirements
- Milestone events with activities

Weekly - Informal Updates

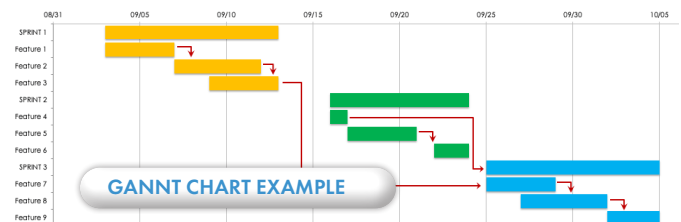
Continual communications require an open culture of trust and direct engagement on important issues. **The end of every week begins with a verbal discussion with the City and our PM along with a written 2-week lookahead.** This 2-week look ahead provides:

- Work completed over the previous week
- Activities anticipated in the next 2-weeks
- Identification of issues and responsible party
- Potential schedule, budget or change impacts
- Schedule or cost recovery strategy if needed

Monthly - Formal Meetings and Progress Reporting

The City will be provided with a formal updated project report on a monthly basis that will also be used as the basis for onsite review meetings.

- Gantt Chart based schedule update and identification of any potential impacts
- Project cost to budget updates and projections with identification of any potential issues
- Invoicing aligned with contracted Work Breakdown Structure and narrative description of corresponding work completed



Executive Briefings

We recommend at key stages conducting briefings with your executive / management leadership and interested elected officials. During these we will provide a graphics heavy executive briefing along with an in-person presentation on the status and progress of the program. **We find this effective at preventing unanticipated changes through addressing any questions or concerns of senior leadership in a proactive manner.**

Decision Gate Workshops

For all key project milestones, we will facilitate formal review meetings with the City and your key staff in capital projects, operations and maintenance. Review materials will be provided prior to meetings and outcomes documented in decision log. Through this effort projects continue to progress without rework or changes that would pose potential delays.



Collaborative Communication Tools

A digital means of sharing project information with team members (PM, Engineers, Owner, Contractor, Reviewers, etc.) will be provided throughout. **This provides the real time and one-stop shop access to all information as it is developed, delivered, reviewed, and revised.** Whether this be Microsoft Teams, SharePoint, ProjectWise, Autodesk Construction Cloud, or other systems; we have established systems and standard methodologies in place.

Benefits and Outcomes



Quality Management

Cost Estimating and Scheduling

Project Schedule and Budget establishes the Road Map for Project Success, with a stable budget, based on good quality estimates, and realistic schedule taking into account project phasing being the starting point. Following guidelines of the Association for the Advancement of Cost Engineering (AACE), our cost estimators have a proven record of establishing realistic baselines on large and complex infrastructure projects both locally and of this type. Schedule and cost management stages:

- Initial budget and schedule at planning / validation
- Design phase updates and revisions
- Pre-procurement final validation
- As a basis for bid evaluations and change orders

As leaders in WTP / WWTP engineering and as design-builders we have an incentive for accurate pricing based on many years of archival knowledge.

Delivery of specialty equipment, generators and switchgear is the greatest potential risk to the schedule. **Early engagement with suppliers will help control these issues and working with the supplier on configuration can adapt the design to use available systems.**

Value Based Project Development

Our approach during the preliminary assessment phase of any project ensures each project is carefully analyzed to determine the most cost-effective approach to complete the project.

- Data collection, field assessment, modeling and analysis
- Operation and maintenance records understanding of needs
- Prioritization by stakeholder criteria and owner preferences

Compare outcomes of potential projects for:

- O&M asset upgrades or repairs
- Rehabilitation of existing infrastructure
- Performance upgrades and expansions
- New or replacement facilities

Integration of Team Members at Each Phase

We take an integrated team approach which defines the roles and responsibilities at each phase of the work. In addition to our leadership and technical expertise, we bring the breadth of project delivery staff and capabilities to deliver on schedule and meet your expectations. This is demonstrated in our Organization Chart; our team is structured to deliver a successful project to the City. **One of the ways that we ensure project quality and consistency is through “fully integrated design teams”.** This integration fosters new ideas, communication, quality, and accountability for strong outcomes.

Implementing Lessons Learned

Due to the non-standard nature of WTP / WWTP infrastructure, it is important to share and build on the knowledge of all team members. At the outset of work, we formally meet with your staff to discuss and document our background with similar work, historical challenges, and best practices that we have each developed for delivery and construction. **The outcome of this step will be a standardization of the design practices, systems, and tools that will be used in project delivery.**

Cost and Schedule Control Through Effective Construction Management

Construction management begins during design with our experienced construction administration staff providing constructability reviews and assisting with cost estimating and scheduling. We implement structured construction management and engineering inspection process based on our management of some of the most challenging projects. This starts with a robust documentation management system built around the original construction contract with a focus on schedule adherence, continual communication, and a robust management process.

Total Quality Management

We take great pride in quality control and ensure that all deliverables undergo rigorous quality control procedure. This procedure is distributed to all team members to employ the same procedure when developing all deliverables prior to final review before submission. Our Project Manager defines the elements of the project and describes the quality control/quality assurance program. The Team is committed to meeting these peer review deadlines for each project.



| We Get The Job Done Right “The First Time”

We have a five-step QC process for all deliverables. It is dynamic by design, as we continually look for methods to improve quality.

- 1. Project Delivery Plan** – This incorporates all details of the work breakdown, schedule, responsibilities, and protocols for quality management
- 2. Quality in Design** – Using methodologies, approaches and tools specifically identified for the work and improved through implementation
- 3. Inter-discipline Coordination** – Formal coordination review meetings between technical disciplines facilitated by the Project Manager and documented
- 4. Structured Reviews** – Through a pre-scheduled and formal process using established technical experts and quality personnel
- 5. Verification** – Through a back-check of documentations and comparison of end products to original work requirements, final deliverables are ultimately released

ROLE	SCOPING AND PLANNING	DESIGN DEVELOPMENT	CONSTRUCTION PROCUREMENT	CONSTRUCTION & COMMISSIONING	PROJECT CLOSE OUT
OWNER	- Define goals and objectives of work - Review and input throughout design		- Approval of contractual issues and project acceptance - Participate in training and start-up with operations staff		
PROJECT MANAGER	- Plan and implement project w/ Owner - Scope/Schedule/Budget/Issues Management		- Project reporting, monitoring and issues resolution - Progress reviews and overall financial management		
ENGINEERING	- Technical excellence and innovation - Design construction package development		- Provide reviews and comments of shop drawings - Timely response to RFI's and issues during construction		
QUALITY MANAGEMENT	- Oversight and verification of quality process - Technical leader reviews and design input		- Final verification of procurement & contract documents - Close-out documents review and verification		
CONSTRUCTION ADMINISTRATION	- Constructability, cost and schedule input - Planning for and setup of construction phase		- Provide daily communication and coordination of work - Documentation of work and construction change management		
O & M SUPPORT	- Engagement of O&M staff on design function - Maintenance of operations planning		- Coordinate maintenance of plant/pumping operations - Facilitate training, start-up and equipment documentation		

| Clearly defined roles and responsibilities of Team members across every phase of work.

Bid Phase and Construction Award Assistance

Pre-bid Briefing – Due to the nature of the work, we recommend the City make the Pre-Bid Briefing mandatory and the facility made accessible for visual assessment by potential bidders.

We will assist the City through this process with detailed presentation materials and presentation to interested bidders. We will highlight the critical issues of MOPO, sequence of construction, coordination of assessment and suitable methods for rehabilitation.

RFI Response and Addenda – Timely and clear responses to potential bidders will be our priority. This effort will be coordinated directly with City engineering and procurement to ensure we follow your established protocol.

Bid Tabulation Review and Award Recommendation

– Once the bids are received, we will provide the City a comparison of the respective bids to each other as well as the engineer's estimate. The goal will be ensuring the suitability of the lowest bid(s) and qualification of the Contractor(s) to perform the work. If deviations or concerns are noticed, we will formally bring it to the City's attention.

Construction Phase Support

Construction Documentation - Creating, maintaining and distributing logs, tracking progress of submittals, correspondence with the Contractor, and documenting contractor schedule and payment are heavily important construction administration activities.

We will follow City standard protocol where already established and adapt our standard methodologies where needed to be successful.

Pre-Construction and Monthly Meeting – Prior to the Contractor's mobilization there will be a discussion of important issues to coordinate timely completion that include:

- Maintenance of Plant Operations
- Sequence of construction and phases of work requiring operations assistance
- Condition assessment and determination of rehabilitation methods
- Day to day communications between Operations and Contractor

These meetings will continue on a reoccurring basis to identify potential coordination issues before they occur and address the needs to mitigate those early.

Onsite Construction Inspection – We are prepared to address the full spectrum of construction phase services, including day to day inspections. These inspections can be to either supplement the City's or standalone.

Our inspector(s) will be experienced in the proposed construction disciplines and knowledgeable of the issues facing WTP/WWTP construction. At all times the inspectors will work in the best interests of the City and providing daily documentation and inspection enforcement to the City's expectations.

Review of Shop Drawings and RFI Response – Our Construction Administration lead will provide the single point of communication and coordination to ensure consistency in all technical submittals and requests from the Contractor. These documents will be reviewed directly by the lead engineers that developed the design criteria and construction documents, which is a benefit of our right sized and focused engineering team.

Review of Contractor Schedule and Pay Requests – On time delivery of this project is key to controlling the overall risks and costs. Construction overruns in schedule often correspond with contractor change requests. Our efforts will focus on ensuring consistency between both the schedule and pay requests, while identifying potential issues early. If issues arise in delivery, we will work directly with the City and Contractor in developing mitigation plans.

Commissioning, Start-up, and Certification

Commissioning, start-up and operator training are not anticipated to be complex. However, for critical switch-over, startup and training phases technical leads from design team will be involved onsite to address questions. Record drawings can be provided as 2D, 3D BIM or laser scanned point cloud rendered BIM files as is desired by the City. The process of obtaining manuals, warranties and required closeout documents will begin well before completion of construction to ensure "paperwork" isn't the hold-up on closing out the work.

Project Closeout and Client Experience Verification - This final closeout stage of the project achieves two things. First is ensuring all project expectations have been met in accordance with agreements. This includes ensuring printed and digital documents are provided for the archival use. The second would be for us to develop and improve best practices through client and team member feedback in a way that continually builds on our archival knowledge.

Emergency Response

Our Project Manager is always available to coordinate work, answer questions and resolve issues as they arise. **Our Project Manager, Jeremy Koch, has spent many late nights/early mornings and weekends on construction sites and on the phone with operations staff and contractors when critical issues arise.**

24-HOUR CONTACT INFORMATION

Jeremy Koch, PE, PMP - Project Manager
305-807-2955
jkoch@ardurra.com

Comprehensive Resource Plan, Workload and Project Schedule

The key to delivering this project is to develop a comprehensive resource plan and schedule that identifies the deliverable dates and practical review times required. Our proposed resource plan and schedule for the project, presented at the end of this section, will form the basis of our team's commitment to deliver within the City's requirements. Completed within **480 days (16 months) after Notice to Proceed**. The following is the expected work schedule for the Project:

• **30% Design Submittal - Four (4) months**

• **60% Design Submittal - Nine (9) months**

• **90% Design Submittal - Three (3) months**

Under current market conditions where equipment lead times are consistently delayed. Our schedule considers pre-purchasing the equipment such that delivery of the equipment would be during the winter months, the ideal time for a facility shut down to occur.

Current and Projected Workload

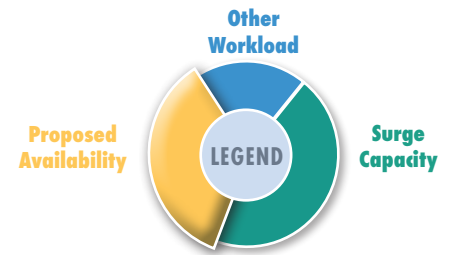
Ardurra has the capacity to deliver the requested electrical engineering services efficiently while meeting the City's schedule and objectives. Below illustrates the anticipated utilization of our team members at each work phase over the next year. **The following page illustrates each of our key team member's surge capacity.**

PROJECT ROLE	PROJECT INITIATION	10% CONCEPT	30% DESIGN	60% DESIGN	90% DESIGN	100% DESIGN	PERMIT COORDINATION	BID PHASE	CONSTRUCTION PHASE	DESCRIPTION AND FOCUS OF EFFORTS
PROJECT MANAGER	60%	15%	15%	15%	15%	15%	15%	30%	15%	Leads through entire design, procurement and construction
DESIGN MANAGER	50%	25%	50%	50%	50%	50%	25%	20%	5%	Multi-discipline design coordination & bid package focus
ELECTRICAL LEAD	50%	75%	50%	30%	30%	30%	15%	30%	15%	Overall technical lead for electrical and supporting systems
ELECTRICAL SUPPORT	10%	50%	50%	50%	50%	50%	10%	10%	10%	Detailed design at direction of lead
I&C/SCADA	10%	25%	25%	25%	50%	15%	0%	10%	10%	Controls integration of new electrical and mechanical
MECHANICAL	10%	75%	50%	30%	30%	15%	10%	10%	10%	New process / pumping equipment and appurtenances
CIVIL	10%	30%	30%	50%	30%	15%	25%	5%	10%	Mostly drainage related activities and regulatory impacts
STRUCTURAL	0%	10%	15%	25%	50%	15%	10%	5%	10%	Supports new electrical and mechanical during design phases
BIM/CAD/DRAFTING	0%	50%	90%	90%	90%	90%	0%	10%	10%	Focused on 3D drafting and rendering of designs
PERMIT LEAD	0%	0%	0%	15%	10%	0%	50%	0%	5%	Coordinates meetings during design
CONSTRUCTION INSPECTOR	0%	0%	0%	0%	0%	0%	0%	10%	50%	Average 50% onsite during construction with some 100% peaks
GRANTS SUPPORT	5%	5%	0%	5%	0%	5%	0%	0%	5%	Ensure grant compliance and with supporting documentation
COST ESTIMATOR	0%	10%	5%	5%	5%	5%	0%	0%	2%	Update cost estimate detail at each stage per AACE standards
QUALITY MANAGER	5%	5%	5%	5%	5%	5%	0%	0%	2%	Technical innovation and quality based risk reduction

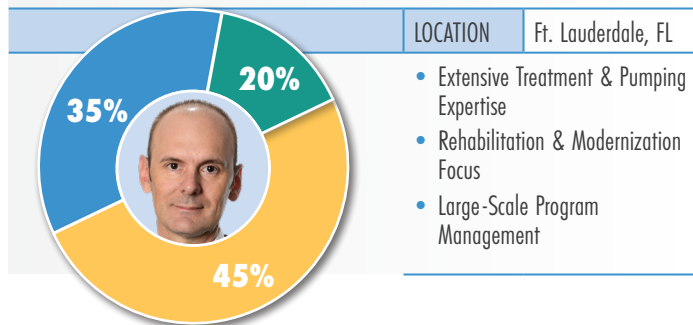
Ardurra's Commitment to Surge Capacity

Our team recognizes the importance of providing the City with ample availability to complete this project in an expedited manner. Understanding that certain phases of the project might have increased time commitments to achieve these goals, we are dedicated to earmarking additional availability for each team member, referred to in this chart as Surge Capacity. **This availability and acknowledgment of increased scheduling demands showcases our team's unparalleled commitment to the project.**

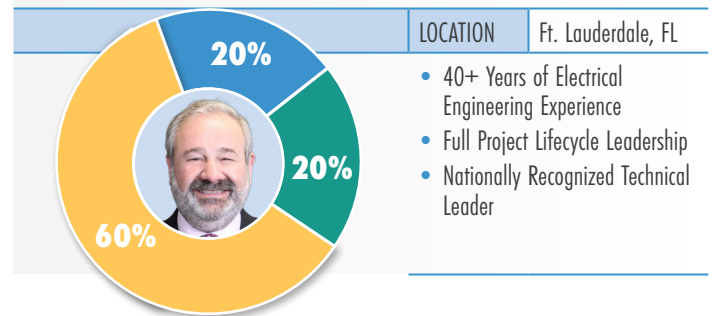
"Other Workload" is that anticipated at start of assigned work tasks.



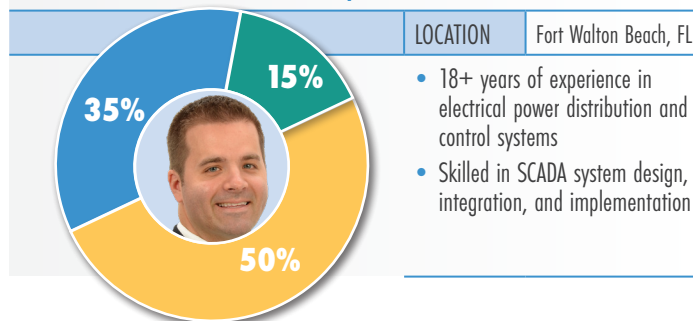
JEREMY KOCH, PE | PROJECT MANAGER



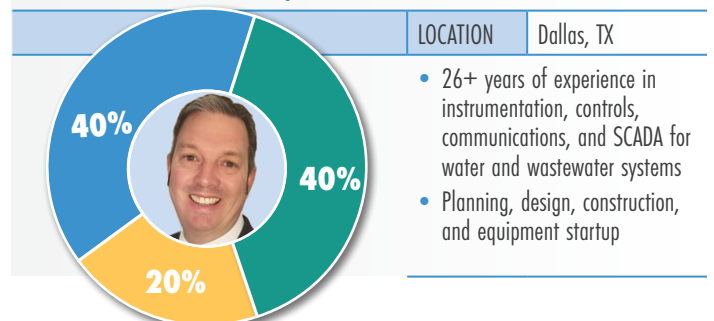
ALEX NIZOV, PE | ELECTRICAL LEAD



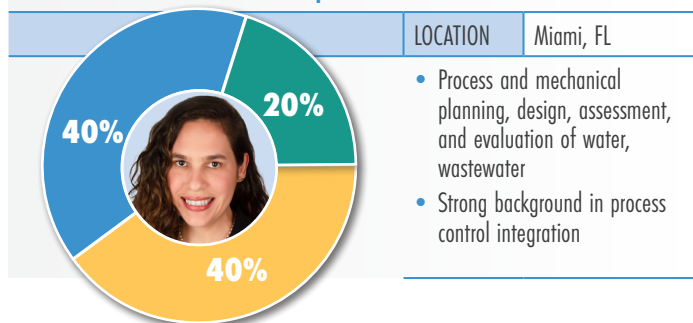
DANIEL STEVENSON, PE | ELECTRICAL SUPPORT



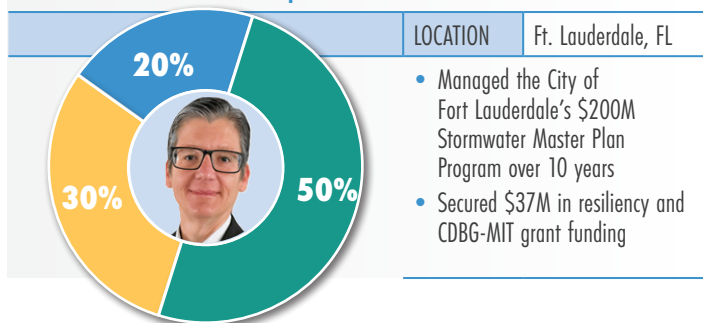
CHAD MORRIS, PE | SCADA/I&C LEAD



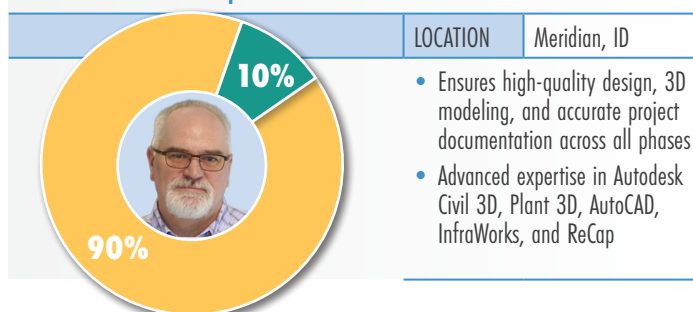
ANA DVORAK, ENV SP | PROCESS MECHANICAL



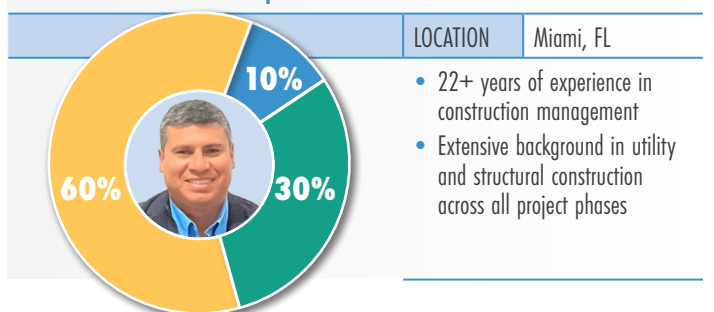
RARES PETRICA, PE | REGULATORY, PERMITTING, & GRANT MANAGEMENT



CREG DIEZGER | BIM/CAD



LESTER SANCHEZ | CONSTRUCTION MANAGEMENT



Experts in the Art of Funding

Ardurra helps utilities and local governments navigate the complex funding landscape by identifying opportunities, positioning projects for success, and guiding clients through every step of the funding process.

Over the past decade, Ardurra has helped clients secure more than \$30 billion in funding through federal and state programs supporting drinking water, wastewater, stormwater, and community infrastructure improvements. Our team has extensive experience working with programs such as:

- Clean Water and Drinking Water State Revolving Funds
- FDEP Florida Resilient Florida Grant Program
- FEMA Mitigation Grants
- Community Development Block Grants
- Other state and federal initiatives that support resilient water and wastewater infrastructure



Comprehensive Support of Funding Applications

Our team assists with the development of planning documents, Preliminary Engineering Reports, cost estimates, funding narratives, and supporting documentation that clearly demonstrate project need, feasibility, and community benefit. Because our funding specialists work closely with our engineering teams, we are able to present technically sound projects in a way that aligns with the evaluation criteria used by funding agencies.

Ardurra provides ongoing support to help clients navigate procurement requirements, documentation tracking, reporting obligations, and coordination with funding agencies. Our experience managing projects supported by multiple funding sources allows us to help clients maintain compliance while keeping projects moving forward.

By combining deep knowledge of funding programs with strong technical expertise, Ardurra helps communities move critical infrastructure projects from concept to construction while maximizing available funding opportunities.

Funding Manager

RARES PETRICA, PE

Ardurra's funding services will be led by Rares Petrica, P.E., with 22 years of experience supporting infrastructure funding across Southeast Florida. Throughout his career, he has **successfully secured and managed more than \$40 million in grant funding**, including programs throughout:

- Florida Department of Environmental Protection (FDEP) Resilient Florida Program
- FEMA Hazard Mitigation Grant Program (HMGP)
- Florida Department of Economic Opportunity (DEO) Community Development Block Grant Mitigation (CDBG-MIT)

He has also supporting development and implementation of more than \$200 million in WIFIA loan financing for major infrastructure improvements.

Rares is supported by a dedicated funding team and Ardurra's engineering professionals, our group brings more than 150 years of combined infrastructure funding experience.



Resilience, Flood Protection, and Grant Readiness

Resilience and Grant Alignment

The proposed improvements will incorporate resilience strategies that strengthen the reliability of critical electrical infrastructure while positioning the City to pursue construction funding through programs such as the Florida Department of **Environmental Protection (FDEP) Resilient Florida Grant Program**, **Federal Emergency Management Agency (FEMA)** hazard mitigation programs, and other state or federal resilience initiatives. Design decisions will consider FEMA flood elevations, the 100-year flood elevation criteria established by the **Central Broward Water Control District (CBWCD)**, and local drainage standards to ensure improvements provide flood-risk reduction and long-term infrastructure resilience.



Equipment Elevation Strategy

All critical electrical equipment—including switchgear, MCCs, generators, control panels, and SCADA systems—will be evaluated against FEMA and CBWCD 100-year flood criteria and elevated where feasible to meet site, operational, and maintenance requirements. Flood and erosion protection will be integrated through site grading, stormwater improvements, coordinated duct bank design, and localized scour and slope stabilization measures to minimize water intrusion, prevent soil displacement, and maintain long-term performance and access.

Permitting and Safety

Permitting and Agency Coordination

Ardurra will implement a proactive permitting strategy to secure all approvals without impacting the schedule. Electrical and building permits will be coordinated with the City of Cooper City Building Department, with early coordination with Florida Power & Light (FPL) to confirm service capacity, transformer requirements, protection coordination, and generator interconnection. Coordination with CBWCD will occur where work affects canals or drainage infrastructure, and with FDEP for improvements to permitted water or wastewater facilities. **All designs will comply with the Florida Building Code (FBC), National Electrical Code (NEC), and applicable NFPA standards, including NFPA 820.** Multiple new FPL service feeds present the primary schedule risk due to potential delays in communication, cost responsibility, material procurement, equipment siting, and power routing; this risk is mitigated through Ardurra's FPL coordination experience and local relationships that streamline communication and decision-making.

Building and Fire Coordination

Ardurra will coordinate early and continuously with the Cooper City Building Division and BSO Fire Department to align on code requirements and minimize revisions. Special focus will be placed on NFPA 820, where agency interpretations may vary regarding space, ventilation, and system separation. Our experience allows us to anticipate these requirements and incorporate compliant, constructible solutions early in design.

Safety and Electrical Hazard Mitigation

Health and Safety is a core value at Ardurra, supported by OSHA-trained staff and a strong safety record. A project-specific Health & Safety Plan will be implemented in coordination with the City. Electrical designs will include short-circuit, coordination, and arc-flash studies. Equipment layouts will provide proper clearances, labeling, and safe access, with wastewater areas designed in accordance with NFPA 820 hazardous location requirements. Construction planning will address safety for residents, motorists, and pedestrians.

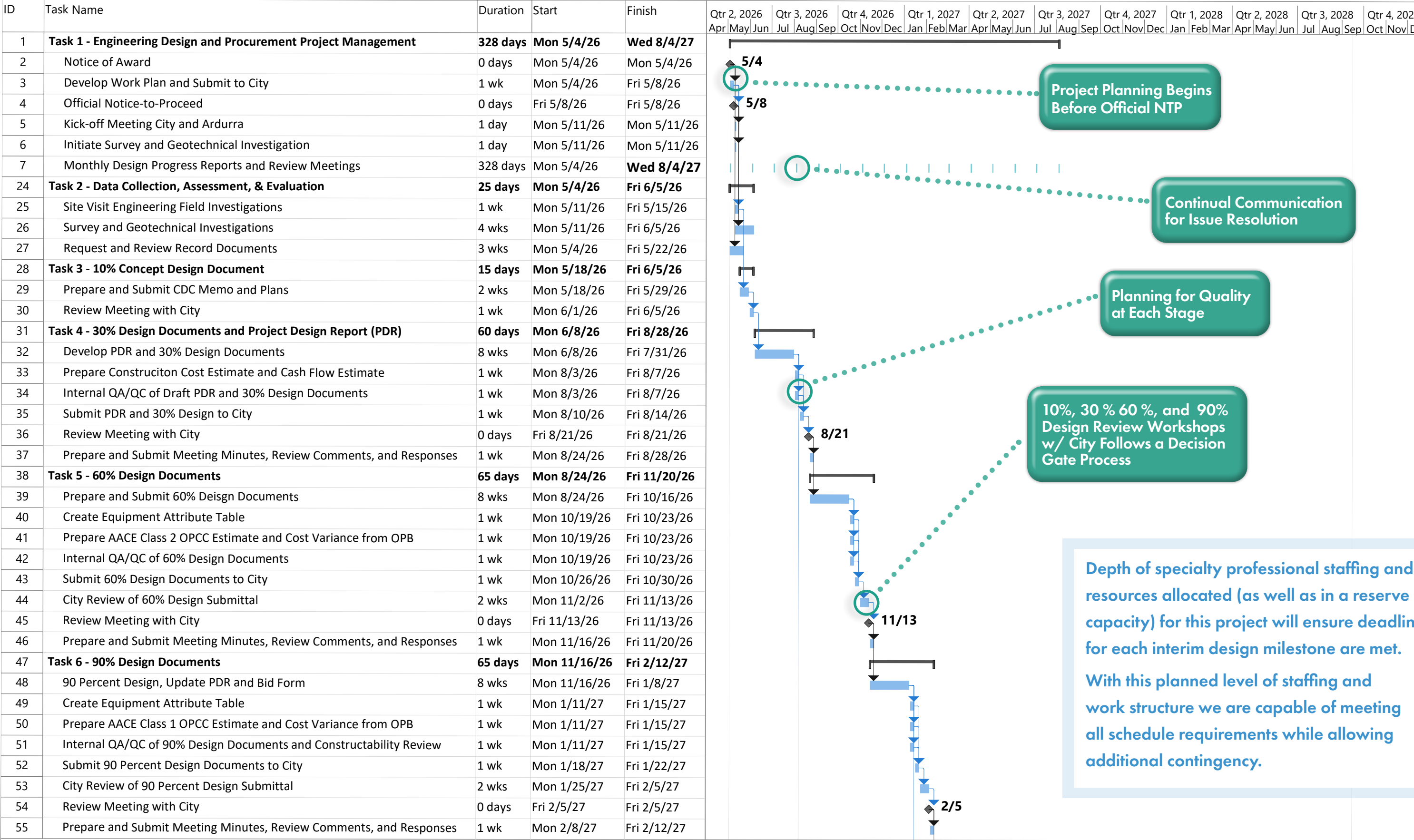
Construction Safety and Operational Continuity

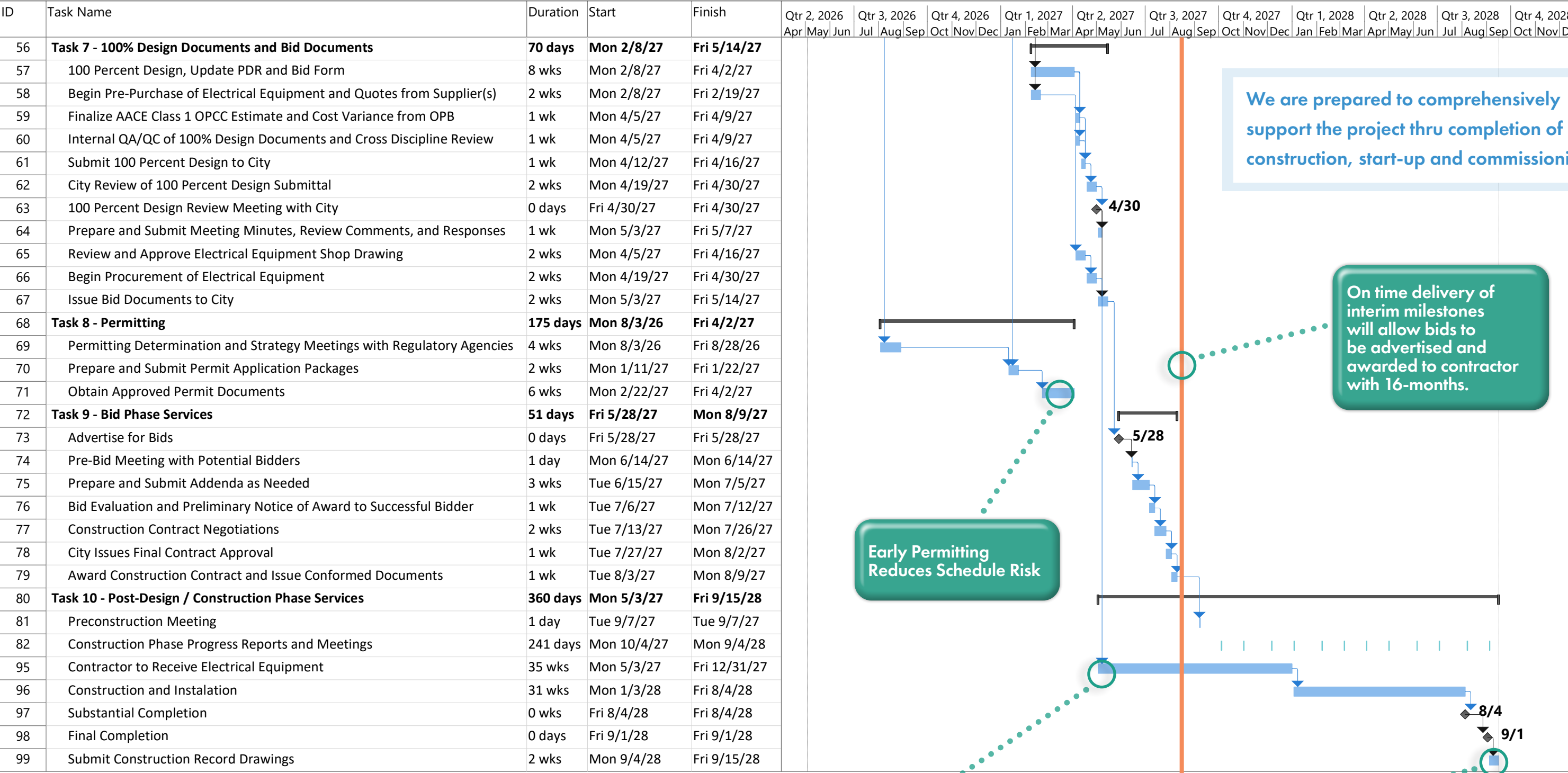
Ardurra will develop phased construction approaches to maintain continuous plant operations during upgrades. Electrical shutdowns will be coordinated with City staff and FPL, and temporary power will be provided as needed to ensure uninterrupted treatment and safe construction conditions.



CENTRAL BROWARD WATER CONTROL DISTRICT PERMITTING

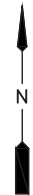
Ardurra brings over 30 years of experience within the Central Broward Water Control District (CBWCD) and a strong understanding of its permitting requirements. All improvements will comply with CBWCD Stormwater Regulations. The Cooper City site lies within the District boundary, with a 100-year flood elevation of 6.50' NAVD; electrical equipment will be designed accordingly. Early coordination, including a pre-application meeting, and our established relationships will streamline reviews and approvals.





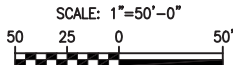
Coordinating with FPL is a critical path issue to completing work on time. Our team brings former FPL employees that know who to call and how to expedite the process.

We will work directly with the City and their Consultant for coordination of work, routing of duct banks and planning to facilitate future WWTP.



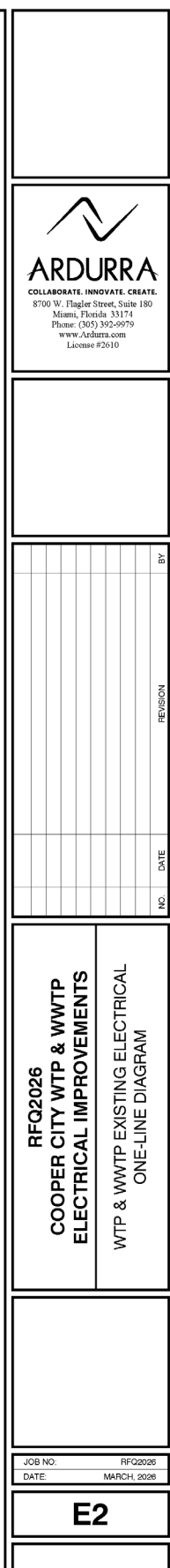
We understand the headworks location is to be determined. We will coordinate with headworks design engineer if relocation of the building and rerouting of duct banks is required.

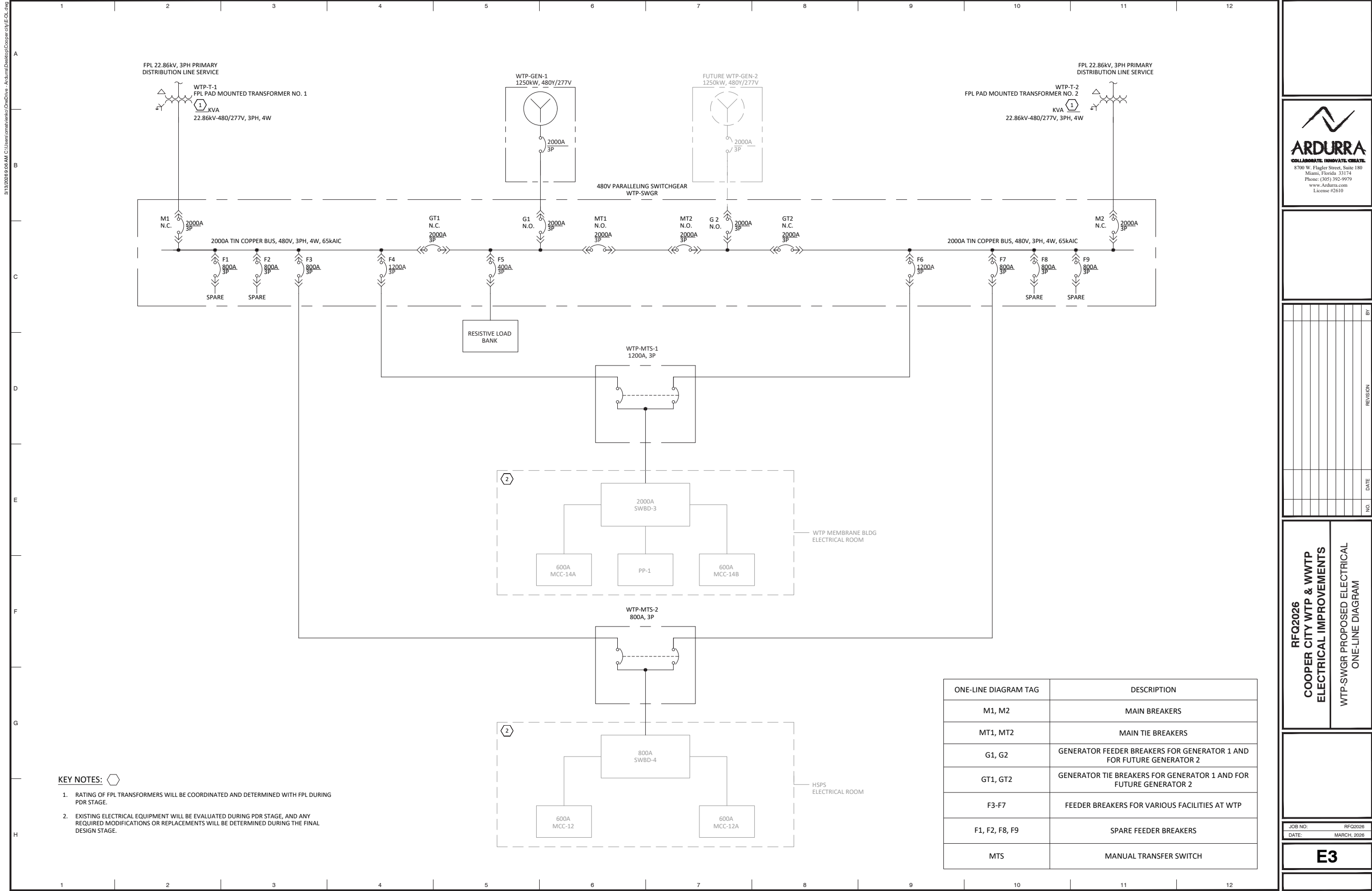
OVERALL WTP & WWTP ELECTRICAL SITE PLAN

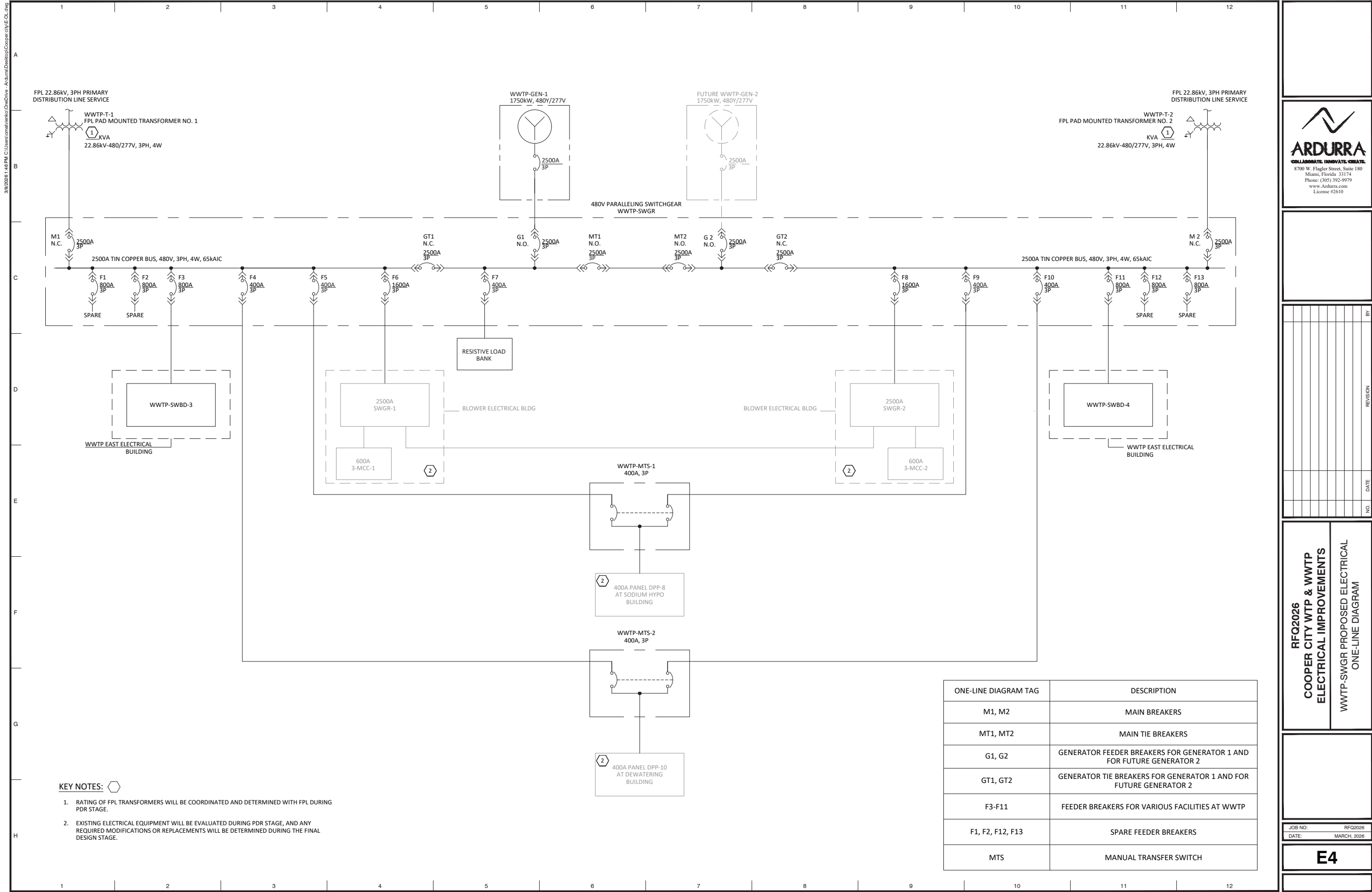


A legend box with a dashed border containing two entries:

- A blue rectangle followed by the text "FUTURE PROCESS UNITS PER MASTER PLAN".
- An orange rectangle followed by the text "PROPOSED NEW ELECTRICAL COMPONENTS".





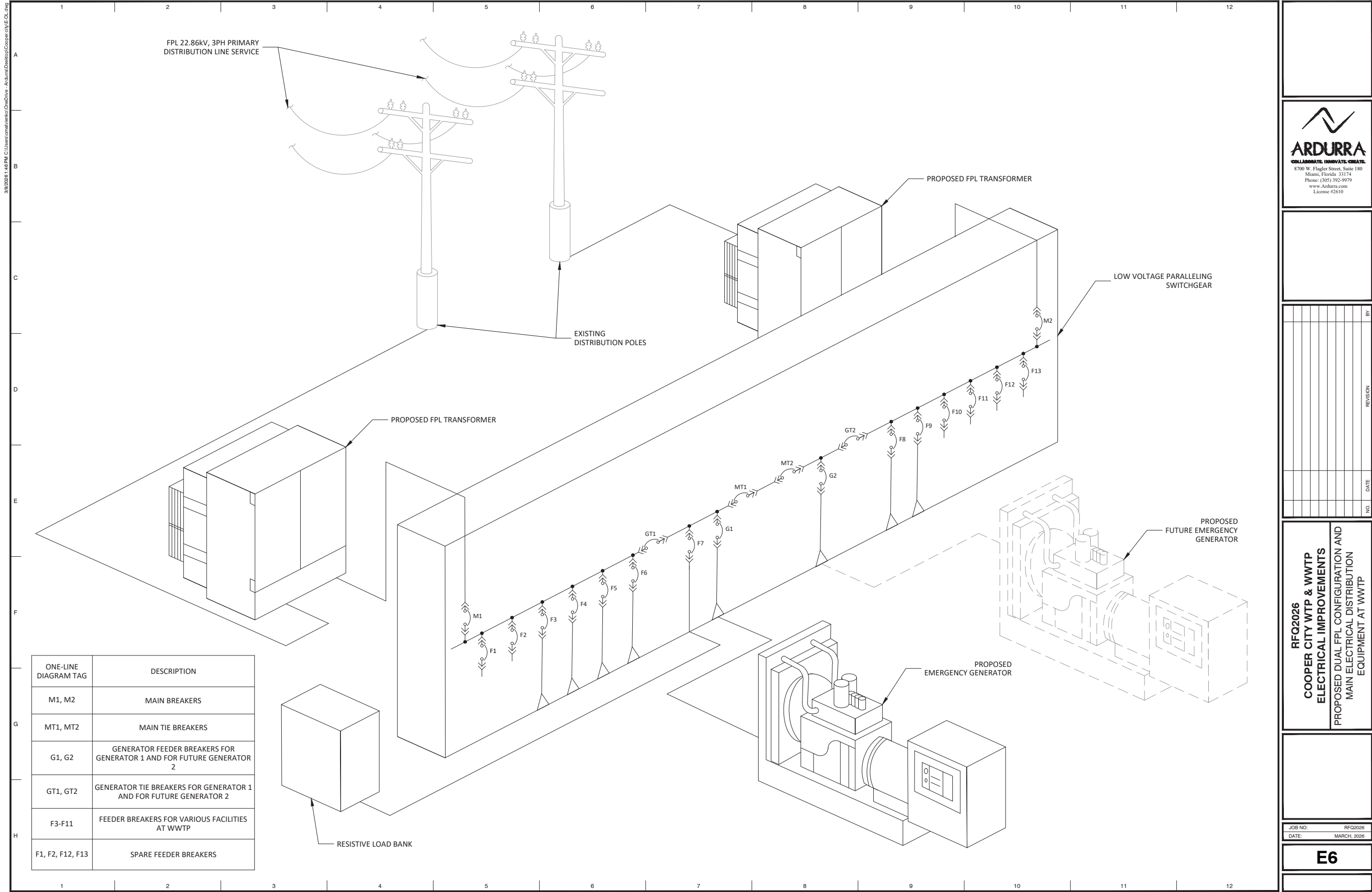


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RFQ2026
COOPER CITY WTP & WWTP
ELECTRICAL IMPROVEMENTS

JOB NO:	RFQ2026
DATE:	MARCH 2026

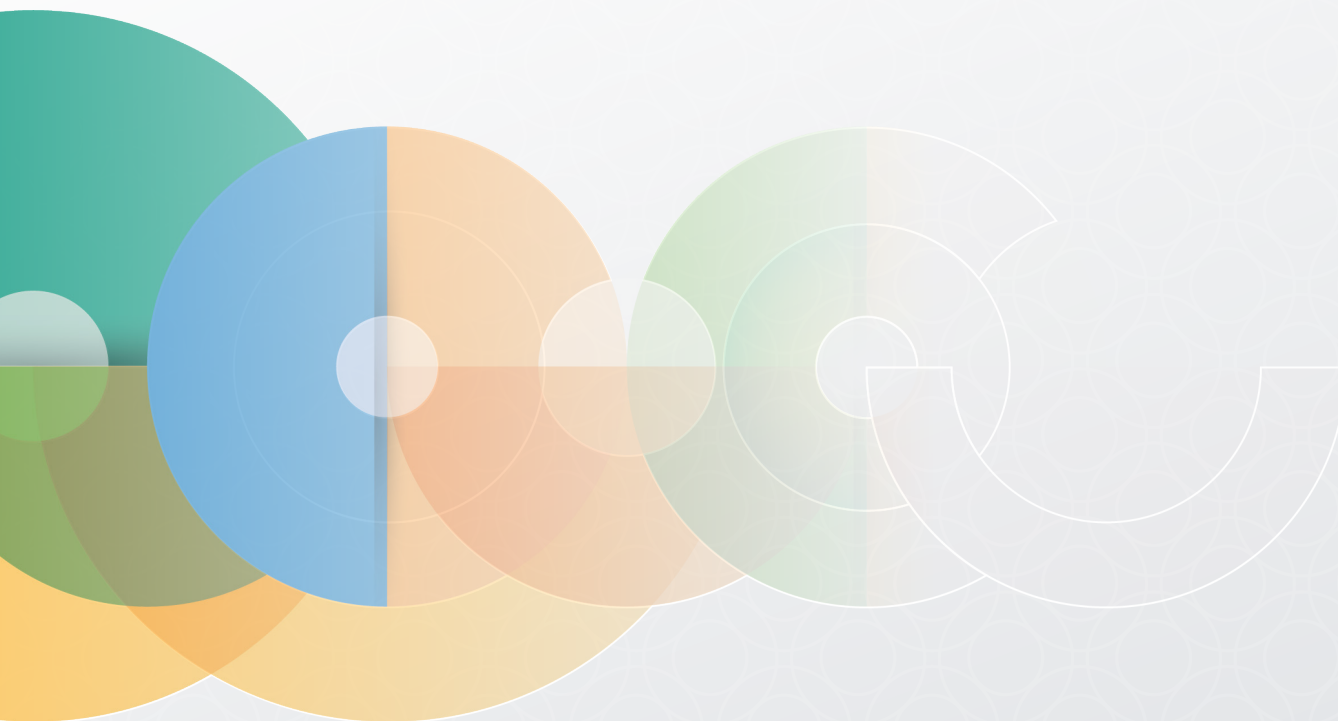
E5



RFQ2026
COOPER CITY WTP & WWTP
ELECTRICAL IMPROVEMENTS
PROPOSED DUAL FPL CONFIGURATION AND
MAIN ELECTRICAL DISTRIBUTION
EQUIPMENT AT WWTP

JOB NO: RFQ2026
DATE: MARCH, 2026

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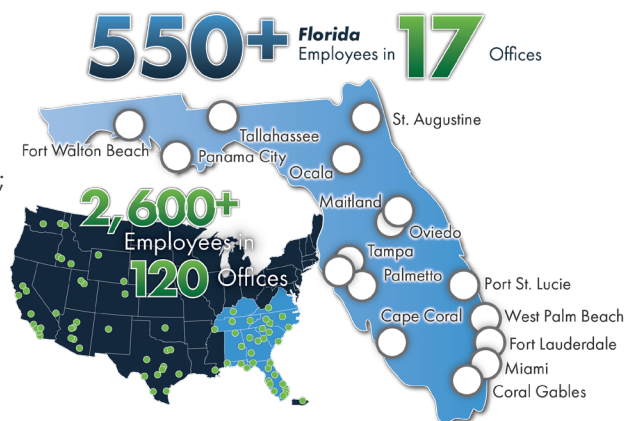


TAB 7 | EXPERIENCE AND QUALIFICATIONS OF FIRM

Experience and Qualifications of Firm

Firm Overview

Ardurra is a multi-discipline engineering firm that provides services to public agencies and private sectors dating back to December 1977. As an ENR Top 500 ranked firm, we set out to build and grow a culture-focused firm with the driving philosophy centered around providing opportunities for our employees and exceptional service to our clients. Nationwide, Ardurra has over 2,600 employees in 120 offices which includes subject matter experts; grant managers; professional civil, structural, transportation, environmental, mechanical and electrical engineers; environmental scientists; ecologists; surveyors; Geographic Information System (GIS) professionals; land planners; certified construction managers; and water and wastewater plant operators. **Ardurra has 550+ employees in 17 offices throughout Florida to support this project, backed by our national workforce. For 48 years, Ardurra's Florida principals have been committed to local municipal, county and utility clients— large and small—to address their water, wastewater, drainage, flood control, and roadway infrastructure challenges.**



Ardurra brings over four decades of multidisciplinary engineering experience providing electrical design and related professional services for water and wastewater treatment plants, pump stations, and municipal utility facilities. Our team includes electrical engineers with longstanding municipal water/wastewater experience, providing design of power distribution systems, standby/backup power, MCC, instrumentation, SCADA interfaces, and other electrical systems for treatment plants and pumping facilities. Ardurra has delivered engineering services, inclusive of electrical system design coordination, on numerous Florida projects, such as:

- Lovegrove WTP Electrical Upgrades
- Peters Creek WRF Expansion
- Central District WWTP Improvements
- Fleming Island WWTF Electrical Improvements

The leadership of our firm and, more importantly, the individuals proposed to deliver projects for you are familiar, trusted friends. We established the firm to provide the most efficient delivery of client-driven, innovative and customized solutions to state and local government entities. While engineering and consulting firms across the country continue to combine into “mega firms” leading to staggering overheads and difficulties maintaining local service mentalities, Ardurra broke from this mold to create this ideal partnership that focuses on personalized services from proven professionals. **One of Ardurra's foundational philosophies is our unwavering commitment to our clients.**

Many of us came from large, global firms and broke free to develop a more altruistic, ownership approach to every project that is unencumbered by the costs and hassles of multiple layers of corporate overhead and red tape. Our strategy to accomplish this goal is grounded in a genuine desire to partner with you as both a professionally and personally invested stakeholder in your ultimate success. From inception to implementation to operation, Ardurra delivers excellence. We understand your project needs by providing optimal solutions, respect your financial resources by being innovative and efficient, and value your time by being prompt and responsive.



Company Information

900 SE 3rd Avenue
Suite 203
Ft. Lauderdale, FL 33316
www.ardurra.com

Contact Person

Jeremy Koch, PE
Project Manager
jkoch@ardurra.com
305.807.2955

Business Structure

Corporation

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Lovegrove WTP Electrical Upgrades, JEA, FL

Name(s) and role(s) of key personnel working on this reference project:

Agata Ristow, PE - Lead Electrical Engineer; Chad Morris, PE - Instrumentation QA/QC Engineer; Ted Hortenstine, PE - Lead Mechanical Engineer; Daniel Stevenson, PE - Electrical Engineer; Manasi Parekh, PE – Permitting; Camryn Swain, PE - Civil Engineer

Reference Project Description:

Ardurra served as Engineer of Record for the Lovegrove Water Treatment Plant electrical improvements project, designing and permitting a modern, redundant electrical and control system—including dual utility feeds, emergency generation, a main-tie-main MCC, new VFDs, PLC controls, and a dedicated climate-controlled electrical building—to replace aging, obsolete infrastructure and enhance reliability, safety, and operational resilience for this critical 8.31 MGD facility serving JEA's distribution system.

Scope of Service Provided: Installation of a main-tie-main MCC and four new VFDs; New electrical system

Professional Fees: \$ 500,000 **Project Start Date:** 2/23 **Project Completion Date:** 2/24

Construction Start Date: 2/24 **Construction Completion Date:** N/A

A: Project Construction Cost: \$6,239,357 **B: Professional Fees:** \$ 500,000 **Total Project Cost (A+B):** 6,739,357

Reference Company Name: JEA

Reference Name: Vielka Garcia, Project Manager

Reference Phone Number: 904.696.9994

E-mail: garcvm2@jea.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

WTP Electrical Upgrades

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project

SCOPE:

- » Installation of a main-tie-main MCC and four new VFDs
- » New electrical system

LOCATION:

Jacksonville, FL

COST:

\$6,239,357

YEAR COMPLETED:

2024

CLIENT:

JEA

Vielka Garcia, Project Manager, Water/Wastewater Project Engineering & Construction
904.696.9994
garcvm2@jea.com

KEY PERSONNEL:

- » Agata Ristow, PE - Lead Electrical Engineer
- » Chad Morris, PE - Instrumentation QA/QC Engineer
- » Ted Hortenstine, PE - Lead Mechanical Engineer
- » Daniel Stevenson, PE - Electrical Engineer
- » Manasi Parekh, PE - Permitting
- » Camryn Swain, PE - Civil Engineer

LOVEGROVE WTP ELECTRICAL UPGRADES

JEA, FL



ARDURRA was the engineer of record for the electrical improvements project at the Lovegrove Water Treatment Plant (WTP). The Lovegrove WTP was originally constructed in 1972 and has a FDEP permitted capacity of 8.31 million gallons per day (MGD) at maximum daily flow (MDF). The Lovegrove WTP has one on-site and two off-site production wells that pump raw water to an aeration pipe to two 1 MG ground storage reservoirs that operate in series. Sodium hypochlorite is added upstream of the high-service pumps (HSP). The sodium hypochlorite injection pumps, storage tank and controls are housed in a covered concrete containment facility on the west side of the treatment plant site.

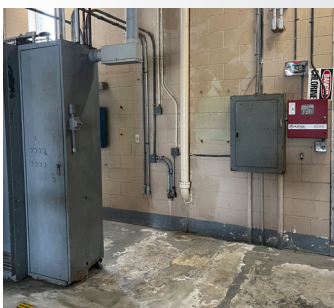
Most of the Lovegrove unit processes had recently been upgraded except for the electrical and control systems and wiring, making the electrical system a potential weak link in a plant that provides reliable water pressure to JEA's distribution grid. The MCC and most of its components were approaching 50 years and replacement parts were either obsolete or difficult to find. The Siemens SCADA controls were installed in the early 2000s and the majority of the controls equipment was connected through the original control location. The electrical distribution gear was installed within the pump station building that also hosted an artesian well, resulting in a risk that water could damage the 480V MCC during well pump removal and rehabilitation operations.

Ardurra designed the new electrical distribution system that included two electric utility sources, a generator and associated docking station, a main-tie-main motor control center, 4 new VFDs, one for each distribution pumps and starters for all the plant ancillary load. A new control system comprised of a new Programmable Logic Controller (PLC) and network rack were also added to the site. A new electrical building was added to the site to host the proposed electrical distribution equipment in an air conditioned environment.

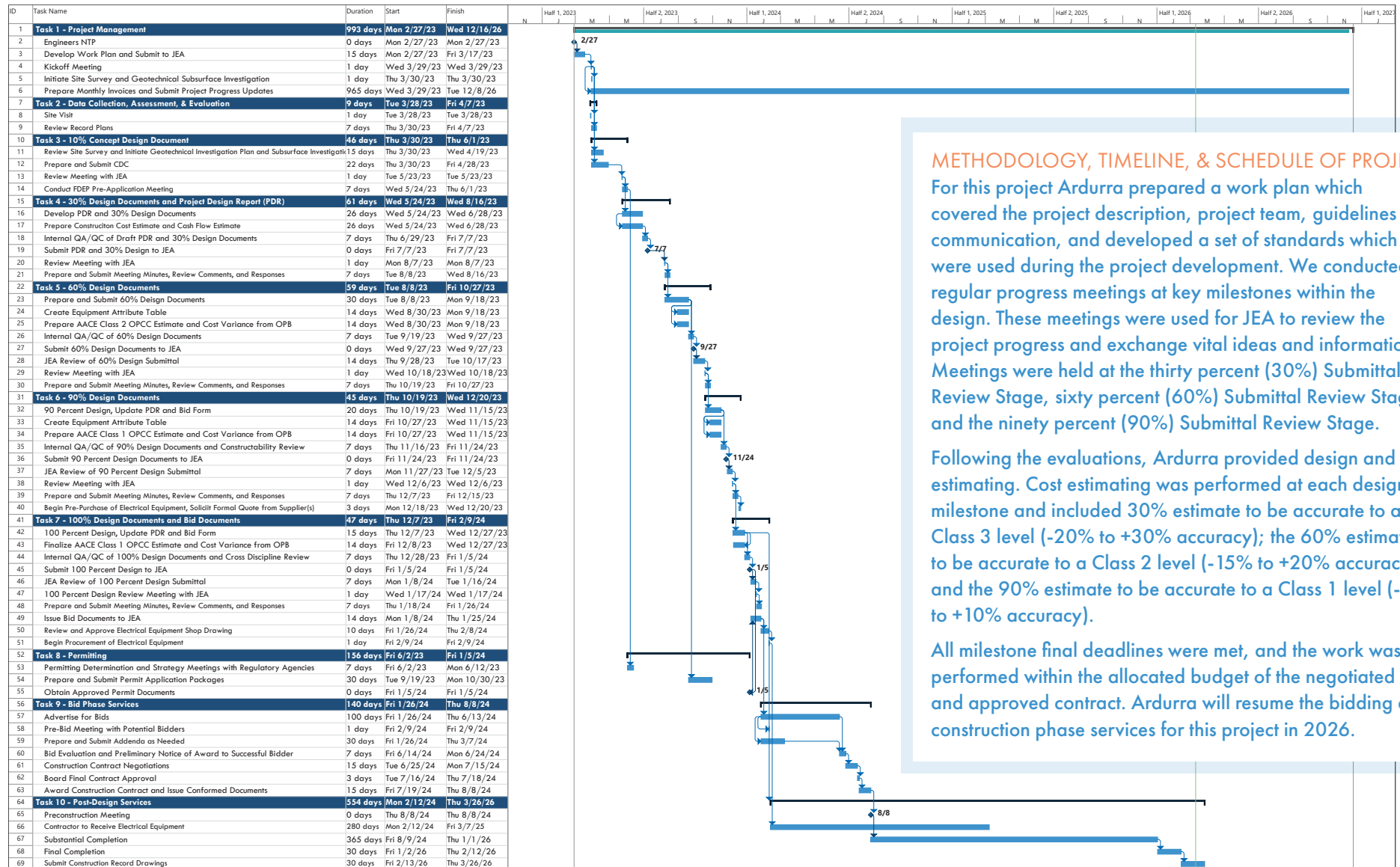
Ardurra prepared permitting applications for FDEP Specific Permit to Construct PWS Components, FDEP (SJRWMD) ERP Stormwater Permit, City of Jacksonville Planning and Zoning Permit, and FM Global Permit for new roof and building.

CHALLENGE: The plant's aging and obsolete electrical and control systems posed reliability and safety risks, including limited replacement parts, outdated SCADA, and electrical gear located in a pump station with flood and water damage exposure, all within a critical facility serving JEA's distribution system.

SOLUTION: Ardurra designed a **modern, redundant electrical and control system** with dual utility feeds, emergency generation, a main-tie-main MCC, new VFDs and PLC controls, and a dedicated, climate-controlled electrical building, while successfully coordinating all required permits.



LOVEGROVE WTP ELECTRICAL UPGRADES (CONT.)



METHODOLOGY, TIMELINE, & SCHEDULE OF PROJECT

For this project Ardurra prepared a work plan which covered the project description, project team, guidelines for communication, and developed a set of standards which were used during the project development. We conducted regular progress meetings at key milestones within the design. These meetings were used for JEA to review the project progress and exchange vital ideas and information. Meetings were held at the thirty percent (30%) Submittal Review Stage, sixty percent (60%) Submittal Review Stage, and the ninety percent (90%) Submittal Review Stage.

Following the evaluations, Ardurra provided design and cost estimating. Cost estimating was performed at each design milestone and included 30% estimate to be accurate to a Class 3 level (-20% to +30% accuracy); the 60% estimate to be accurate to a Class 2 level (-15% to +20% accuracy); and the 90% estimate to be accurate to a Class 1 level (-5% to +10% accuracy).

All milestone final deadlines were met, and the work was performed within the allocated budget of the negotiated and approved contract. Ardurra will resume the bidding and construction phase services for this project in 2026.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

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Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Peters Creek WRF Expansion & Effluent Management, Green Cove Springs, FL

Name(s) and role(s) of key personnel working on this reference project: Agata Ristow, PE - Electrical Q/QC; Chad Morris, PE - Instrumentation Q/QC; Manasi Parekh, PE - Process Mechanical; Donal Phillips, PE - Structural Engineer; Camryn Swain, PE - Project Engineer

Reference Project Description: Ardurra provided planning, design, permitting, bidding, and construction engineering services for the Peters Creek WRF Expansion and Effluent Management Project, delivering a Class I reliable, fully coordinated electrical power distribution system, with dual feeds, standby generation, dedicated electrical buildings, and expansion-ready infrastructure, to support a new 1.5 MGD (expandable to 10 MGD) facility and associated off-site reclaimed water systems.

Scope of Service Provided: Class I reliable electrical systems; New 480V electrical distribution; Support for future expansions

Professional Fees: \$4,300,000 **Project Start Date:** 5/21 **Project Completion Date:** 5/25

Construction Start Date: 5/23 **Construction Completion Date:** 5/25

A: Project Construction Cost: \$60,000,000 **B: Professional Fees:** \$ 4,300,000 **Total Project Cost (A+B):** 64,300,000

Reference Company Name: Clay County Utility Authority **Reference Name:** Darrel Damrow, Chief Engineer

Reference Phone Number: 904.213.2426 **E-mail:** ddamrow@clayutility.org

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Engineering Services for WRF expansion ,with emphasis on electric

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project.

SCOPE:

- » Class I reliable electrical systems
- » New 480V electrical distribution
- » Support for future expansions

LOCATION:

Green Cove Springs, FL

COST:

\$60,000,000

YEAR COMPLETED:

2025

CLIENT:

Clay County Utility Authority
Darrel Damrow,
Chief Engineer
904.213.2426
ddamrow@clayutility.org

KEY PERSONNEL:

- » Agata Ristow, PE - Electrical Q/QC
- » Chad Morris, PE - Instrumentation Q/QC
- » Manasi Parekh, PE - Process Mechanical
- » Donal Phillips, PE - Structural Engineer
- » Camryn Swain, PE - Project Engineer

PETERS CREEK WRF EXPANSION & EFFLUENT MANAGEMENT

Clay County Utility Authority, FL



ARDURRA provided planning, design, permitting, bidding services, and engineering services during construction for the Peters Creek Water Reclamation Facility (WRF) Expansion and Effluent Management Project, with a strong emphasis on electrical power distribution, reliability, and facility resiliency. As part of a comprehensive regional evaluation of the Governors Park and Peters Creek service areas, Ardurra supported population and flow projections, ultimate buildout planning, and cost/benefit analyses that resulted in development of a new greenfield WRF with an initial capacity of 1.5 MGD annual average daily flow (AADF), expandable to 10 MGD AADF, along with associated lift stations and force mains.

The electrical scope includes design of Class I reliable power systems to ensure that no single electrical fault or loss of power can disable more than half of the facility. Electrical improvements include new 480V electrical distribution systems, pad-mounted utility transformers, standby diesel generation, generator and transformer pads, and power distribution to major treatment processes, including headworks screening, odor control, biological treatment, Return Activated Sludge (RAS)/Waste Activated Sludge (WAS) pumping, secondary clarifiers, tertiary filtration, disinfection systems, and biosolids processing facilities.

Ardurra designed electrical systems for multiple plant support facilities, including two dedicated electrical buildings, an operations building, chemical building, in-plant pump station, reuse pump station, wet weather pump station, and refurbishment of the reject pump station. Electrical designs also support future expansion components, including an anaerobic basin, Class A biosolids facilities, and additional process equipment.

Off-site electrical design elements support reclaimed water and effluent management infrastructure, including power and controls for a new lift station, reclaimed water pump stations, augmentation wells producing approximately 0.8 MGD, and associated force mains and reuse mains. All electrical systems were coordinated with process, mechanical, and instrumentation and control (I&C) disciplines to ensure safe operation, regulatory compliance, and long-term system reliability.

CHALLENGE: Key challenges included providing Class I reliability to prevent a single fault from disabling major portions of the plant, coordinating electrical systems with complex mechanical and I&C equipment, and accommodating future expansions while maintaining operational continuity.

SOLUTION: Ardurra designed a robust electrical system with dual utility feeds, standby generation, pad-mounted transformers, and dedicated electrical buildings, ensuring reliable power to all processes, support facilities, and off-site pump stations while coordinating with process, mechanical, and I&C systems for resiliency and future expansion.



EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

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Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Vieques WWTP Electrical Improvements, Vieques, PR

Name(s) and role(s) of key personnel working on this reference project:

Daniel Stevenson, PE - Electrical Engineer; Ana Dvorak, ENV SP - Project Engineer; Edmundo Rodriguez, PE (Green Dade) - Electrical Engineer Support; Henry Pulido, PMP - Control and Instrumentation Engineer

Reference Project Description: Ardurra provided comprehensive design services for the Vieques WWTP upgrade, replacing the aging 0.5 MGD package plant with two 0.3 MGD 4-stage Bardenpho BNR units, modernizing headworks and support systems, and integrating a corrosion-resistant, storm-resilient design with a photovoltaic and Tesla Megapack battery system to ensure reliable, renewable-powered operation for this remote coastal facility.

Scope of Service Provided: Enhanced capacity to 0.6 MGD; Design and integrate PV system with 1,556 new solar panels

Professional Fees: \$1,576,850 **Project Start Date:** 2/22 **Project Completion Date:** 5/24

Construction Start Date: 1/24 **Construction Completion Date:** N/A

A: Project Construction Cost: \$6,000,000 (Est.) **B: Professional Fees:** \$1,576,850 **Total Project Cost (A+B):** \$7,576,850 Est.

Reference Company Name: Puerto Rico Aqueduct & Sewer Authority **Reference Name:** Eliud Vega, PE, ERCA

Reference Phone Number: 787.420.5900 **E-mail:** evega@ecreng.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

WWTP Electrical Improvements

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project.

SCOPE:

- » Enhanced capacity to 0.6 MGD
- » Design and integrate PV system with 1,556 new solar panels

LOCATION:

Vieques, PR

COST:

\$6,000,000 (Est.)

YEAR COMPLETED:

2024

CLIENT:

Black & Veatch Puerto Rico PSC

Puerto Rico Aqueduct and Sewer Authority (Ultimate Client)

Eliud Vega, PE, ERCE
787.420.5900

evega@ecreng.com

KEY PERSONNEL:

- » Daniel Stevenson, PE
- Electrical Engineer
- » Ana Dvorak, ENV SP
- Project Engineer
- » Edmundo Rodriguez, PE (Green Dade) - Electrical Engineer Support
- » Henry Pulido,
PMP - Control and Instrumentation Engineer

VIEQUES WWTP ELECTRICAL IMPROVEMENTS

Vieques, PR



ARDURRA was engaged to provide comprehensive design services for a major upgrade of the Vieques Wastewater Treatment Plant (WWTP). The Vieques VWWTP, originally constructed in 1990, is situated on the north side of Vieques. Over the years, the facility has been heavily exposed to major storms and constant saltwater spray, which has significantly accelerated corrosion throughout the plant. In addition to structural degradation, all treatment processes required modernization due to aging equipment, storm damage, and the effects of corrosion. Non-process systems, including the emergency generator, OSHA-compliant railings and gratings, and operational spaces, also needed upgrades to ensure safety, reliability, and continued functionality. The project involved replacing the existing 0.5 MGD steel-ring package treatment unit with two new 0.3 MGD, state-of-the-art 4-stage Bardenpho Biological Nutrient Removal (BNR) treatment units. The upgrades also included the construction of a new headworks structure with mechanical screens and vortex grit removal units, a new septage receiving station, and the conversion of the Martino Pump Station to an influent pump station. **The design emphasized resilience against climatic impacts and saltwater corrosion, equipment redundancy to ensure continuous operation during adverse weather events, and an overall increase in the service life of the plant.**



In addition to treatment system improvements, the project included the preliminary design and viability assessment of a photovoltaic (PV) system and battery backup to provide renewable energy and enable the plant to operate for up to 48 hours without recharging. The battery backup system incorporated three Tesla Megapack XL units, each with a minimum storage capacity of 3,854 kWh and a 2-hour discharge rate of 1,927 kW/2,400 kVA, allowing continuous operation for more than 2.8 days. The PV system integrated 1,556 new solar panel modules generating 430 Wdc each, complementing the existing 192 kWac array. Twelve 62.5 kW inverters and one 50 kW inverter were added, increasing the overall capacity by 800 kWac to a total of 992 kWac. The system is anticipated to produce 4,153 kWh per day, providing a reliable, renewable energy source for the plant while remaining below the 1 MWac threshold, thereby complying with LUMA Regulation 8915 without requiring connection to transmission lines.

CHALLENGE: The Vieques WWTP faced major challenges due to aging equipment, severe corrosion from saltwater exposure, and damage from storms, which compromised both operations and safety. Its remote location also made reliable power supply difficult during emergencies.

SOLUTION: Ardurra addressed these challenges by installing two 0.3 mgd Bardenpho BNR units, upgrading infrastructure, and adding redundancy. A PV system with Tesla Megapacks provides up to 48 hours of independent operation, improving resiliency and extending the plant's service life.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

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Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

REHABILITATION OF QUEBRADILLAS WTP AND RAW WATER INTAKE

Name(s) and role(s) of key personnel working on this reference project:

Daniel Stevenson, PE - Electrical Engineer; Agata Ristow, PE - Lead Electrical Engineer; Edmundo Rodriguez, PE (Green Dade) - Electrical Engineer; Henry Pulido, PMP - Control and Instrumentation Engineer

Reference Project Description: Ardurra provided engineering design for comprehensive electrical, power, automation, and renewable energy upgrades at the 5.0 MGD Quebradillas WTP, integrating a new emergency generator, 1 MW photovoltaic system, and battery storage with modernized treatment and sludge systems to enhance reliability, resiliency, operational efficiency, and long-term sustainability for this remote facility.

Scope of Service Provided: Electrical and automation system upgrades; Installation of a new 950 kW emergency diesel generator

Professional Fees: \$1,576,850 **Project Start Date:** 3/23 **Project Completion Date:** 4/24

Construction Start Date: 8/24 **Construction Completion Date:** N/A

A: Project Construction Cost: \$60,000,000 (Est.) **B: Professional Fees:** \$1,576,850 **Total Project Cost (A+B):** \$61,576,850 Est.

Reference Company Name: Puerto Rico Aqueduct & Sewer Authority **Reference Name:** Omayra Santos PE

Reference Phone Number: 787.949.9945 **E-mail:** osantos@cmapr.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Engineering design services for extensive electrical, power, and automation upgrades across WTP

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project.

SCOPE:

- » Electrical and automation system upgrades
- » Installation of a new 950 kW emergency diesel generator

LOCATION:

Quebradillas, PR

COST:

\$60,000,000 (Est.)

YEAR COMPLETED:

2024

CLIENT:

Jacobs Caribe
Puerto Rico Aqueduct and
Sewer Authority (Ultimate
Client)
Omayra Santos, PE
787.949.9945
osantos@cmapr.com

KEY PERSONNEL:

- » Daniel Stevenson, PE
- Electrical Engineer
- » Agata Ristow, PE - Lead
Electrical Engineer
- » Edmundo Rodriguez,
PE (Green Dade) -
Electrical Engineer
- » Henry Pulido,
PMP - Control and
Instrumentation Engineer



REHABILITATION OF QUEBRADILLAS WTP & RAW WATER INTAKE

Quebradillas, PR



ARDURRA provided engineering design services for electrical, power, and automation upgrades at the Quebradillas Water Treatment Plant (WTP) and associated Raw Water Intake (RWI) station, with Green Dade (GD) serving as the Electrical and I&C Engineer of Record for the new high-voltage service interconnection and microgrid integration. Located in the Municipality of Quebradillas, the WTP was originally constructed in 1962 and has a current treatment capacity of 5.0 MGD, serving approximately 27,000 residents. **Because of the facility's critical public service function, the design incorporated operational and construction phasing measures to maintain continuous plant operations throughout implementation.**

The work included front-end electrical reconfiguration through the extension of approximately 1,000 feet of 38 kV overhead utility line, development of a new 38 kV to 4.16 kV substation, and redesign of the service entrance and distribution system to provide a more reliable and resilient power supply. The project also integrated a utility-interactive microgrid consisting of approximately 1 MW of photovoltaic generation, 8 MWh of battery energy storage, and a 900 kW prime-rated generator, with advanced microgrid controls to support coordinated source dispatch, energy resiliency, and islanded operation during catastrophic events or extended utility power outages. A key element of the assignment involved relocating the RWI service from the unreliable legacy 4 kV source to the new 38 kV substation and microgrid-supported plant electrical system. Supporting work included thermographic assessment of approximately 1.7 km of private overhead line infrastructure and completion of arc flash, short circuit, load flow, and protection studies to validate the new service configuration. The design phase has been completed, and the project is currently being advertised for construction.

CHALLENGE: The combined WTP and RWI system faced aging infrastructure, process limitations, and unreliable power service from an overloaded legacy 4 kV source. These conditions required a new resilient power architecture integrating a high-voltage interconnection, substation, microgrid, standby generation, battery storage, and photovoltaic generation, while maintaining full operations and minimizing public service disruptions.

SOLUTION: Ardurra and Green Dade developed a resilient power architecture for the WTP and RWI, including a new high-voltage utility interconnection, substation, and upgraded electrical distribution and controls. The integrated system provides four layers of reliability and enables autonomous off-grid operation during catastrophic events or extended power outages. **These improvements enhanced resiliency, improved operational continuity, and provided a sustainable energy solution for the overall water treatment system.**

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

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Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Central District WWTP Improvements, Miami, FL

Name(s) and role(s) of key personnel working on this reference project:

Ana Dvorak, ENV SP - Project Manager

Reference Project Description:

As part of the improvements at Miami-Dade's Central District WWTP, Ardurra provides electrical and demolition engineering services, designing new substations, transferring and upgrading critical loads, and removing obsolete aeration trains and utilities, while maintaining uninterrupted operations and supporting increased treatment capacity under the Ocean Outfall Legislation Program.

Scope of Service Provided: Electrical design and upgrades; Demolition services; Planning, permitting, and compliance

Professional Fees: \$ 6,503,321 **Project Start Date:** 12/22 **Project Completion Date:** / Ongoing

Construction Start Date: N/A **Construction Completion Date:** N/A

A: Project Construction Cost: B: **Professional Fees:** \$ 6,503,321 **Total Project Cost (A+B):** \$ N/A

Reference Company Name: MDWASD, FL

Reference Name: Amaury Betancourt, PhD, PE, Director

Reference Phone Number: 786.552.8030

E-mail: amaury.betancourt@miamidade.gov

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

WWTP electrical design and upgrades

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project.

SCOPE:

- » Electrical design and upgrades
- » Demolition services
- » Planning, permitting, and compliance

LOCATION:

Miami, FL

COST:

N/A

YEAR COMPLETED:

Ongoing

CLIENT:

Miami-Dade Water and Sewer Department
 Amaury Betancourt, PhD, PE,
 Director
 786.552.8030
 amaury.betancourt@miamidade.gov

KEY PERSONNEL:

- » Ana Dvorak, ENV SP
 - Project Manager

CENTRAL DISTRICT WWTP IMPROVEMENTS (CT-3B)

Miami-Dade Water and Sewer Department, FL



The Central District WWTP, operated by the Miami-Dade Water and Sewer Department (MDWASD), is a critical facility serving Miami-Dade County. Under the Ocean Outfall Legislation (OOL) Program and Consent Decree, MDWASD is implementing capital improvements to modernize aging infrastructure, increase treatment capacity, and reduce reliance on ocean outfalls through deep injection wells and advanced treatment processes.

Project CT-3B focuses on process improvements, demolition of obsolete aeration tanks, and pipe gallery upgrades to maintain the plant's permitted annual average daily flow (143 MGD) and increase peak hour flow capacity to 335 MGD.

As part of the delivery team, Ardurra provides specialized electrical and demolition engineering services. For electrical design, Ardurra is developing new substations (50/51 and 54/55) to replace existing substations 19A/20A, supporting P1 oxygenation trains, final clarifiers, and associated RAS/WAS pump stations. The scope includes load assessments, transfer of electrical loads, replacement of obsolete control equipment, and integration with new Electrical Distribution Buildings (EDB3), ensuring reliable operation and seamless system coordination.



For demolition, Ardurra is responsible for removing two decommissioned aeration trains and associated pipe galleries, utilities, and concrete structures. The work includes permanent relocation of North-South Pipe Gallery utilities, protection of active Main Pipe Gallery utilities, and compliance with environmental standards such as asbestos and lead-based paint surveys. The project also addresses stormwater management, permitting coordination, and site stabilization, with a preliminary construction schedule and Opinion of Probable Construction Cost prepared to ensure uninterrupted plant operations and readiness for future process improvements.

CHALLENGE: The WWTP contained aging aeration tanks, outdated electrical substations, and a complex mix of active and abandoned utilities limited the plant's treatment capacity and complicated construction, all while requiring uninterrupted operations at Central District WWTP.

SOLUTION: Ardurra upgraded the plant's electrical infrastructure, demolished obsolete aeration tanks, and relocated utilities while **ensuring environmental compliance and operational continuity, enabling a modernized, reliable wastewater treatment system.**

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Tribalwide SCADA Services & Telemetry Improvements, Seminole Tribe of Florida, FL

Name(s) and role(s) of key personnel working on this reference project

Ana Dvorak, ENV SP - Project Manager; Henry Pulido, PMP - Control and Instrumentation Engineer

Reference Project Description:

Ardurra provided design, installation, and integration of upgraded SCADA and telemetry systems for the Seminole Tribe of Florida's water and wastewater utilities—enhancing lift station standards, enabling remote monitoring across multiple reservations, and developing a Tribalwide SCADA Hardening Master Plan to deliver a secure, reliable, and scalable network for critical infrastructure.

Scope of Service Provided:

Upgrade lift station electrical systems; Compliance with electrical codes and safety standards

Professional Fees: \$1,100,000 **Project Start Date:** 5/19 **Project Completion Date:** / Ongoing

Construction Start Date: 7/20 **Construction Completion Date:** / Ongoing

A: Project Construction Cost: \$8,000,000 **B: Professional Fees:** \$1,100,000 **Total Project Cost (A+B):** 9,100,000

Reference Company Name: Seminole Tribe of Florida

Reference Name: Emran Rahaman

Reference Phone Number: 954-894-1060; Ext. 10923 **E-mail:** emranrahaman@semtribe.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Lift station upgrades for SCADA and electrical requirements

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provide for this project.

SCOPE:

- » Upgrade lift station electrical systems
- » Compliance with electrical codes and safety standards

LOCATION:

Seminole Tribe of Florida, FL

COST:

\$8,000,000

YEAR COMPLETED:

Ongoing

CLIENT:

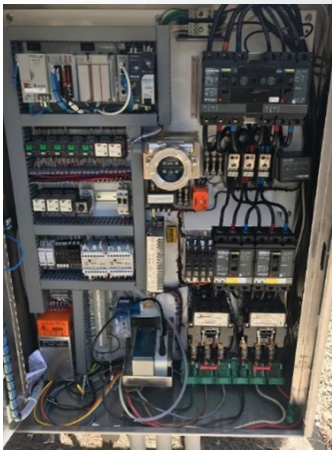
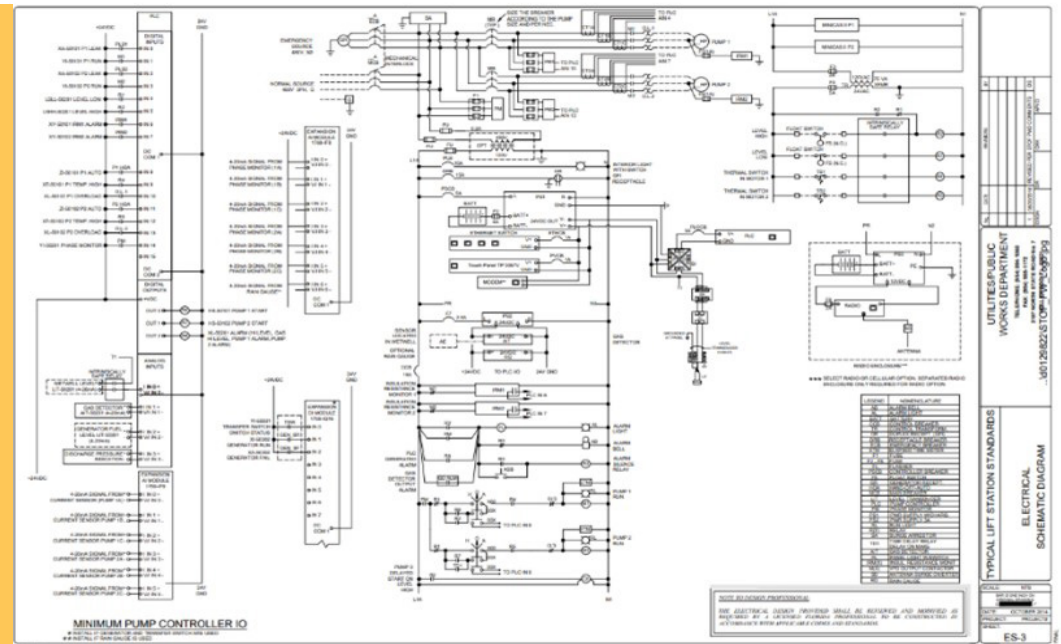
Seminole Tribe of Florida –
Public Works Department
Emran Rahaman, Director of
Public Works
954-894-1060; Ext. 10923
emranrahaman@semtribe.com

KEY PERSONNEL:

- » Ana Dvorak, ENV SP
- Project Manager
- » Henry Pulido,
PMP - Control and
Instrumentation Engineer

TRIBALWIDE SCADA SERVICES AND TELEMETRY IMPROVEMENTS

Seminole Tribe of Florida, FL



ARDURRA provided the design, fabrication/delivery, installation, and system integration required for the Seminole Tribe of Florida's (STOF) SCADA system. The STOF Public Works Department owns, operates, and maintains water and wastewater utilities within its four main reservations. These utilities consist of supply systems, treatment plants, distribution systems, storage tanks, collection, and transmission systems, among other facilities. The Tribe's SCADA system is used to monitor, control, and operate these facilities. **The main priorities identified by the STOF is to perform updates to the lift station standards for the SCADA and electrical requirements and install a telemetry system for the Reservations' high priority lift stations.** The new telemetry system will allow remote monitoring and control of these lift stations using the existing SCADA system. The installation of a new telemetry system for high-priority lift stations at the major reservations (Brighton, Big Cypress, Hollywood, and Immokalee) includes assessing existing equipment, identifying upgrades needed to meet new electrical and telemetry requirements, and performing radio propagation surveys to determine the optimal wireless network design. The work also includes telemetry system design for remote sites and the main radio location; topographic and geotechnical investigations; stakeholder coordination; permitting and FCC licensing support; procurement assistance; engineering services during construction; and preparation of final drawings and project certification. Moreover, Ardurra developed a Tribalwide Anti-Terrorism Water/Wastewater SCADA Hardening Master Plan with the objective of providing a new segregated SCADA network that is secure, reliable, functional and scalable for the STOF's seven water and wastewater treatment plants. As part of this project Ardurra provided site assessments to each water & wastewater treatment facility, including but not limited to assessment of treatment processes and operations procedures for raw water well supplies, membrane filtration systems, chemical dosing, chlorination, treated water storage & distribution, wastewater transmission, sequencing batch reactor (SBR) treatment system, disinfection, and disposal via deep well injection.

CHALLENGE: STOF's water and wastewater systems had aging lift stations, limited remote monitoring, and security vulnerabilities across multiple facilities, making operations inefficient and exposing critical infrastructure to potential threats.

SOLUTION: Ardurra upgraded lift station standards, installed telemetry systems for high-priority stations, optimized wireless communications, and developed a Tribalwide SCADA Hardening Master Plan to **create a secure, reliable, and scalable SCADA network across all facilities.**

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Ardurra Group, Inc.

Reference Project Name/Address:

Fleming Island WWTF Electrical Upgrades

Name(s) and role(s) of key personnel working on this reference project:

Agata Ristow, PE - Lead Electrical Engineer; Chad Morris, PE - SCADA/I&C

Reference Project Description:

Ardurra prepared a Preliminary Design Report for the Fleming Island Electrical Improvements, replacing obsolete distribution equipment and undersized generators with a new main-tie-main switchboard, full-capacity standby generator, new MCCs, and a dedicated electrical building to enhance reliability, redundancy, safety, and long-term operational resiliency.

Scope of Service Provided:

Existing system evaluation; Main breaker replacement; ATS replacement, Switchboard replacement; New main-tie-main switchboard; Automatic throw-over scheme, New standby generator; Three new MCCs

Professional Fees: \$ 169,912 **Project Start Date:** 3/21 **Project Completion Date:** 2/24

Construction Start Date: / TBD **Construction Completion Date:** / Ongoing

A: Project Construction Cost: N/A **B: Professional Fees:** \$ 169,912 **Total Project Cost (A+B):** N/A

Reference Company Name: Clay County Utility Authority **Reference Name:** Darrel Damrow

Reference Phone Number: 904.213.2426 **E-mail:** ddamrow@clayutility.org

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

WWTF electrical upgrades

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Please see the following page for an expanded scope of services provided for this project.

SCOPE:

- » Existing system evaluation
- » Main breaker replacement
- » ATS replacement
- » Switchboard replacement
- » New main-tie-main switchboard
- » Automatic throw-over scheme
- » New standby generator
- » Three new MCCs

LOCATION:

Green Cove Springs, FL

COST:

N/A

YEAR COMPLETED:

Ongoing

CLIENT:

Clay County Utility Authority
Darrel Damrow,
Chief Engineer
904.213.2426
ddamrow@clayutility.org

KEY PERSONNEL:

- » Agata Ristow, PE - Lead Electrical Engineer
- » Chad Morris, PE - SCADA/I&C

FLEMING ISLAND WWTF ELECTRICAL UPGRADES

Clay County Utility Authority, FL



ARDURRA developed a Preliminary Design Report for the Fleming Island Electrical Improvements to address significant deficiencies in the existing electrical infrastructure. The current electrical distribution system consists of antiquated equipment that has exceeded its useful life, presents reliability and maintainability concerns, and no longer meets current operational or safety standards. As a result, comprehensive replacement of the major electrical components is required to ensure reliable power delivery and long-term operational resiliency for the facility. The project scope includes replacement of the existing 1600-amp main circuit breaker, ATS, switchboard, three MCCs, and one power distribution panel with modern, code-compliant electrical equipment. The new electrical system will be designed to support existing plant loads while providing improved redundancy, operational flexibility, and maintainability.

The upgraded electrical infrastructure will include a new main-tie-main switchboard equipped with an automatic throw-over scheme to enhance power reliability and allow seamless transfer between normal and standby power sources. A new standby generator will also be provided, sized to carry the full existing plant load and replace the two existing undersized generators that are currently in service. Additionally, three new MCCs will be installed to provide power distribution and control for the existing process and support equipment throughout the facility. All new electrical distribution equipment will be housed within a new, dedicated, air-conditioned electrical building.

This building will be strategically located between the incoming overhead utility service and the primary plant loads to optimize power distribution, improve accessibility for operations and maintenance staff, and protect sensitive electrical equipment from environmental exposure. Upon completion of the project and successful commissioning of the new electrical system, the existing electrical distribution equipment and the two existing generators will be demolished and removed from service. **This project will significantly improve system reliability, safety, and operational resilience while positioning the facility to meet current codes, standards, and future operational needs.**

CHALLENGE: The primary challenge of the project was the facility's aging and unreliable electrical infrastructure, including obsolete distribution equipment and undersized standby generators that lacked redundancy and posed operational risks.

SOLUTION: The solution included a new main-tie-main switchboard with automatic transfer, a standby generator sized for the full plant load, new MCCs, and a dedicated electrical building, resulting in enhanced safety, maintainability, and long-term operational resilience.



EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Electrical Design Associates, Inc.

Reference Project Name/Address: Westport WWTP Expansion
3721 SW Darwin Blvd.
Port St. Lucie, FL 34953

Name(s) and role(s) of key personnel working on this reference project:

Dameion Donaldson, P.E., Electrical Engineer

Reference Project Description:

The project's scope of work was based on the plant expansion work being designed, bid, and constructed in two (2) parts. The first part of the project was anticipated to include the design, bidding, and construction of process improvements to address several operational issues currently being experienced at the plant. The main plant expansion work was anticipated to be Part 2 of the project. This part of the project included preliminary engineering, permitting, design, bidding, and construction of the additional process components needed for the WWTF expansion to 12 MGD.

Scope of Service Provided:

Electrical Design Associates, Inc. was contracted to provide electrical and instrumentation design associated with the expansion of the City's Westport WWTF from 6 MGD to 12 MGD in capacity. Design included replacement and upgrade of the site wide PLC system.

Professional Fees: \$353k Project Start Date: 2018/ Project Completion Date: 2024

Construction Start Date: 2024 / Construction Completion Date: Ongoing

A: Project Construction Cost: \$6M B: Professional Fees: \$353k Total Project Cost (A+B): \$6.4M

Reference Company Name: City of Port St. Lucie Reference Name: David Garland

Reference Phone Number: 772-807-4414 E-mail: dgarland@cityofpsl.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

The referenced project scope included electrical design for a WWTP. Additional information is included on the following page.

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

The work completed for Part 1 and Part 2 of the project is summarized below.

Part 1 – Process Improvements

Part 1 of the expansion project included critical plant process improvements to correct current operational issues. The improvements proposed for this part of the project included the following:

- Improve Flow Splitting to Clarifiers – A new flow splitter box and associated piping are anticipated. No work expected by EDA for this item.
- Improve Plant Drainage System and In-Plant Pump Station Capabilities – Structure modifications, new drainage system piping and piping modifications, and up to three (3) new in-plant pump stations are anticipated.
- Chlorine Contact Chamber Overflow Modifications – Existing structure modifications are anticipated. No work expected by EDA for this item.

Part 2 – Facility Expansion

The facility expansion included improvements for expanding the capacity of the treatment facility. The new facilities proposed included the following:

- Pre-Treatment Screening and Grit Removal Additions – A new influent screen and grit removal unit are anticipated. Upgrading the existing grit removal unit is an alternative.
- Aeration Process Additions – New aeration basins and associated equipment are anticipated.
- Clarification Process Additions – A new clarifier and associated equipment are anticipated.
- Chlorine Feed System Additions – A new chlorine feed building and associated equipment are anticipated.
- Electrical System Additions/Modifications
 - Upgrade the electrical distribution to meet EPA Class 1 reliability to avoid common mode failures. Building additions or new buildings will be required for new electrical equipment.
 - No upgrades to the existing standby generators or standby capacity are included.
 - Upgrade to equipment and systems to meet requirements of NFPA 820.
- Instrumentation and Control System Additions/Modifications
 - Upgrading the existing obsolete PLCs with new PLCs in their current locations.
 - Upgrading the SCADA servers with new units including OS and HMI software upgrades.
- HVAC and Plumbing Additions/Modifications
 - HVAC associated with upgrading the exhaust fans in the Chlorine Building.
 - HVAC associated with the new Electrical Room/Building improvements.
 - Plumbing associated with new floor drain in the Chlorine Building.
- Class I Injection Well Facilities Additions – One injection wells and one ASR Well including wellhead facilities, injection pump systems, and all associated equipment will be designed by others. Our scope will be to provide space in the MCCs for these loads and empty conduits for others to complete the system.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor: Pan Geo Consultants, LLC

Reference Project Name/Address: Terminal 4 Expansion, Port Everglades, Fort Lauderdale, FL

Name(s) and role(s) of key personnel working on this reference project: Paul C. Catledge, P.E./Geotechnical Engineer

Reference Project Description: Plans called for the construction of new mooring bollards within the apron between Terminal 4 and Slip 2, a new canopy at the southwest side of Terminal 4 between the terminal and the parking garage, an approximately 30 ft tall arch at the parking garage northside driveway entrance, and a new tower structure at the southeast corner of Terminal 4. The exploration of subsurface conditions included the performance of Standard Penetration Test (SPT) borings, and review of the Broward County Soil Survey Map. Pan Geo Consultants, LLC was requested to perform a total of seven (7) Standard Penetration Test (SPT) borings (ASTM D-1586) in order to evaluate the subsurface soil conditions within the footprint of the proposed structure. The borings were performed to depths of forty to eighty feet below the ground surface.

Scope of Service Provided: Geotechnical Engineering, Materials Testing and Inspections

Professional Fees: \$35,296.27 Project Start Date: 4 /22 Project Completion Date: 9/24

Construction Start Date: 4/23 Construction Completion Date: 9/24

A: Project Construction Cost: ~\$14,000,000 B: Professional Fees: Unknown Total Project Cost (A+B): ~\$14 mil

Reference Company

Name: Bermello Ajamil & Partners (Woolpert)

Reference Name: Boukman Mangones, R.A.

Reference Phone Number: 786.471.8685

E-mail: Boukman.Mangones@woolpert.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Performing geotechnical engineering, testing, and inspections for a large public project with strict timelines and multiple stake holders.

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):
CMA

Reference Project Name/Address:
TT Unit Substation Replacement, Lake Buena Vista, FL

Name(s) and role(s) of key personnel working on this reference project:
Freeman Bass, PE (Engineer of Record & PM), J. David Hopkins, PE (QA/QC)

Reference Project Description:
Replace existing primary HPL switches and station class transformers with distribution pad mount transformers.

Scope of Service Provided:
Engineering and Construction Administration

Professional Fees: \$ 140,698 Project Start Date: 6 / 24 Project Completion Date: 9 / 24

Construction Start Date: 10 / 24 Construction Completion Date: 1 / 25

A: Project Construction Cost: \$ 588,660 B: Professional Fees: \$140,698 Total Project Cost (A+B): \$ 729,358

Reference Company Name: Reedy Creek Energy Services Reference Name: Joseph Russo

Reference Phone Number: Confidential E-mail: Confidential

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

3.8.1 Electrical Engineering (primary discipline)

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be

used if needed) ChenMoore designed a new distribution loop system to replace existing aging electric equipment. The existing facility could not experience any outage longer than three hours, and only one outage a week was allowable. ChenMoore developed a plan for temporary primary and secondary configuration to replace the equipment to meet the clients requirements. ChenMoore used the historical meter data to re-size the primary transformer(s) to minimize the cost on new secondary conductors to the existing main switchgear. ChenMoore developed relay settings for the temporary breakers and modified the existing settings on the main breaker. ChenMoore performed construction administrative services for the construction of the rehabilitation.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Green Dade, Inc.

Reference Project Name/Address:

West Avenue Neighborhood Improvement Project (NIP), Phase 2 / City of Miami Beach, Miami Beach, Florida

Name(s) and role(s) of key personnel working on this reference project:

Edmundo Rodriguez, P.E. – Electrical, Instrumentation and Controls Engineer of Record

Reference Project Description:

The project entails a complex municipal resiliency effort involving a high-capacity master pump station with emergency generator, FPL service infrastructure and vault, water quality pump stations, addition of generators at existing stations, and SCADA/RTU integration.

Scope of Service Provided:

Provided electrical, instrumentation & controls engineering services for the entire stormwater infrastructure. Services included design, plans preparation and technical specifications, coordination with other disciplines and utility agencies, and construction phase support.

Professional Fees: \$ **300K** Project Start Date: **08 / 23** Project Completion Date: **06 / 27 (Ongoing)**

Construction Start Date: **01 / 24** Construction Completion Date: **06 / 27 (Scheduled)**

A: Project Construction Cost: \$ **100M** B: Professional Fees: \$ **3M** Total Project Cost (A+B): \$ **103M**

Reference Company Name: City of Miami Beach | CIP & PWD

Reference Name:

Reference Phone Number:

E-mail:

CMB PUBLIC WORKS DEPARTMENT

Ph. 786-758-1437

OmarMendoza@miamibeachfl.gov

Omar Mendoza, P.E., CGC | Principal Engineer of Infrastructure

PH. 305-962-7149

Cristina.Ortega@hdrinc.com

Cristina Ortega, P.E. | Previous City Staff / City Engineer

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Demonstrates relevant experience delivering large-scale electrical, instrumentation, and control systems for critical municipal utility infrastructure, including extensive FPL coordination and utility interface experience, as well as coordination with the City's SCADA vendor and system for deployment of offsite monitoring and control.

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Services included electrical, instrumentation, and control design for a 120,000 GPM high-capacity sextuplex stormwater pump station with six 135 HP explosion-proof submersible pumps, a 1.25 MVA emergency generator with a 5,000-gallon UL 142 fuel tank, multiple water quality well pump stations, and associated utility infrastructure; preparation of construction documents, one-line diagrams, feeder and equipment sizing, layouts, and technical specifications; coordination with FPL for new service duct banks, vault, and service requirements; design for hazardous location electrical installations; support for auxiliary generators at existing pump stations to remain operational during outages; and coordination with the City's SCADA vendor for RTU deployment and offsite monitoring and control integration as part of the broader West Avenue resiliency and utility improvement program.

Please refer to related Project Sheet for additional / expended information.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor):

Green Dade, Inc.

Reference Project Name/Address:

**Water Treatment Plants Automation Study / Alexander Orr Jr. WTP, John E. Preston WTP, and Hialeah WTP
Miami-Dade County, Florida**

Name(s) and role(s) of key personnel working on this reference project:

Edmundo Rodriguez, P.E. – Electrical Engineer of Record / SCADA Engineer of Record

Reference Project Description: **A comprehensive automation, instrumentation, controls, and SCADA assessment for the three major MDWASD's water treatment plants to evaluate existing treatment process systems and develop a standardized roadmap for future upgrades, optimization, cybersecurity, communications, and scalable plantwide automation improvements.**

Scope of Service Provided: **Provided professional engineering support for electrical, instrumentation, controls, and SCADA improvements during planning for major water treatment plant rehabilitation, including system assessment, process controls evaluation, automation planning, communications and cybersecurity review, and preparation of an Engineer's Report.**

Professional Fees: **\$ 200K** Project Start Date: **04 /23** Project Completion Date: **10 / 23**

Construction Start Date: **N/A** Construction Completion Date: **N/A**

A: Project Construction Cost: **\$ 81M (Estimated)** B: Professional Fees: **\$8M (Estimated)** Total Project Cost (A+B): **\$ 89M**

Reference Company Name: **City of Miami Beach | CIP & PWD**

Reference Name:

Reference Phone Number:

E-mail:

Miami-Dade Water and Sewer Depart., Utility Engineering

Ph. 786-552-4401

Luis.Serrano@miamidade.gov

Luis E. Serrano, P.E., Sr. Professional Engineer / PM

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Demonstrates relevant experience delivering large-scale electrical, instrumentation, controls, and SCADA planning services for critical municipal water treatment infrastructure, including process automation evaluation, communications and cybersecurity review, control system modernization planning, and development of implementation roadmaps for multi-facility upgrades.

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Services included a detailed assessment of automation, instrumentation, controls, and SCADA systems at three MDWASD-operated water treatment plants: Alexander Orr Jr., John E. Preston, and Hialeah. The work included review and documentation of existing automation levels throughout the treatment process, identification of water quality parameters requiring monitoring for efficient operation, and evaluation of existing control setpoints and actuation requirements for chemical feed, flow control, and level measurement and control. The study addressed key treatment processes such as lime slurry preparation, lime softening, recarbonation, filtration, air stripping, high-pressure pumping, low-pressure pumping, and related chemical feed systems. Services also included evaluation of the existing SCADA system, identification of additional monitoring, controls, alarming, reporting, and network connection needs, assessment of scalability for future flow increases, review of defense-in-depth cybersecurity measures, and preparation of an Engineer's Report to support future rehabilitation and improvement of the County's major water treatment plants.

Please refer to related Project Sheet for additional / expended information.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar-type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer, A/E subconsultant/Non-A/E subconsultant/subcontractor): Longitude Surveyors, LLC

Reference Project Name/Address: Alexander Orr Water Treatment Plant, Miami, FL

Name(s) and role(s) of key personnel working on this reference project:
Eduardo M. Suarez, PSM,

Reference Project Description:

Interior of the Engine No. 6 housing unit and included a Boundary and Topographic Survey, as well as a Quality Level B Subsurface Utility Engineering (SUE) Designation.

Scope of Service Provided:

3d Laser Scanning, Boudary & Topographic Surveying and Subsurface Utility Engineering Services

Professional Fees: \$ 168,086.76 Project Start Date: 06 / 24 Project Completion Date: 08/2024

Construction Start Date: 06/2024 Construction Completion Date: 06 / 2030

A: Project Construction Cost: \$ 16,500,000.00 B: Professional Fees: \$ 168,086.76 Total Project Cost (A+B): \$ 16,668,086.76

Reference Company Name: HDR Engineering, Inc.

Reference Name: Jorge I. Camacho, PE, ENV SP

Reference Phone Number: 787.409.8540 E-mail: Jorge.Camacho@HDRINC.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Surveying

Use the space below to expand on the scope of services provided for this project: (additional sheets of paper may be used if needed)

Longitude Surveyors performed a 3D laser scan to document existing conditions at the Alexander Orr Water Treatment Plant in Miami, Florida. Elevations were assumed and not tied to a vertical datum. The site was cleared, powered, and properly lit to facilitate scanning. The scope included scanning the interior of Engine No. 6, along with a Boundary and Topographic Survey and a SUE Quality Level B utility designation. A title review was completed based on the Title Commitment provided by MDWASD. Four Temporary Benchmarks (TBMs) and four horizontal and vertical control points were established using existing plant control. The survey documented property corners, aboveground improvements, drainage features, water bodies, driveway materials, sanitary inverts, valve elevations, flood zone data, folio number, and Finished Floor Elevations. A Digital Terrain Model (DTM) was generated, limited roadway elevations were collected, and subsurface utilities were designated in accordance with WASD CAD standards.

Ardurra Licenses

State of Florida
Department of State

I certify from the records of this office that ARDURRA GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on December 19, 1977.

The document number of this corporation is 555540.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 16, 2026, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.



*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Sixteenth day of January, 2026*

Secretary of State

Tracking Number: 9146642221CC

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

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

State of Florida

Board of Professional Engineers
Ardurra Group Inc.

Has satisfied the requirements of Section 471.023, Florida Statutes. In recognition thereof, the Board of Professional Engineers hereby authorizes this firm to offer engineering services in the State of Florida in accordance with Chapter 471, Florida Statutes, and the rules of the Board.

Witness the Seal of the Board and the Signature
of the Board's duly authorized Chair
this 20th day of January, 1978.

Kenneth S. Todd, Jr.
Kenneth S. Todd, Jr., Chair



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: ARDURRA GROUP, INC.

Receipt #: 315-346546
Business Type: ENGINEER (ENGINEERING)

Owner Name: ARDURRA GROUP, INC.

Business Opened: 09/11/2024

Business Location: 900 SE 3RD AVE STE 203
 FT LAUDERDALE

State/Country/Cert/Reg:
Exemption Code:

Business Phone: 3053929979

Rooms Seats Employees Machines Professionals

Number of Machines:		For Vending Business Only				Vending Type:		Total Paid
		Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost		
30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt Fee

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

WHEN VALIDATED

Mailing Address:

ARDURRA GROUP, INC.
 1000 NW 57TH CT SUITE 800
 MIAMI, FL 33126-3288

Receipt #: BROW-24-00299667
 Paid 09/08/2025 30.00

2025 - 2026

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: ARDURRA GROUP, INC.

Receipt #: 315-346546
Business Type: ENGINEER (ENGINEERING)

Owner Name: ARDURRA GROUP, INC.

Business Opened: 09/11/2024

Business Location: 900 SE 3RD AVE STE 203
 FT LAUDERDALE

State/Country/Cert/Reg:
Exemption Code:

Business Phone: 3053929979

Rooms Seats Employees Machines Professionals

Signature	Number of Machines:		For Vending Business Only				Vending Type:		Total Paid
			Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost		
	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt #: BROW-24-00299667
 Paid 09/08/2025 30.00



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
800HELPLA(435-7352) or (850) 488-2221

May 29, 2025

ARDURRA GROUP, INC.
1000 NW 57TH CT STE 800
MIAMI, FL 33126-3288

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB2610

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2027.

You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here



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

License No.: **LB2610**
Expiration Date February 28, 2027

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

ARDURRA GROUP, INC.
1000 NW 57TH CT STE 800
MIAMI, FL 33126-3288


 WILTON SIMPSON
 COMMISSIONER OF AGRICULTURE

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

Electrical Design Associates Licenses

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

 **dbpr** Department of Business & Professional Regulation

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[View Application Status](#)
[Find Exam Information](#)
[Unlicensed Activity Search](#)
[AB&T Delinquent Invoice & Activity List Search](#)

LICENSEE DETAILS 4:50:42 PM 3/11/2025

Licensee Information

Name: **ELECTRICAL DESIGN ASSOCIATES, INC. (Primary Name)**
 Main Address: **7284 WEST PALMETTO PARK ROAD SUITE 302-S BOCA RATON Florida 33433**
 County: **PALM BEACH**

License Information

License Type: **Engineering Business Registry**
 Rank: **Registry**
 License Number: **8079**
 Status: **Current**
 Licensure Date: **11/23/1998**
 Expires:

Special Qualifications Qualification Effective

Alternate Names

[View Related License Information](#)
[View License Complaint](#)

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

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Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 465, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 465](#) page to determine if you are affected by this change.

State of Florida

Minority Business Certification

Electrical Design Associates, Inc

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from: 09/16/2025 to 09/16/2027


 Pedro Allende
 Florida Department of Management Services

 OFFICE OF SUPPLIER DEVELOPMENT

Office of Supplier Development
 4000 Expressway Way, Suite 300
 Tallahassee, Florida 32309
 850-487-2815
www.dms.myflorida.com/osd

Longitude Licenses

 Florida Department of Agriculture and Consumer Services
 Division of Consumer Services
 Board of Professional Surveyors and Mappers
 2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
 800HELPLFLA(415-7352) or (850) 488-2221

January 30, 2025

LONGITUDE SURVEYORS, LLC
 7700 N KENDALL DR STE 705
 MIAMI, FL 33156-7591

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB7335

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2027.

You are required to keep your information with the Board current. Please visit our website at www.800helpfl.com to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here

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

License No: LB7335
 Expiration Date February 28, 2027

Professional Surveyor and Mapper Business License
 Under the provisions of Chapter 472, Florida Statutes

LONGITUDE SURVEYORS, LLC
 7700 N KENDALL DR STE 705
 MIAMI, FL 33156-7591


 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 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: LONGITUDE SURVEYORS LLC
 Business Type: ALL OTHERS (LAND SURVEYORS)
 Owner Name: EDUARDO M SUAREZ
 Business Location: 800 WEST CREEK ROAD SUITE 340 STATE COUNTY CERT REG
 Business Phone: 305.463.0912
 Business Type: ALL OTHERS (LAND SURVEYORS)
 Business Opened: 03/12/2004
 Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

For Vending Business Only

Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSP Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	3.00	0.00	0.00	33.00

Receipt Fee: 30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

WHEN VALIDATED

Mailing Address: EDUARDO M SUAREZ/O: LONGITUDE SUR
 7700 N KENDALL DR STE 705
 MIAMI, FL 33156-7591

Receipt # 999W-25-00004517
 Paid 10/27/2025 33.00

2025 - 2026

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: LONGITUDE SURVEYORS LLC
 Business Type: ALL OTHERS (LAND SURVEYORS)
 Owner Name: EDUARDO M SUAREZ
 Business Location: 800 WEST CREEK ROAD SUITE 340 STATE COUNTY CERT REG
 Business Phone: 305.463.0912
 Business Type: ALL OTHERS (LAND SURVEYORS)
 Business Opened: 03/12/2004
 Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		5		

Signature

Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSP Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	3.00	0.00	0.00	33.00

Receipt # 999W-25-00004517

Green Dade, Inc. Licenses

State of Florida
Department of State

I certify from the records of this office that GREEN DADE, INC. is a corporation organized under the laws of the State of Florida, filed on August 23, 2021.

The document number of this corporation is P21000075351.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 12, 2026, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twelfth day of January, 2026



[Signature]
Secretary of State

Tracking Number: 8216274803CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sosfl.gov/Verify/CertificateOfStatus/CertificateAuthentication>

CITY OF MIAMI
BUSINESS TAX RECEIPT

FY 25-26
ISSUED: Dec 19, 2025
Expires: March 18, 2026

BUSINESS NAME: Green Dade, Inc.

DBA: Green Dade, Inc.

BTR HOLDER NAME: Green Dade, Inc.

BUSINESS ADDRESS: 2307 SW 37 AV 500

EXPIRES: Effective Year Oct. 1 2025 Thru Sep. 30 2026

ACCOUNT NUMBER: 263960

RECEIPT NUMBER: 213783

COMMENTS: PROF ASSN/FIRMCO,PTNERSHPS/CORP

RESTRICTIONS:

This issuance of a business tax receipt does not permit the holder to violate any zoning laws of the City nor does it exempt the holder from any licensure permits that may be required by law. This document does not constitute a certification that the holder is qualified to engage in the business, profession or occupation specified herein. The document indicates payment of the business tax receipt only.

PLEASE DISPLAY THIS CERTIFICATE IN A CONSPICUOUS LOCATION AT OCCUPANCY ADDRESS.
FAVOR DE MOSTRAR ESTE CERTIFICADO EN UN SITIO VISIBLE EN LA DIRECCION DEL COMERCIO.
TANPRI AFICHE SÉTERICA SA A NAN YON KOTE KONSIDE NAN ADRES OKIPANE.

www.miamigov.com

Miami-Dade County
Internal Services Department
Architecture/Engineering (A/E)
Pre-Qualification Certificate

This certificate is hereby issued to: **GREEN DADE, INC.**
7220 SW 12th St, Miami FL 33135, US, FL 33144

Approval Date: 12/17/2025
Expiration Date: 12/31/2026

The above named applicant is pre-qualified to provide professional A/E services for Miami-Dade County for the period indicated above. The applicant has committed its firm to comply with the specific conditions listed below:

1. Pre-qualified to offer professional services only in the Miami-Dade County technical categories shown in the "Statement of Technical Qualifications." All technical category restrictions must be strictly adhered to.
2. Pre-Qualification Certification (PQC) consolidates the technical certification, affirmative action plan, and vendor registration into one streamlined certification process resulting in the issuance of a Pre-Qualification Certificate.
3. Report any significant changes, such as contact person, qualifier, ownership, firm address, etc., by login on the Self-Service Portal at www.miamidade.gov/vendor within 30 days of such a change. Failure to report said changes to the County may result in the immediate suspension or termination of your firm's Pre-Qualification Certification.
4. Failure to renew your firm's PQC at least thirty (30) days prior to your firm's current expiration date may result in the suspension and/or termination from County programs and current or future contracts until your firm's Pre-Qualification Certification has been properly renewed. Any lapses in the certification of any of the required PQC areas (vendor registration, affirmative action plan, or technical certification) will result in a lapse in your PQC. Firms are responsible for observing and adhering to all submission deadlines.
5. Any renewal applications and/or supporting documents submitted after the application deadline might delay the review of your firm's PQC certification to the next available Technical Certification Committee meeting. The PQC application, submission deadlines, and the Technical Certification Committee meeting calendar can be found on Procurement Management web site located at: <http://www.miamidade.gov/internalservices/prequalification-certification.asp>
6. Permit Miami-Dade County representatives to have access during normal business hours to audit books and records to verify information submitted with this application. This right of access shall commence on the approval date of this certificate and shall terminate on its expiration date.

Please note that if at any time Miami-Dade County's has reason to believe that any person or firm has willfully and knowingly provided incorrect information or made false statements, the County may refer the matter to the State Attorney's Office and/or other investigative agencies, initiate debarment procedures, and/or pursue sanctions or other legal remedies in accordance with Miami-Dade County policy and/or applicable federal, state and local laws.

Approved By
Technical Certification Committee
Miami-Dade County

MIAMI-DADE COUNTY
miamidade.gov

September 4, 2025

Edmundo Rodriguez
Green Dade, Inc.
7220 SW 12th St
Miami, FL 33144

Approval Date: January 19, 2023 Small Business Enterprise - Architectural & Engineering (SBE-A&E)
Expiration Date: January 31, 2026

Dear Edmundo Rodriguez,

Miami-Dade County Strategic Procurement Department (SPD), has completed the review of your application and attachments submitted for certification. Your firm is officially certified as a Miami-Dade County Small Business Enterprise. The Small Business Enterprise (SBE) programs are governed by Sections 2-8.1.1.1; 2-8.1.1.2; 2-10.4.01; 10-31.02 of Miami-Dade County's Code. This Small Business Enterprise - Architectural & Engineering (SBE-A&E) certification is valid for three (3) years. However, to validate continuing eligibility, SPD may conduct random audit(s) within the three (3) year certification period. Failure to provide required documentation for a random audit will initiate the decertification process.

At the time of expiration, your firm will submit a Re-certification Application at least one hundred and eighty (180) days, but not less than, ninety (90) days, prior to the end of the three (3) year certification term via the County's web-based system, Business Management Workforce System (BMWS). This will ensure sufficient time for review by SPD. Failure to provide the re-certification application and required supporting documentation will initiate the decertification process.

If at any time there is a material or business structure change in the firm including, but not limited to, ownership, officers, director, scope of work being performed, daily operations, affiliations(s) with other businesses or the physical location of the firm, you must notify this office within thirty (30) calendar days of the effective date of the change(s) via the BMWS. Should should include supporting documentation. You will receive timely instructions from this office as to how you should proceed, if necessary. Failure to notify SPD of any changes may result in immediate action to decertify the firm.

This letter will be the only approval notification issued for the duration of your firm's three-year certification. If the firm attains graduation or becomes ineligible during the three-year certification period, you will be properly notified following an administrative process that your firm's certification has been removed pursuant to the code. Your firm's name and tier level will be listed in the directory for all SBE certified firms, which can be accessed through Miami-Dade County's SPD website: <https://www.miamidade.gov/global/businessprocurement/home.page>. The categories as listed below afford you the opportunity to bid and participate on contracts with Small Business Enterprise measures.

It is strongly recommended that you register your firm as a bidder with Miami-Dade County. To register, you may visit: <https://www.miamidade.gov/global/businessprocurement/home.page>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-1111 or via email at dsb@miamidade.gov.

Sincerely,
[Signature]
Jeanine Cummings-Labossiere
Section Chief, Strategic Procurement Department

CATEGORIES: (Your firm may bid or participate on contracts only under these categories)

FDOT
Florida Department of Transportation

BON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

June 30, 2025

Edmundo Rodriguez, President
GREEN DADE, INC.
7220 SW 12th Street
Miami, FL 33144
edmundo.rodriguez@greendade.com

Dear Mr. Rodriguez:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following professional services types of work per Rule 14-75, F.A.C.:

6.3.1 - Intelligent Transportation Systems Analysis and Design
6.3.3 - Intelligent Transportation Traffic Engineering Systems Communications

7.2 - Lighting
7.3 - Signalization

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until **June 30, 2026**, for contracting purposes.

Approved Rates

Home Overhead	Facilities Capital Cost of Money (FCCM)	Premium Overtime	Home Direct Expense	Published Fee Schedule
121.19%	0.048%	Reimbursed	0.00%	No

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

1

Local Business Tax Receipt
Miami-Dade County Office of The TaxCollector
-THIS IS NOT A BILL - DO NOT PAY

7339816

RECEIPT NO.
RENEWAL
7632266

EXPIRES
SEPTEMBER 30, 2026

Must be displayed at place of business Pursuant to County Code Chapter 8A - Art. 9 & 10

BUSINESS NAME/LOCATION
GREEN DADE INC
2307 DOUGLAS RD STE 503
MIAMI, FL 33145-3062

OWNER
GREEN DADE INCC/O EDMUNDO RODRIGUEZ PRES

SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHIP/PIRM

PAYMENT RECEIVED BY TAX COLLECTOR
75.00 07/08/2025
PTBTC-25-116282

Employee(s)
1 R36083

LBT

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business. The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8A-276.

For more information, visit mdtaxcollector.gov

Licensee

Name: **GREEN DADE INC.** License Number: **36083**

Rank: **Registry** License Expiration Date:

Primary Status: **Current** Original License Date: **05/21/2022**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
91400	Current, Active	RODRIGUEZ, EDMUNDO	Registry		Professional Engineer	02/28/2027

Print

Pan Geo Consultants Licenses

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LICENSEE DETAILS 3:39:10 PM 3/3/2025

Licensee Information

Name: **PAN GEO CONSULTANTS, LLC (Primary Name)**
 Main Address: **2109 SW 10TH AVENUE FORT LAUDERDALE Florida 33315**
 County: **BROWARD**
 License Mailing: **8258 WEST STATE ROAD 84 DAVIE FL 33324**
 County: **BROWARD**

License Information

License Type: **Engineering Business Registry**
 Rank: **Registry**
 License Number: **32088**
 Status: **Current**
 Licensure Date: **05/08/2017**
 Expires:

Special Qualifications **Qualification Effective**

Alternate Names

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2601 Blair Stone Road, Tallahassee FL 32399 : Email: [Customer Contact Center](#) : Customer Contact Center: 850.487.1395

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Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S., must provide the Department with an email address if they have one. The email provided may be used for official communication with the licensee. However, email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 455](#) page to determine if you are affected by this change.

CMA Licenses

State of Florida
Department of State

I certify from the records of this office that CHEN MOORE AND ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on November 7, 1986.

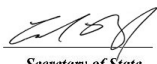
The document number of this corporation is J41454.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 5, 2026, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2026




Secretary of State

Tracking Number: 762556101CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

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LICENSEE DETAILS 12:36:06 PM 11/9/2023

Licensee Information

Name: **CHEN MOORE AND ASSOCIATES, INC. (Primary Name)**
 Main Address: **500 W. CYPRESS CREEK ROAD #600 FORT LAUDERDALE Florida 33309**
 County: **BROWARD**

License Information

License Type: **Engineering Business Registry**
 Rank: **Registry**
 License Number: **4593**
 Status: **Current**
 Licensure Date: **01/09/1987**
 Expires:

Special Qualifications **Qualification Effective**

Alternate Names

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[View License Complaint](#)

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LICENSEE DETAILS 12:05:39 PM 12/06/2023

This is a business tracking record only.
 Click here for information on how to verify that this business is properly licensed.

Licensee Information

Name: **CHEN MOORE AND ASSOCIATES, INC. (Primary Name)**
 Main Address: **500 W CYPRESS CREEK RD STE 630 FORT LAUDERDALE Florida 33309**
 County: **BROWARD**

License Information

License Type: **Landscape Architecture Business Information**
 Rank: **Business Info**
 License Number: **Current**
 Status: **Current**
 Licensure Date: **03/09/2011**
 Expires:

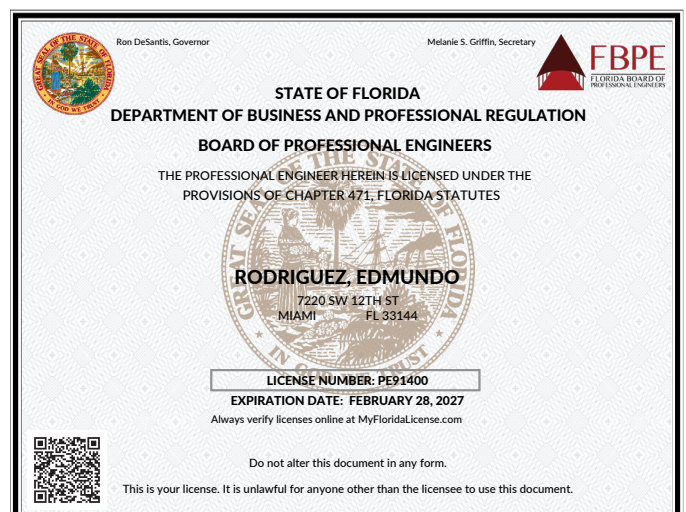
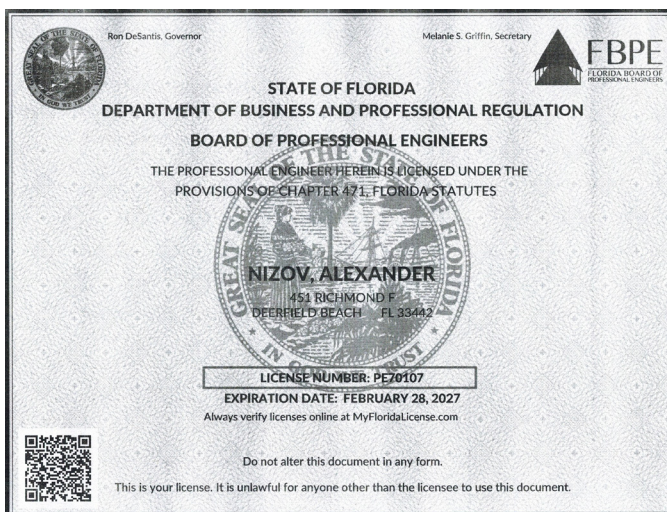
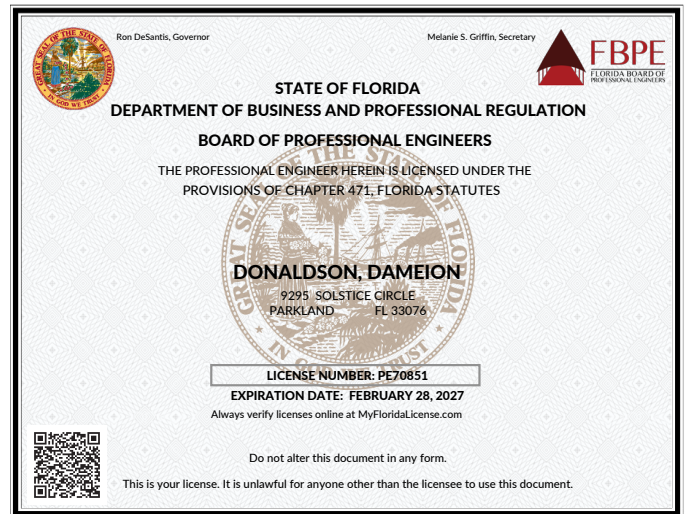
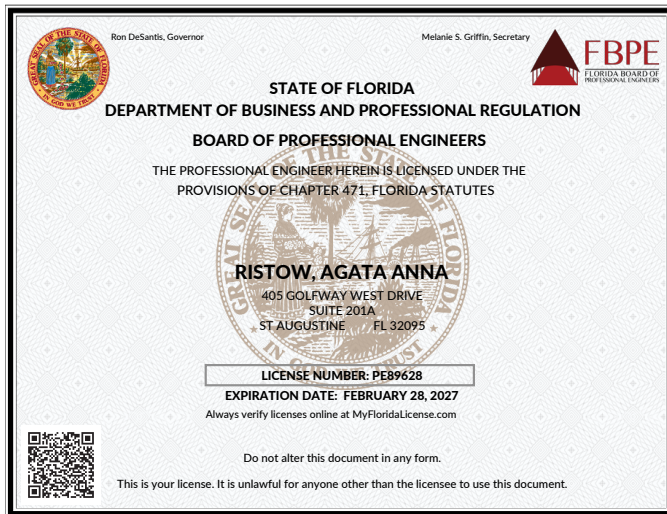
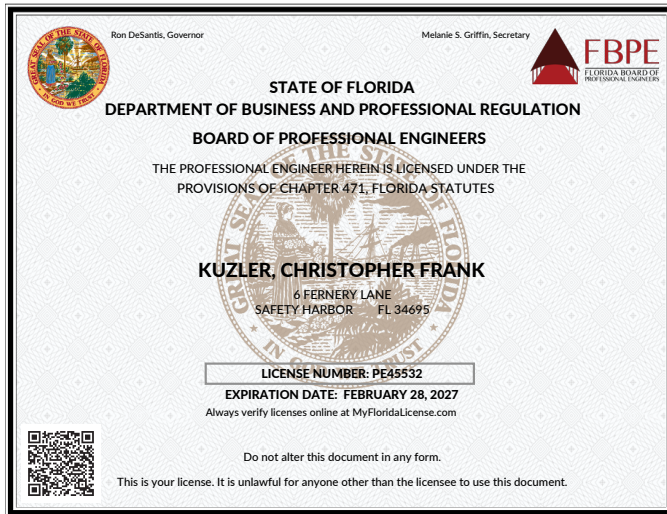
Special Qualifications **Qualification Effective**

Corporation 03/09/2011

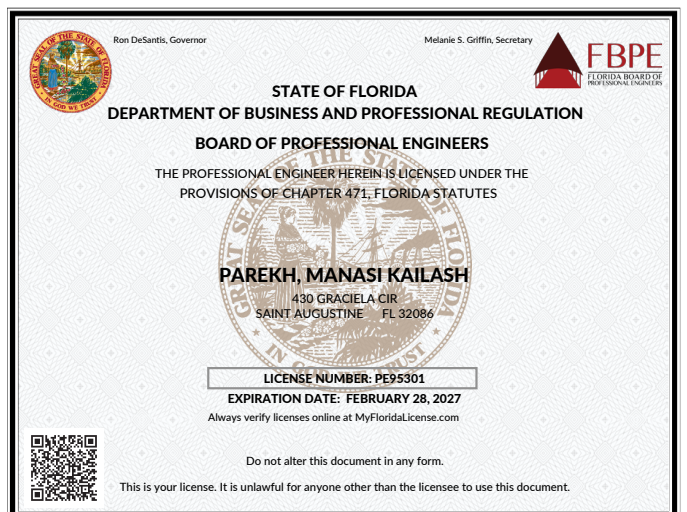
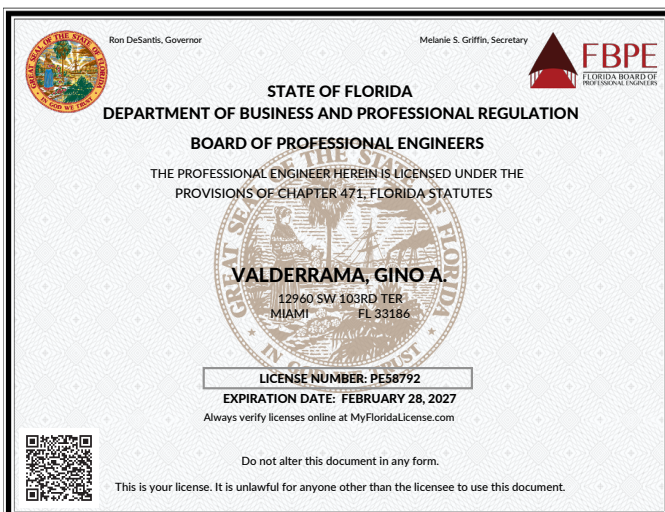
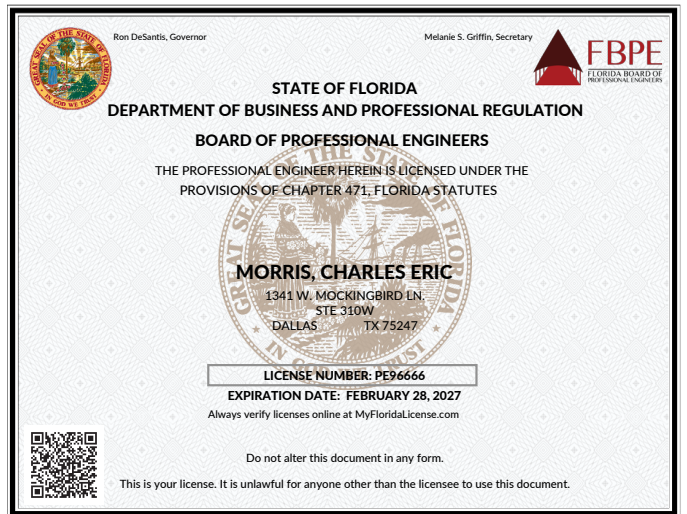
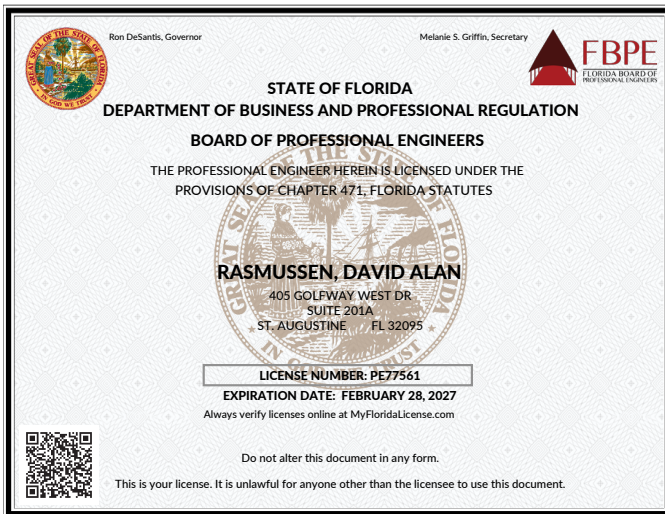
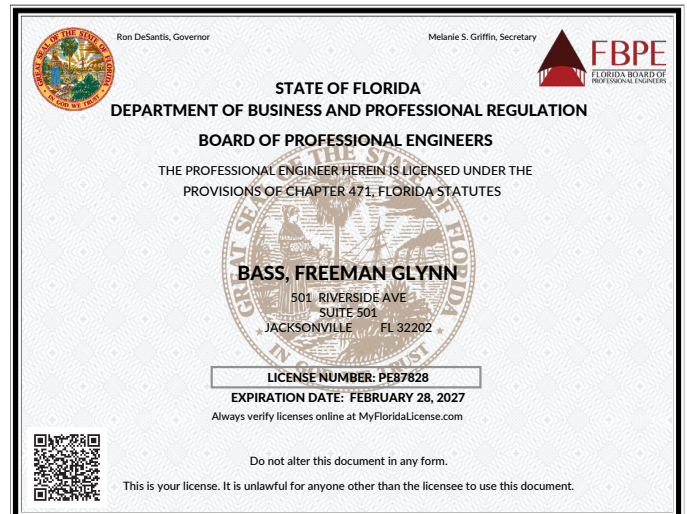
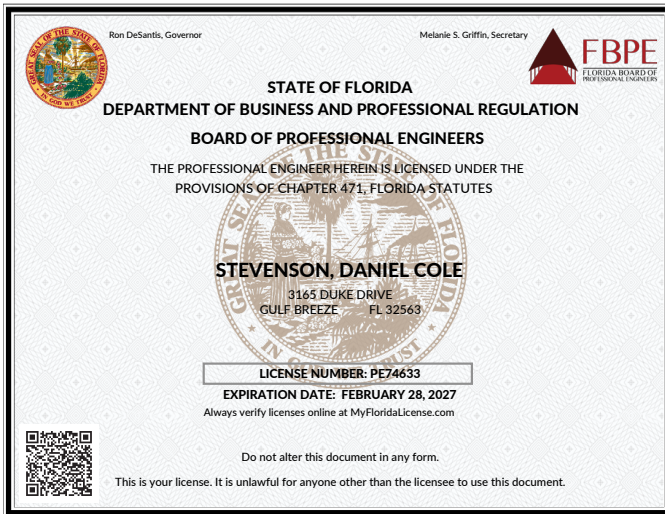
Alternate Names

[View Related License Information](#)
[View License Complaint](#)

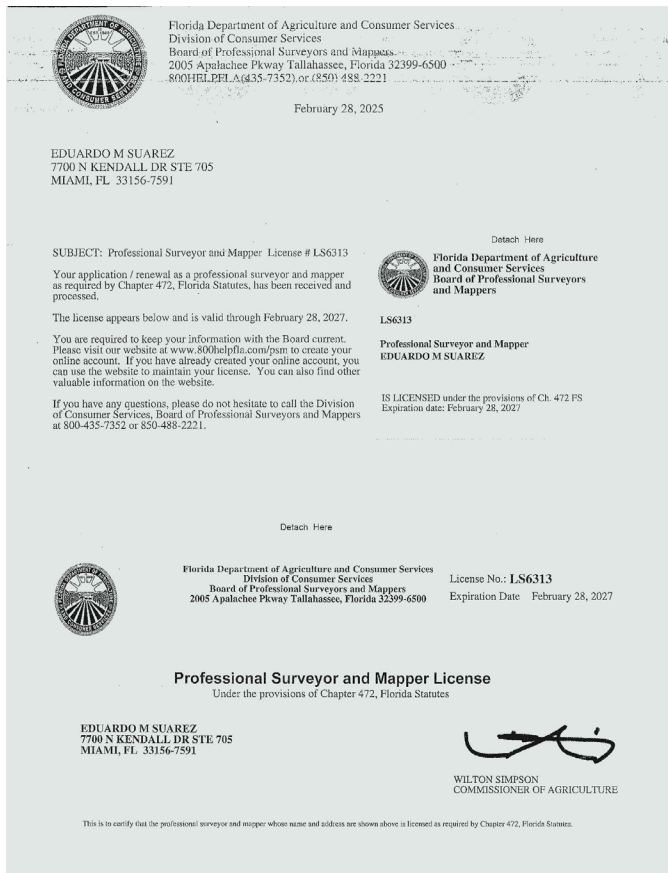
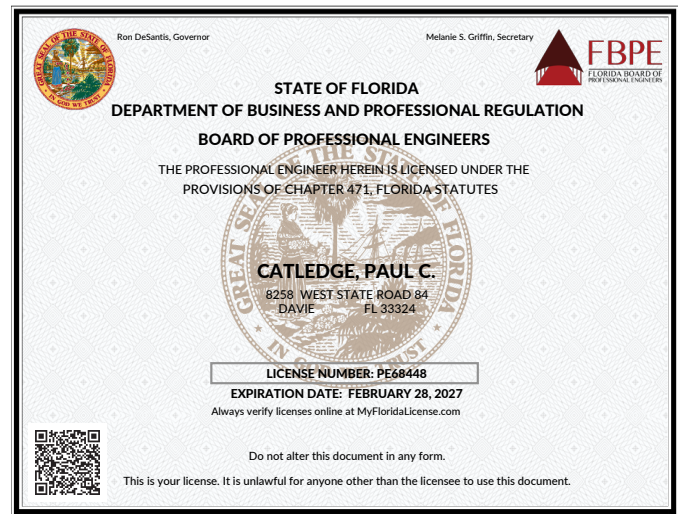
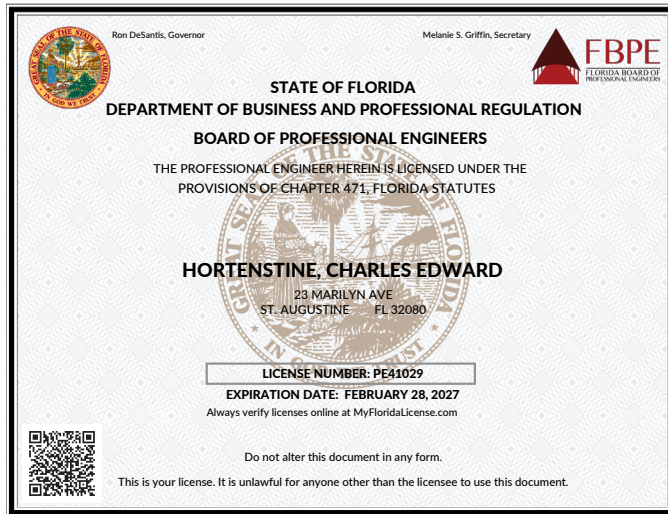
Individual Licenses and Registrations

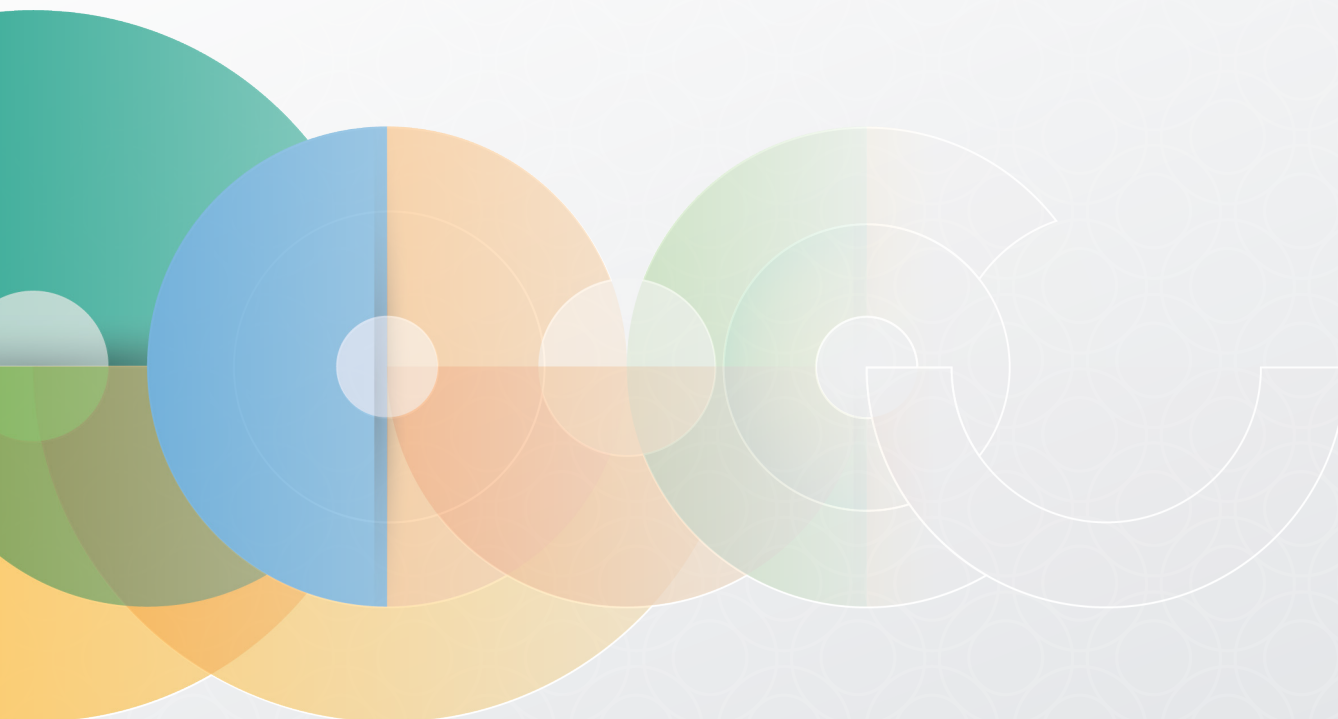


Licenses and Registrations



Licenses and Registrations





TAB 8 | LOBBYIST REGISTRATION FORM

COOPER CITY
LOBBYIST REGISTRATION
(City Code Section 2-233)

Lobbyist Name: Christopher Kuzler, PE

Lobbyist Address: 900 SE 3rd Avenue, Suite 203 Ft. Lauderdale, FL 33316

Lobbyist Email: ckuzler@ardurra.com

Lobbyist Employer: Ardurra Group, Inc.

Lobbyist Employer Address:

900 SE 3rd Avenue

Suite 203

Ft. Lauderdale, FL 33316

Phone: 813-549-2287

Nature of the Lobbyist’s Business (ie. lawyer, consultant, contractor):
Consultant

Client Information:

CLIENT NAME	CLIENT ADDRESS
City of Cooper Clty	9090 SW 50th Place, Cooper City, FL 33326

Lobbyist Matters of Influence (please list the matters the Lobbyist seeks to influence):

Engineering Services for RFQ #2026-1

Business Associations.

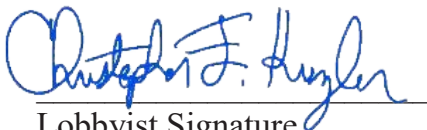
Please identify the existence of any direct business association between the Lobbyist and any current elected or appointed official or employee of the City. The term “direct business association” is defined in Section 2-233 of the City Code as any mutual endeavor undertaken for profit or compensation.

N/A

Lobbyist Authorization.

Lobbyists representing a group, association or organization must receive appropriate authorization from said group, association or organization to lobby on its behalf upon a particular subject matter. Please attach a copy of such written documentation of such authorization to this registration form.

Lobbyists representing a principal or employer must file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer. Please attach a copy of such authorization(s) to this registration form.



Lobbyist Signature

**COOPER CITY
LOBBYIST REGISTRATION
(City Code Section 2-233)**

Lobbyist Name: Jeremy Koch, PE

Lobbyist Address: 1000 NW 57th Court Suite 800 Miami, FL 33126

Lobbyist Email: jkoch@ardurra.com

Lobbyist Employer: Ardurra Group, Inc.

Lobbyist Employer Address:

1000 NW 57th Court

Suite 800

Miami, FL 33126

Phone: 305-807-2955

Nature of the Lobbyist's Business (ie. lawyer, consultant, contractor):

Consultant

Client Information:

CLIENT NAME	CLIENT ADDRESS
City of Cooper Clty	9090 SW 50th Place, Cooper City, FL 33326

Lobbyist Matters of Influence (please list the matters the Lobbyist seeks to influence):

Engineering Services for RFQ #2026-1

Business Associations.

Please identify the existence of any direct business association between the Lobbyist and any current elected or appointed official or employee of the City. The term “direct business association” is defined in Section 2-233 of the City Code as any mutual endeavor undertaken for profit or compensation.

N/A

Lobbyist Authorization.

Lobbyists representing a group, association or organization must receive appropriate authorization from said group, association or organization to lobby on its behalf upon a particular subject matter. Please attach a copy of such written documentation of such authorization to this registration form.

Lobbyists representing a principal or employer must file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer. Please attach a copy of such authorization(s) to this registration form.



Lobbyist Signature

COOPER CITY
LOBBYIST REGISTRATION
(City Code Section 2-233)

Lobbyist Name: Agata Ristow, PE

Lobbyist Address: 405 Golfway West Drive, Suite 201A, St. Augustine, FL 32095

Lobbyist Email: aristow@ardurra.com

Lobbyist Employer: Ardurra Group, Inc.

Lobbyist Employer Address:

405 Golfway West Drive

Suite 201A

St. Augustine, FL 32095

Phone: 469-640-6593

Nature of the Lobbyist’s Business (ie. lawyer, consultant, contractor):
Consultant

Client Information:

CLIENT NAME	CLIENT ADDRESS
City of Cooper Clty	9090 SW 50th Place, Cooper City, FL 33326

Lobbyist Matters of Influence (please list the matters the Lobbyist seeks to influence):

Engineering Services for RFQ #2026-1

Business Associations.

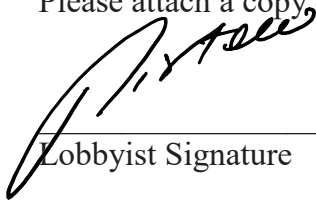
Please identify the existence of any direct business association between the Lobbyist and any current elected or appointed official or employee of the City. The term “direct business association” is defined in Section 2-233 of the City Code as any mutual endeavor undertaken for profit or compensation.

N/A

Lobbyist Authorization.

Lobbyists representing a group, association or organization must receive appropriate authorization from said group, association or organization to lobby on its behalf upon a particular subject matter. Please attach a copy of such written documentation of such authorization to this registration form.

Lobbyists representing a principal or employer must file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer. Please attach a copy of such authorization(s) to this registration form.


Lobbyist Signature

**COOPER CITY
LOBBYIST REGISTRATION
(City Code Section 2-233)**

Lobbyist Name: Rares Petrica, PE

Lobbyist Address: 900 SE 3rd Avenue, Suite 203 Fort Lauderdale, FL 33316

Lobbyist Email: rpetrica@ardurra.com

Lobbyist Employer: Ardurra Group, Inc.

Lobbyist Employer Address:

900 SE 3rd Avenue

Suite 203

Fort Lauderdale, FL 33316

Phone: 786.228.5666

Nature of the Lobbyist's Business (ie. lawyer, consultant, contractor):

Consultant

Client Information:

CLIENT NAME	CLIENT ADDRESS
City of Cooper City	9090 SW 50th Place, Cooper City, FL 33326

Lobbyist Matters of Influence (please list the matters the Lobbyist seeks to influence):

Engineering Services for RFQ #2026-1

Business Associations.

Please identify the existence of any direct business association between the Lobbyist and any current elected or appointed official or employee of the City. The term “direct business association” is defined in Section 2-233 of the City Code as any mutual endeavor undertaken for profit or compensation.

N/A

Lobbyist Authorization.

Lobbyists representing a group, association or organization must receive appropriate authorization from said group, association or organization to lobby on its behalf upon a particular subject matter. Please attach a copy of such written documentation of such authorization to this registration form.

Lobbyists representing a principal or employer must file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer. Please attach a copy of such authorization(s) to this registration form.



Lobbyist Signature

COOPER CITY
LOBBYIST REGISTRATION
(City Code Section 2-233)

Lobbyist Name: Alex Nizov, PE

Lobbyist Address: 1000 NW 57th Court Suite 800 Miami, FL 33126

Lobbyist Email: anizov@ardurra.com

Lobbyist Employer: Ardurra Group, Inc.

Lobbyist Employer Address:

1000 NW 57th Court

Suite 800

Miami, FL 33126

Phone: 972-838-5772

Nature of the Lobbyist’s Business (ie. lawyer, consultant, contractor):
Consultant

Client Information:

CLIENT NAME	CLIENT ADDRESS
City of Cooper Clty	9090 SW 50th Place, Cooper City, FL 33326

Lobbyist Matters of Influence (please list the matters the Lobbyist seeks to influence):

Engineering Services for RFQ #2026-1

Business Associations.

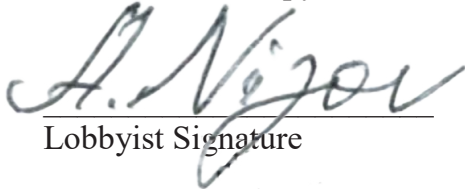
Please identify the existence of any direct business association between the Lobbyist and any current elected or appointed official or employee of the City. The term “direct business association” is defined in Section 2-233 of the City Code as any mutual endeavor undertaken for profit or compensation.

N/A

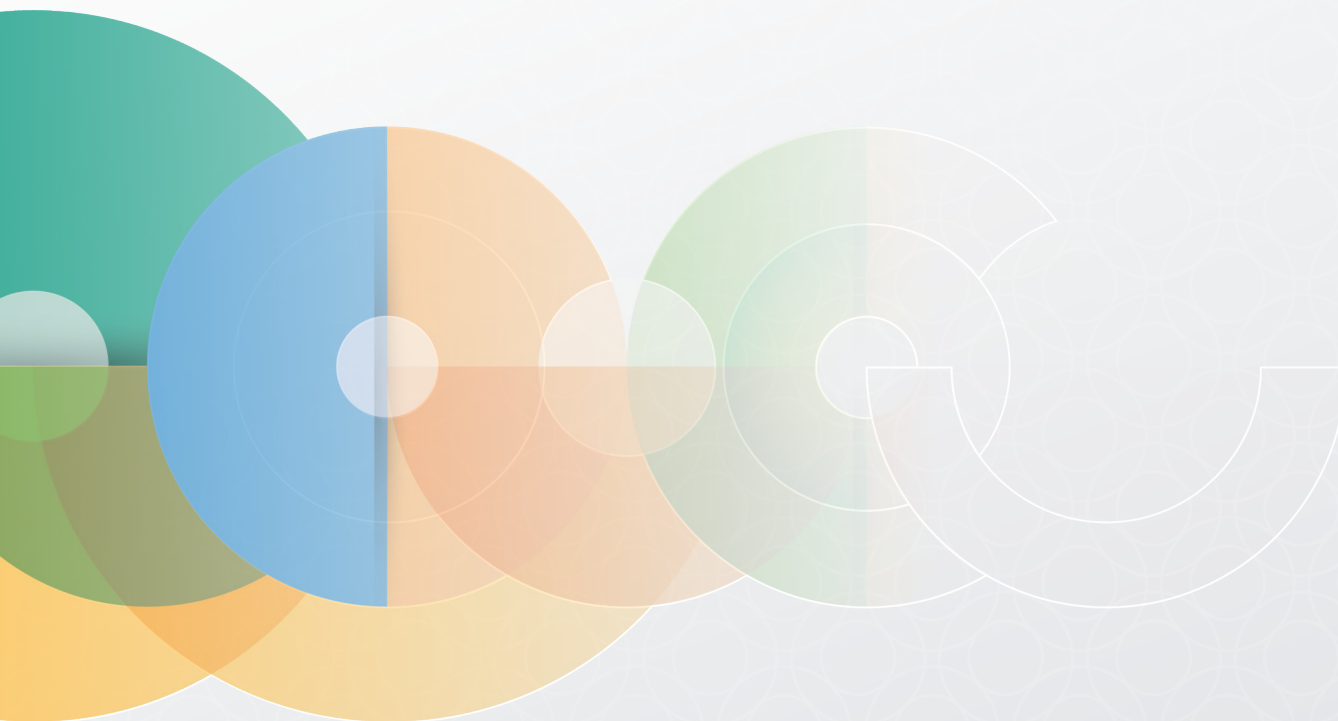
Lobbyist Authorization.

Lobbyists representing a group, association or organization must receive appropriate authorization from said group, association or organization to lobby on its behalf upon a particular subject matter. Please attach a copy of such written documentation of such authorization to this registration form.

Lobbyists representing a principal or employer must file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer. Please attach a copy of such authorization(s) to this registration form.



Lobbyist Signature



TAB 9 | REQUIRED FORMS/ AFFIDAVITS

City of Cooper City, Florida
 RFQ2026-1
 Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
 Addendum No. 1



Addendum No. 1

(Issued Tuesday, February 24, 2026)

RFQ2026-1, Engineering Design Services For Electrical Improvements To The City's Water and Wastewater Treatment Plant

This addendum becomes a part of the subject solicitation

A. CHANGES TO THE SOLICITATION:

Please note the following changes to the Solicitation:

1. Section 7.1, Proposer Questionnaire has been **replaced** with the following:

7.1 Proposal Questionnaire:

Inquiries concerning this solicitation shall be directed through the City's OpenGov Procurement Project Portal:
<https://procurement.opengov.com/portal/coopercity/projects/235365>

The following material is required to be submitted by Monday, March 16, 2026, to be considered for award.

General Requirements - The purpose of the technical proposal is to demonstrate the qualifications, competence, capacity and methodology of the firms seeking to provide the services in conformity with the requirements of this solicitation. The technical proposal should demonstrate the combined qualifications of the firm and of the particular staff to be assigned to this engagement. It should also specify an approach that will meet the solicitation requirements.

The technical proposal should address all of the points outlined in the solicitation. The proposal should be prepared simply and economically, providing a straightforward, concise description of the proposer's capabilities to satisfy the requirements of the solicitation. While additional data may be presented, the following subjects must be included:

- *Consultant Identification*
- *Technical Proposal*
- *Cost Proposal (if applicable)*

Inquiries concerning this Request for Proposal and the subject of the Request for Proposals shall be directed to the OpenGov Procurement Project Portal at

<https://procurement.opengov.com/portal/coopercity/projects/235365>

The following material is required to be submitted by Monday, March 16, 2026 for a contractor to be considered.

***General Requirements** - The purpose of the technical proposal is to demonstrate the qualifications, competence, capacity and methodology of the firms seeking to provide the services in conformity with the requirements of this Request for Proposal. The technical proposal should demonstrate the combined qualifications of the firm and of the particular staff to be assigned to this engagement. It should also specify an*

City of Cooper City, Florida
RFQ2026-1
Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
Addendum No. 1

~~approach that will meet the Request for Proposal requirements.~~

~~The technical proposal should address all of the points outlined in the Request for Proposal. The proposal should be prepared simply and economically, providing a straightforward, concise description of the proposer's capabilities to satisfy the requirements of the Request for Proposal. While additional data may be presented, the following subjects must be included:~~

- ~~• Consultant Identification~~
- ~~• Technical Proposal~~
- ~~• Cost Proposal (if applicable)~~

B. QUESTION AND ANSWERS:

The following questions were received:

Question 1: I have identified some issues with the forms. Some are provided in image format, which makes them difficult to complete, and others contain formatting errors where certain words are not displayed correctly.

Below is a list of the forms in which I found these issues. Please let me know whether they are intended to appear this way.

F - Business Entity Affidavit

G - Certification Regarding Debarment, Suspension, Etc.

I - Domestic Partnership Affidavit

K - Foreign Country of Concern Affidavit

Additionally, this form appears to be missing.

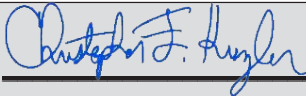
L. Florida Division of Corporations (submit proof of active registration).

Answer 1: Attachments F – I are downloadable PDF files. If you are having issues downloading the PDF files, please reach out to OpenGov support using the ? in the top right-hand corner of the website or via email at procurement-support@opengov.com. All forms required to be submitted pursuant to the solicitation are attached to the solicitation.

Tab 9 Required Forms/Affidavits under subsection 3.1 of Section 3 requires Proposers to submit proof of an active Florida Division of Corporations Profile. Firms doing business in Florida should be registered with the Division of Corporations <https://dos.fl.gov/sunbiz/>. Proof of active registration can be the firm's annual report (pdf) or the Division of Corporations detail screen (pdf).

Acknowledgment of Addendum #1

Proposer has acknowledged receipt and understanding of the information contained in this Addendum through electronic acknowledgement or by signing this document and including it as a part of its submittal.

Acknowledged by:		Company:	<u>Ardurra Group, Inc.</u>
Print Name:	<u>Christopher Kuzler, PE</u>	Date:	<u>March 10, 2026</u>

City of Cooper City, Florida
 RFQ2026-1
 Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
 Addendum No. 2



Addendum No. 2

(Issued Friday, March 13, 2026)

RFQ2026-1, Engineering Design Services For Electrical Improvements To The City's Water and Wastewater Treatment Plant

This addendum becomes a part of the subject solicitation

A. CHANGES TO THE SOLICITATION:

Please note the following changes to the Solicitation:

1. The Submission Deadline has been **extended**:

The submission deadline has been extended to 3:00 PM on Tuesday, March 24, 2026.

2. The following attachments have been **added** to the solicitation:

The following attachments have been added to this solicitation:

- Attachment W – RFQ2026-1 - 2024 WATER AND WASTEWATER MASTER PLAN UPDATE (2)(3)

3. Section 1.3 Definitions has been **deleted**:

1.3 Definitions:

~~The following words and expressions used in this Solicitation shall be construed as follows, except when it is clear from the context that another meaning is intended:~~

~~1. —~~

4. Section 2.2, Contract Term has been **replaced** with the following:

2.2 Contract Term:

The CITY intends to retain one (1) qualified consultant/team of firms for one (1) Non-Exclusive Professional Services Agreement (PSA), with an effective term of sixteen (16) months and an estimated contract amount of three million, seven hundred thousand dollars (\$3,700,000.00) as a base fee, plus a four hundred, forty-thousand-dollar (\$440,000.00) contingency.

The City reserves the right to exercise its option to extend this Contract for up to one hundred-eighty (180) calendar days beyond the current Contract period. If this right is exercised, the City shall notify the Proposer, in writing, of its intent to extend the contract for a definitive period of time prior to the effective date of the extension. By affixing its authorized signature to this Proposal Form, the Proposer hereby acknowledges and agrees to this right of the City. This Contract may be extended beyond the initial one hundred-eighty (180) calendar day extension period by mutual agreement between the City and the Consultant, upon approval by the City Commission.

City of Cooper City, Florida
 RFQ2026-1
 Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
 Addendum No. 2

~~The CITY intends to retain one (1) qualified consultant/team of firms for one (1) Non-Exclusive Professional Services Agreement (PSA), with an effective term of sixteen (16) months and an estimated contract amount of three million, seven hundred thousand dollars (\$3,700,000.00) as a base fee, plus a four hundred, forty-thousand dollar (\$440,000.00) contingency.~~

~~The City reserves the right to exercise its option to extend this Contract for up to one hundred eighty (180) calendar days beyond the current Contract period. If this right is exercised, the City shall notify the Proposer, in writing, of its intent to extend the contract for a definitive period of time prior to the effective date of the extension. By affixing its authorized signature to this Proposal Form, the Proposer hereby acknowledges and agrees to this right of the City. This Contract may be extended beyond the initial one hundred eighty (180) calendar day extension period by mutual agreement between the City and the Contractor, upon approval by the City Commission.~~

5. Section 2.4, Minimum & Preferred Experience and Qualifications has been **replaced** with the following:

2.4 Minimum & Preferred Experience and Qualifications:

The Prime Consultant must hold a state of Florida Professional Engineering (PE) license and be able to demonstrate experience on three (3) projects performed in the State of Florida over the past five (5) years of similar work as described in **SCOPE OF SERVICES**. The expertise must be met by a qualified individual(s) of the prime firm and/or sub-consultant firm(s), as applicable. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination for the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the CITY.

The CITY shall prefer Proposers having at least ten (10) years of experience of similar work as described within this Solicitation and Proposers capable of completing the project in a single phase.

The Evaluation Committee (EC) may negatively evaluate proposals from firms they determine have failed to meet the above referenced experience and qualification(s). Information regarding the experience and qualification(s) and preference stipulations, for the Prime consultant, A/E sub-consultants, and non A/E subconsultants, must be included on the Experience, Qualifications & Reference Form. This form may be submitted more than once per individual Team member firm as applicable.

Proposers shall also be required to:

- provide a detailed narrative description, graphics, timeline and schedule of its approach and methodology for the design of the Project.
- identify deviations or missing items in the Master Plan and ensure that they are included in their proposal for the design.

~~The Prime Consultant must hold a state of Florida Professional Engineering (PE) license and be able to demonstrate experience on _____ () projects performed in the State of Florida over the past five (5) years of similar work as described in **SCOPE OF SERVICES**. The expertise must be met by a qualified individual(s) of the prime firm and/or sub-consultant firm(s), as applicable. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination for the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the CITY.~~

~~The CITY shall prefer Proposers having at least ten (10) years of experience of similar work as described within this Solicitation.~~

~~The Evaluation Committee (EC) may negatively evaluate proposals from firms they determine have failed to meet the above referenced experience and qualification(s). Information regarding the experience and qualification(s) and preference stipulations, for the Prime consultant, A/E sub-consultants, and non A/E~~

City of Cooper City, Florida
RFQ2026-1
Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
Addendum No. 2

~~subconsultants, must be included on the Experience, Qualifications & Reference Form. This form may be submitted more than once per individual Team member firm as applicable.~~

~~Proposers shall also be required to:~~

- ~~• provide a detailed narrative description, graphics, timeline and schedule of its approach and methodology for the design of the Project.~~
- ~~• identify deviations or missing items in the Master Plan and ensure that they are included in their proposal for the design.~~

6. Section 3.1, Format, Contents and Documents has been **revised**:

3.1 Format, Contents and Documents

Interested Proposers must submit their proposal electronically through OpenGov in .pdf format. Proposers should carefully follow the format and instructions outlined herein. The Proposal Submittal Form must include the electronic acknowledgement and/or signature of the firm's authorized representative.

Every firm or team of firms, whether a sole respondent, a prime consultant firm, or a sub-consultant firm, must be responsive to all applicable items contained in this Solicitation. Proposers shall not modify any of the forms provided and shall submit the completed forms listed below in their proposal. Failure to provide all of the requested information may deem a respondent's proposal non-responsive. Each proposal shall consist of the following documents in the order noted below.

Proposal Submittal Form

The execution of the Proposal Submittal Form constitutes the unequivocal offer of the proposer to be bound by the terms of its proposal. This is a Web-based form in OpenGov. It does not need to be included in the PDF proposal and is only required of the Prime consultant.

Table of Contents

TAB 1: Letter of Interest (Optional) - Preferred Maximum of Two (2) Pages

Proposers shall provide a letter of interest indicating their commitment to the project. Letter of interest shall include but not be limited to the following:

- Full legal company name and company type (C-Corp, S-Corp, LLC, Sole Proprietor, etc.)
- Names and titles of principals, partners, or owners as applicable;
- Primary company point-of-contact information (name, phone and email), and any secondary or supplemental point(s) of contact information;
- Physical and mailing address (if different) and include any other location(s) which may perform portion(s) of the work;
- Brief statement of company history (date of establishment, number of years in business, number of employees, etc.);
- Brief statement regarding the Respondent's interest in this project.

TAB 2: Letter of Qualifications (LOQ)

Proposers shall submit an LOQ under this tab. Proposers shall also include a brief resume including education, experience, licenses and any other pertinent information for each assigned personnel under this tab. Proposers are advised that changes to the proposed team composition, such as adding, deleting or replacing a firm(s), or individual sub-consultant(s), after the response deadline specified herein, will only be allowed at the discretion of the CITY. Under no circumstances shall a change be allowed that results in a proposer gaining a competitive advantage over other proposers.

Any information/personnel that does not adequately fit in the space provided on the LOQ form shall be added on an additional sheet to be appended to the LOQ.

City of Cooper City, Florida
 RFQ2026-1
 Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
 Addendum No. 2

TAB: 3 Table of Organization (T.O.)

Proposer shall submit a table of organization, to includes the following:

1. *Listing of all team member firms as denoted on the LOQ. All firms must be denoted with proper Federal Employer Identification Number (FEIN). For purposes of satisfying the applicable requirements of this solicitation. The CITY considers every company having a different FEIN, a separate legal entity.*
2. *Listing of all assigned personnel and professional services. A discipline/technical category should be assigned to each team member in connection with this project.*

TAB 4: Narrative For Criteria

Proposers shall submit a brief narrative detailing responses to each evaluation criterion described in EVALUATION CRITERIA section.

TAB 5: Project Approach

Proposer shall provide a narrative detailing the Proposer's understanding of the proposed scope of work, which may include but not be limited to, studies performed that affect this project, key design elements, (a design scheme may be required), effects on the community involved, and awareness of the permitting requirements, including health and safety measures applicable to the project's scope. Proposer's approach to the project, sustainable design principles as outlined in the solicitation document, and implementation of LEED requirements, as applicable.

TAB 6: Experience & Qualification of Firm

Proposers shall submit an Experience & Qualification Reference Form for each team member (Prime, A/E Sub-consultant, and/or non-A/E sub-consultant), as applicable. The applicable firm must list a previous similar type project in which it has performed work. The reference provided should be for one project and must comply with the requirements listed within the Solicitation. Firms must denote whether the reference project is to meet a preferred experience and qualification requirement, and/or a general project reference. The Experience & Qualification Reference Form may be submitted more than once per individual team member firm, as applicable. Please be advised that each individual reference may be contacted by CITY staff or designee to verify the information provided in the Experience & Qualification Reference Form.

Proposer should include copies of each team member's professional license(s) required to perform the requested scope of work.

Proposers shall also provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements under this tab.

TAB 7: Required Forms/Affidavits (only required of the Prime Consultant)

- A. *American with Disabilities Act (ADA) Nondiscrimination Statement*
- B. *Business Entity Affidavit*
- C. *Certification Regarding Debarment, Suspension, Etc.*
- D. *Contractor Due Diligence Affidavit.*
- E. *Domestic Partnership Affidavit*
- F. *Drug Free Workplace Certificate*
- G. *Employee Background Verification Affidavit*
- H. *E-Verify Affidavit*
- I. *Florida Division of Corporations (submit proof of active registration)*
- J. *Foreign (Non-Florida) Corporation Form (if applicable)*
- K. *Foreign Country of Concern Affidavit*
- L. *Non-Collusion Affidavit*
- M. *Non-Conflict of Interest Statement*
- N. *Ownership Disclosure Affidavit*
- O. *Sample Insurance*

City of Cooper City, Florida
RFQ2026-1
Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
Addendum No. 2

- P. Public Entity Crimes Statement
- Q. Scrutinized Companies Affidavit
- R. W-9

Failure to provide the information required by the CITY may result in the negative evaluation of the team, or disqualification of the team, at the CITY's sole discretion.

The selected Proposer(s) may be required to disclose any lawsuits that include allegations of discrimination in the last ten years prior to the date of solicitation, the disposition of such lawsuits, or a statement that there are NO such lawsuits, as part of a responsibility review prior to award.

Interested Proposers must submit their proposal electronically through OpenGov in .pdf format. Proposers should carefully follow the format and instructions outlined herein. The Proposal Submittal Form must include the electronic acknowledgement and/or signature of the firm's authorized representative. Every firm or team of firms, whether a sole respondent, a prime consultant firm, or a sub-consultant firm, must be responsive to all applicable items contained in this Solicitation. Proposers shall not modify any of the forms provided and shall submit the completed forms listed below in their proposal. Failure to provide all of the requested information may deem a respondent's proposal non-responsive. Each proposal shall consist of the following documents in the order noted below.

Proposal Submittal Form

The execution of the Proposal Submittal Form constitutes the unequivocal offer of the proposer to be bound by the terms of its proposal. This is a Web-based form in OpenGov. It does not need to be included in the PDF proposal and is only required of the Prime consultant.

Table of Contents

TAB 1: Letter of Interest (Optional) - Preferred Maximum of Two (2) Pages

Proposers shall provide a letter of interest indicating their commitment to the project. Letter of interest shall include but not be limited to the following:

- *Full legal company name and company type (C-Corp, S-Corp, LLC, Sole Proprietor, etc.)*
- *Names and titles of principals, partners, or owners as applicable;*
- *Primary company point of contact information (name, phone and email), and any secondary or supplemental point(s) of contact information;*
- *Physical and mailing address (if different) and include any other location(s) which may perform portion(s) of the work;*
- *Brief statement of company history (date of establishment, number of years in business, number of employees, etc.);*
- *Brief statement regarding the Respondent's interest in this project.*

TAB 2: Letter of Qualifications (LOQ)

Proposers shall submit an LOQ under this tab. Proposers are advised that changes to the proposed team composition, such as adding, deleting or replacing a firm(s), or individual sub-consultant(s), after the response deadline specified herein, will only be allowed at the discretion of the CITY. Under no circumstances shall a change be allowed that results in a proposer gaining a competitive advantage over other proposers. Any information/personnel that does not adequately fit in the space provided on the LOQ form shall be added on an additional sheet to be appended to the LOQ.

TAB: 3 Table of Organization (T.O.)

Proposer shall submit a table of organization, to includes the following:

1. *Listing of all team member firms as denoted on the LOQ. All firms must be denoted with proper Federal Employer Identification Number (FEIN). For purposes of satisfying the applicable requirements of this solicitation. The CITY considers every company having a different FEIN, a separate legal entity.*
2. *Listing of all assigned personnel and professional services. A discipline/technical category should be*

City of Cooper City, Florida
 RFQ2026-1
 Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
 Addendum No. 2

assigned to each team member in connection with this project.

TAB 4: Resumes

Proposers shall submit a brief resume including education, experience, licenses and any other pertinent information for each assigned personnel listed in the Table of Organization. Subject documents must be paginated and include the personnel's name at the top of each page, with a preferred maximum of two (2) pages per team member.

TAB 5: Narrative For Criteria

Proposers shall submit a brief narrative detailing responses to each evaluation criterion described in EVALUATION CRITERIA section.

TAB 6: Project Approach

Proposer shall provide a narrative detailing the Proposer's understanding of the proposed scope of work, which may include but not be limited to, studies performed that affect this project, key design elements, (a design scheme may be required), effects on the community involved, and awareness of the permitting requirements, including health and safety measures applicable to the project's scope. Proposer's approach to the project, sustainable design principles as outlined in the solicitation document, and implementation of LEED requirements, as applicable.

TAB 7: Experience & Qualification of Firm

Proposers shall submit an Experience & Qualification Reference Form for each team member (Prime, A/E Sub-consultant, and/or non-A/E sub-consultant), as applicable. The applicable firm must list a previous similar type project in which it has performed work. The reference provided should be for one project and must comply with the requirements listed within the Solicitation. Firms must denote whether the reference project is to meet a preferred experience and qualification requirement, and/or a general project reference. The Experience & Qualification Reference Form may be submitted more than once per individual team member firm, as applicable. Please be advised that each individual reference may be contacted by CITY staff or designee to verify the information provided in the Experience & Qualification Reference Form.

Proposer should include copies of each team member's professional license(s) required to perform the requested scope of work.

Proposers shall also provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements under this tab.

TAB 8: Lobbyist Registration Form

A Lobbyist Registration Form shall be submitted by the prime consultant, and shall list all members of the presentation team who will be participating in the Second Tier Meeting (oral presentations) and/or all members of the team who will be participating in Negotiations in the event the prime consultant is recommended for contract negotiations. An amended Lobbyist Registration Form may be submitted to the Purchasing Division, prior to the Second Tier Meeting and/or Negotiation Meeting(s), as applicable, if additional individuals will be speaking at the subject meetings. The amended form should be titled as "Amended" and should denote those members that have been substituted and/or added with an asterisk. The amended form must be submitted to Purchasing prior to the Second Tier Meeting and/or Negotiation Meeting(s), via email to purchasing@coopercity.gov, referencing this project number/name on the subject line. Applicable fees may apply.

Pursuant to Cooper City Procurement Code, Section 2-233, subsection (a), please be advised of the following: (a) Prior to engaging in any lobbying activities, whether or not compensation is paid or received in connection with those activities, each lobbyist shall:

(1) File with the City Clerk, in form prescribed by the City Clerk, an annual registration statement under oath containing the following information:

a. The lobbyist's full name, residence address, business name, business address, email address, and nature of business.

b. The full name and address of all persons on whose behalf the lobbyist will be lobbying. If, after filing the registration statement, the lobbyist intends to lobby on behalf of any person(s) not listed on the registration statement, the lobbyist shall, prior to engaging in any lobbying activities on behalf of such unlisted person(s), file an amendment to the registration statement in form prescribed by the City Clerk, containing all the

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information required in the annual registration statement.

c. The general and specific subject matters which the lobbyist seeks to influence.

d. The extent of any direct business association by the lobbyist with any current elected or appointed official or employee of City. For the purposes of this article, the term "direct business association" shall mean any mutual endeavor undertaken for profit or compensation.

e. A lobbyist representing a group, association, or organization shall, prior to engaging in lobbying, receive appropriate authorization from said group, association, or organization to lobby on its behalf upon a particular subject matter. A copy of the applicable minutes, motion, or other documentation of the action providing such authorization shall be attached to the registration statements.

f. A lobbyist representing a principal or employer shall file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer.

All additional team members, who are lobbyists, and are not technical experts or employees of the principal whose normal scope of employment does not include lobbying activities and whose sole participation in a CITY procurement involves an appearance as defined herein, must file an Lobbyist Registration Form (for the individual or entity) with the Clerk's Office, prior to the oral presentation and/or negotiation meetings. The Lobbyist Registration Form is available from the City Clerk's Office.

TAB 9: Required Forms/Affidavits (only required of the Prime Consultant)

- A. American with Disabilities Act (ADA) Nondiscrimination Statement***
- B. Business Entity Affidavit***
- C. Certification Regarding Debarment, Suspension, Etc.***
- D. Contractor Due Diligence Affidavit.***
- E. Domestic Partnership Affidavit***
- F. Drug Free Workplace Certificate***
- G. Employee Background Verification Affidavit***
- H. E-Verify Affidavit***
- I. Florida Division of Corporations (submit proof of active registration)***
- J. Foreign (Non-Florida) Corporation Form (if applicable)***
- K. Foreign Country of Concern Affidavit***
- L. Non-Collusion Affidavit***
- M. Non-Conflict of Interest Statement***
- N. Ownership Disclosure Affidavit***
- O. Sample Insurance***
- P. Public Entity Crimes Statement***
- Q. Scrutinized Companies Affidavit***
- R. W-9***

Failure to provide the information required by the CITY may result in the negative evaluation of the team, or disqualification of the team, at the CITY's sole discretion.

The selected Proposer(s) may be required to disclose any lawsuits that include allegations of discrimination in the last ten years prior to the date of solicitation, the disposition of such lawsuits, or a statement that there are NO such lawsuits, as part of a responsibility review prior to award.

7. Criterion 4A under Section 4.5, Evaluation Criteria has been **replaced** with the following:

4.5 Evaluation Criteria

4. Criterion 4A: Ability of the Team Members to Interface with the City

Communication ability, proximity to the project, commitment to satisfy the City's requirements and familiarity with City of Cooper City & Broward County guidelines.

4. Criterion 4A: Ability of the Team Members to Interface with the County

Communication ability, proximity to the project, commitment to satisfy the City's requirements and familiarity with City of Cooper City & Broward County guidelines.

City of Cooper City, Florida
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8. Section 5.46, Non-Conformance To Contract Conditions has been **replaced** with the following:

5.46 Non-Conformance To Contract Conditions:

Services may be tested for compliance with specifications. Services delivered, not conforming to specifications, may be rejected and returned at vendor's expense. These services and services not delivered as per delivery date in Bid/Proposal and/or Purchase order or Task Order may be purchased on the open market with any increase in cost charged to the Proposer. Any violation of these stipulations may also result in:

- a. Vendor's name being removed from the vendor list;*
- b. All City Departments being advised not to do business with vendor.*

~~*Services may be tested for compliance with specifications. Services delivered, not conforming to specifications, may be rejected and returned at vendor's expense. These services and services not delivered as per delivery date in Bid/Proposal and/or Purchase order or Task Order may be purchased on the open market with any increase in cost charged to the Proposer. Any violation of these stipulations may also result in:*~~

- ~~*a. Vendor's name being removed from the vendor list;*~~
- ~~*b. All City Departments being advised not to do business with vendor.*~~

~~*OpenGov doesn't remove vendors from the system, but you can "block" vendors from submitting bids. We recommend changing "removed" to "blocked"*~~

B. QUESTION AND ANSWERS:

The following questions were received:

Question 1: The City has provided the electrical portion of the master plan, but not the complete master plan. Could you please provide a copy of the full master plan for the WTP and WWTP facilities? Having the full document will help us understand the City's planned future expansion and capacity increases so that we can design the electrical system appropriately.

Answer 1: The full master plan has been uploaded as Attachment W.

Question 2: We are seeking clarification regarding the ARCHITECT-ENGINEER LETTER OF QUALIFICATIONS (LOQ), Section (VII) – Resumes for Assigned Personnel.

Could you please confirm whether resumes are required to be included at the end of the LOQ in addition to being provided under Tab 4 – Resumes? Or is inclusion under Tab 4 sufficient to meet the submission requirements?

We appreciate your guidance to ensure full compliance with the solicitation instructions.

Answer 2: Resumes are now required to be submitted under Tab 2. See Section A. of Addendum No. 2.

Question 3: Please clarify how you would like us to fill out the Lobbyist Registration Form. It looks as though there is only space for one lobbyist to be named. Would an attached list of personnel be acceptable?

Answer 3: The requirement to submit the Lobbyist Registration Form has been removed. See Section A. of Addendum No. 2.

Question 4: Can you clarify the proposed power source for the future headworks and confirm where the power will originate?

Answer 4: The future headworks is going to receive power from 3MCC-2 and, for redundancy purposes, also receive power from 3MCC-1.

City of Cooper City, Florida

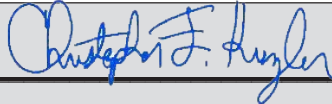
RFQ2026-1

Engineering Design Services For Electrical Improvements To The City's WTP & WWTP
Addendum No. 2

Acknowledgment of Addendum # 2

Proposer has acknowledged receipt and understanding of the information contained in this Addendum through electronic acknowledgement or by signing this document and including it as a part of its submittal.

Acknowledged by:



Company: Ardurra Group, Inc.

Print Name:

Christopher Kuzler, PE

Date:

March 13, 2026

AMERICANS WITH DISABILITIES ACT (ADA) DISABILITY NONDISCRIMINATION STATEMENT

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR
OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS

This sworn statement is submitted to the CITY OF COOPER CITY, FLORIDA

by: Christopher Kuzler, PE

(print individual's name and title)

for: Ardurra Group, Inc.

(print name of entity submitting sworn statement)

whose business address is: 900 SE 3rd Avenue, Suite 203, Ft Lauderdale, FL 33316

and (if applicable) its Federal Employer Identification Number (FEIN) is: 59-1782900

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:

(____-____-____.)

I, being duly first sworn state:

That the above named firm, corporation or organization is in compliance with and agreed to continue to comply with, and assure that any subcontractor, or third party contractor under this project complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and services, transportation, communications, access to facilities, renovations, and new construction.

The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 USC 12101-12213 and 47 USC Sections 225 and 661 including Title I, Employment; Title II, Public Services; Title III, Public Accommodations and Services Operated by Private entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.

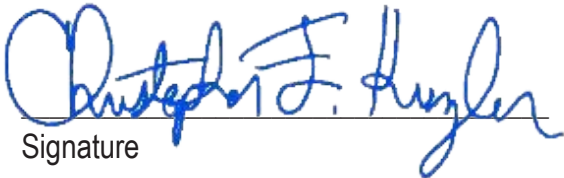
The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Section 553.501-553.513, Florida Statutes:

The Rehabilitation Act of 1973, 29 USC Section 794;

The Federal Transit Act, as amended 49 USC

Section 1612; The Fair Housing Act as amended

42 USC Section 3601-3631.


Signature

BUSINESS ENTITY AFFIDAVIT

I, Christopher Kuzler, PE, being first duly sworn state:

The full legal name and business address of the person(s) or entity proposing to contract or transact business with the City of Cooper City ("City") are (Post Office addresses are not acceptable), as follows:

Federal Employer Identification Number (FEIN) (If none, Social Security Number) Name of

Entity, Individual, Partners or Corporation

Doing Business As (If same as above, leave blank)

900 SE 3rd Avenue, Suite 203 Ft Lauderdale FL

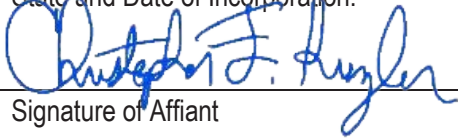
Street Address

City

State

State of Florida, December 1997

State and Date of Incorporation:



Signature of Affiant

March 10, 2026

Date

Christopher Kuzler, PE

Print Name

March 10, 2026

Date

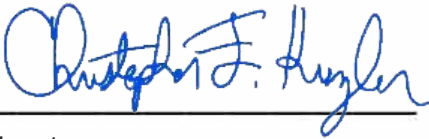
**Certification Regarding
Debarment, Suspension, Ineligibility
And Voluntary Exclusion**

Subcontractor Covered Transactions

The prospective subcontractor of the Recipient, Ardurra Group, Inc., certifies, by submission of this document, that neither it, its principals, nor affiliates are presently debarred, suspended, proposed for debarment, declared ineligible, voluntarily excluded, or disqualified from participation in this transaction by any Federal department or agency.

SUBCONTRACTOR:

Ardurra Group, Inc.

By: 

Signature

City of Cooper City

Recipient's Name

Christopher Kuzler, PE
Authorized Representative

Name and Title

B0251

DEM Contract Number

900 SE 3rd Avenue, Suite 203

Street Address

DEM-HL00118

Project Number

Ft. Lauderdale, FL 33316

City, State, Zip

March 10, 2026

Date

City of Cooper City

Contractor Due Diligence Affidavit

City Vendors and Contractors shall disclose the following as a condition of award for any contract that exceeds one million (\$1,000,000.00) or that must be presented to the Commission for approval:

- (1) Provide a list of all lawsuits in the five (5) years prior to bid or proposal submittal that have been filed against the firm, its directors, partners, principals and/or board members based on a breach of contract by the firm; include the case name, number and disposition;
- (2) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has defaulted; include a brief description of the circumstances;
- (3) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has been debarred or received a formal email notice of non-compliance or non-performance, such as a notice to cure or a suspension from participating or bidding for contracts, whether related to the City of Cooper City or not.

All of the above information shall be attached to the executed affidavit and submitted to the Purchasing Division. The Vendor/Contractor attests to providing all of the above information, if applicable to the Purchasing Division.

Contract No.: 2026-1 Federal Employer Identification Number (FEIN): 59-1782900
 Contract Title: Engineering Design Services For Electrical Improvements to the City's Water And Wastewater Treatment Plant

Christopher Kuzler, PE
 Printed Name of Affiant

Authorized Representative
 Printed Title of Affiant

Christopher F. Kuzler
 Signature of Affiant

Ardurra Group, Inc.
 Name of Firm

March 5, 2026
 Date

900 SE 3rd Avenue, Suite 203
 Address of Firm

FL
 State

33316
 Zip Code

Notary Public Information

Notary Public -- State of Florida County of Miami-Dade

Subscribed and sworn to (or affirmed) before me this 5th day of, March 2026

by Christopher F. Kuzler He or she is personally known to me or has produced identification

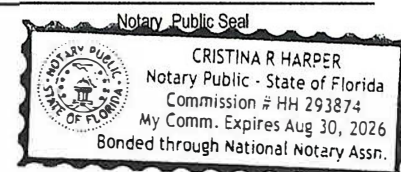
Type of identification produced _____

Cristina R. Harper
 Signature of Notary Public

HH 293874
 Serial Number

Cristina R. Harper
 Print or Stamp of Notary Public

August 30, 2026
 Expiration Date



Contractor Due Diligence Affidavit Information

Ardurra Group, Inc., its affiliated entities, and their officers and directors and senior management team have no prior or ongoing criminal actions. In addition, there are no material prior or ongoing civil actions involving the company. There have been various actions against Ardurra arising out of the ordinary conduct of its business, many of which are unrelated to the performance of its professional services. It is the opinion of management that the resolution of any ongoing actions will not materially affect the consolidated financial position of the company, the company's operations, or the company's ability to perform the services being solicited.

Below is a list of civil actions (litigation) commenced against Ardurra Group, Inc. in the past five years:

Matter Caption: Bowen and Kron Enterprises Inc. and Vapor Industries, LLC vs. Ardurra Group, Inc.

Docket Information: Nueces County, 214th District Court, Case No. 20222DCV-0498-F

Date: February 2022

Summary of Matter: Allegations by contractor for City of Corpus Cristi for cost overruns.

Status: Resolved without Ardurra's involvement.

Matter Caption: City of San Diego vs. The 5125 Company, 2GS, LLC d/b/a Earthworks Enterprise, Ardurra Group, Inc. d/b/a LNV and f/k/a LNV, LLC and f/ka/ LV, Inc., and Robert Viera, P.E.

Docket Information: 229th Judicial District, Duval County, TX, Cause No. DC-22-157

Date: November 2022

Summary of Matter: Claim alleging defects in design and construction of drainage improvement project.

Status: Settled.

Matter Caption: City of Parma vs. Ardurra Group, Inc.

Docket Information: District Court for the Third Judicial District, State of Idaho, Canyon County, Case No. CV14-25-03983

Date: April 2024

Summary of Matter: City asserted claims regarding its wastewater treatment plant that include allegations of design deficiencies.

Status: Matter is ongoing. Ardurra denies all allegations.

Matter Caption: Willow Bend Home Owners Association of Manatee County, Inc., a Florida non-for-profit corporation vs. CWES XV LLC, et al.

Docket Information: Circuit Court of the 12th Judicial Circuit, Manatee County, Case No.: 2024-CA-001501

Date: July 2024

Summary of Matter: HOA alleges design and construction defects. Ardurra only provided environmental monitoring and none of the allegations from the HOA relate to Ardurra's scope of services.

Status: Voluntarily dismissed with prejudice.

Matter Caption: Holiday Builders, Inc. vs. Ardurra Group, Inc., and Florida Engineering, LLC

Docket Information: Circuit Court of the 20th Judicial Circuit, Lee County, Case No. 24-CA-007179

Date: July 2024

Summary of Matter: Builder alleges damages in development of single-family home.

Status: Settled.

Matter Caption: Maria M. Valdivia Zuniga vs. Magdalena Feeffe, Et Al

Docket Information: Superior Court of California, County of San Diego, North County Division, Case No. 24CU018579N

Date: October 2, 2025

Summary of Matter: Motor vehicle accident and allegations against parties involved in a water utility improvement project in Oceanside, California.

Status: Matter is ongoing. Ardurra denies all allegations.

Matter Caption: Pamela Fischer v. Ramona Municipal Water District, Griffith Company, Ardurra Group, Inc. DOES 1 to 20, inclusive

Docket Information: Superior Court of California, County of San Diego, Case No. 25CU036686C

Date: January 9, 2026

Summary of Matter: Personal injury and other allegations against parties involved in a water utility improvement project in unincorporated area of Ramona in San Diego County, California.

Status: Matter is ongoing. Ardurra denies all allegations.

DOMESTIC PARTNERSHIP CERTIFICATION FORM

THIS FORM **MUST** BE COMPLETED AND SUBMITTED AT TIME OF SUBMITTAL
FOR PROPOSER TO BE DEEMED RESPONSIVE

The Proposer, by virtue of the signature below, certifies that it is aware of the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances, "Requirement for city contractors to provide equal benefits to domestic partners", and certifies the following:

Please check only one below

- ☐ 1. The Proposer currently complies with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances and provides benefits to domestic partners of its employees and the partners' dependents on the same basis as it provides benefits to employees' spouses and the spouses' dependents
- ☒ 2. The Proposer will comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of contract award and provide benefits to domestic partners of its employees and the partners' dependents on the same basis as it provides benefits to employees' spouses and the spouses' dependents
- ☐ 3. The Proposer will not comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of award
- ☐ 4. The Proposer does not need to comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of award because the following exemption applies:

Please check only one below

- ☐ The Proposer's price bid for the initial contract term is \$100,000 or less
- ☐ The Proposer employs less than twenty-five (25) employees
- ☐ The Proposer does not provide benefits to employees' spouses or spouse's dependents
- ☐ The Proposer is a religious organization, association, society, or non-profit charitable or educational institution
- ☐ The Proposer is a government entity
- ☐ The Proposer cannot comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation _____.
(Attach explanation of its applicability)

DOMESTIC PARTNERSHIP CERTIFICATION FORM (continued)

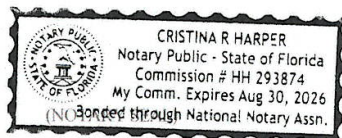
I, Christopher Kuzler, PE, Authorized Representative of Ardurra Group, Inc
 (Name) (Title) (Proposer)

Hereby attest that I have the authority to sign this notarized certification and certify that the above-referenced information is true, complete, and correct.

Christopher E. Kuzler Christopher Kuzler, PE
 Signature Print Name

STATE: Florida COUNTY: miami-Dade

Sworn to (or affirmed) and subscribed before me this 5th day of
March, 2026, by: Christopher E. Kuzler
 Name of Person Making Statement



Cristina R. Harper

Signature of Notary Public

cristina R. Harper
 Name of Notary Public (Typed, Printed, Stamped)

Personally Known: ☒ OR Identification Produced: _____

Type of Identification Produced: _____

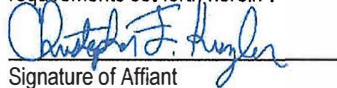
DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that, (print or type name of firm)

Ardurra Group, Inc.

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace named above, and specifying actions that will be taken against violations of such prohibition.
- Informs employees about the dangers of drug abuse in the work place, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.
- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.
- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 1893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written (*) statement to acknowledge their receipt.
- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.
- Makes a good faith effort to continue to maintain a drug free work place through the implementation of the drug free workplace program.

"As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein".



Signature of Affiant

Christopher Kuzler, PE

Print Name

March 5, 2026

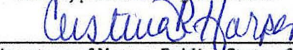
Date

STATE: **FLORIDA**

COUNTY: Miami-Dade

Sworn to (or affirmed) and subscribed before me this 5th day of March, 2026, by: Christopher E. Kuzler

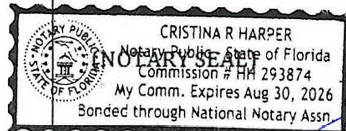
Name of person making statement



Signature of Notary Public - State of Florida

Cristina R. Harper

Name of Notary Typed, Printed, or Stamped



Personally Known ☒ OR Produced Identification ☐

Type of Identification Produced _____

EMPLOYEE BACKGROUND VERIFICATION AFFIDAVIT

I, Christopher Kuzler, PE of Ardurra Group, Inc., attest that all personnel used in
(Print Name) (Company Name)

the performance of this work have had a criminal background check with a passing grade and have been drug tested with a passing grade and are legally documented to work in the United States.

Charles F. Huxler

Signature of Affiant

Christopher Kuzler, PE

Print Name

March 5, 2026

Date _____

STATE: **FLORIDA**
COUNTY: miami-Dade

Sworn to (or affirmed) and subscribed before me this 5th day of March, 2026, by: christopher E. Kuzier

Name of person making statement
Cristina R. Harper

Signature of Notary Public - State of Florida
Cristina R. Harper

Name of Notary Typed, Printed, or Stamped

Personally Known OR Produced Identification

Type of Identification Produced

CONTRACTOR/VENDOR E-VERIFY
AFFIDAVIT

STATE OF Florida
COUNTY OF Broward

BEFORE ME, the undersigned authority, appeared Christopher Kuzler, PE,
who first being duly sworn hereby swears or affirms as follows:

1. I make this affidavit on personal knowledge.
2. I am over the age of 18 years and otherwise confident to make this Affidavit.
3. I am the Authorized Representative of Ardurra Group, Inc. (the "Contractor/Vendor").
4. I am authorized by Ardurra Group, Inc. to make this Affidavit on behalf of Contractor/Vendor.
5. Contractor/Vendor acknowledges that Section 448.09, Florida Statutes, makes it unlawful for any person to knowingly employ, hire, recruit, or refer, for private or public employment, an alien who is not duly authorized to work in the United States.
6. Contractor/Vendor acknowledges that Section 448.095, Florida Statutes, prohibits public employers, contractors, and subcontractors from entering into a contract unless each party to the contract registers and uses E-Verify.
7. Contractor/Vendor is in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes.
8. Contractor/Vendor understands it shall remain in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes, during the term of any contract with the City.

2607394v1

9. Contractor/Vendor's subcontractors are in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes.

10. Contractor/Vendor shall ensure compliance with the requirements of Sections 448.09 and 449.095, Florida Statutes, by any and all of its subcontractors.

11. Neither the Contractor/Vendor, nor any subcontractor of Contractor/Vendor, has had a contract terminated by a public employer for violating Section 448.095, Florida Statutes, within the year preceding the date of this Affidavit.

12. If the Contractor/Vendor, or any subcontractor of Contractor/Vendor, has a contract terminated by a public employer for any such violation during the term of any contract with the City, it shall provide immediate notice thereof to the City.

Christopher E. Kuzler
Signature of Affiant

on behalf of Contractor/Vendor

By: Christopher Kuzler, PE

As its: Authorized Representative

STATE OF Florida

Dated: March 5, 2026

COUNTY OF Broward miami-Dade

Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence or ☐ online notarization, this 5th day of March, 2026, by Christopher E. Kuzler, on behalf of Ardurra Group, Inc., who is personally known to me or who has produced _____ as identification.

Cristina R. Harper

Print Name: Christopher Kuzler, PE
Notary Public of the State of Florida

My Commission Expires:



State of Florida

Department of State

I certify from the records of this office that ARDURRA GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on December 19, 1977.

The document number of this corporation is 555540.

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

I further certify that said corporation has not filed Articles of Dissolution.

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



[Signature]
Secretary of State

Tracking Number: 6119626275CC

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

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

**FOREIGN COUNTRY OF CONCERN AFFIDAVIT –
PERSONAL IDENTIFYING INFORMATION CONTRACT**

Section 287.138, Florida Statutes, prohibits a Florida “Governmental entity”¹ from entering into or extending contracts with any other entity whereby such a contract, or extension thereof, could grant the other entity access to an individual’s personal identifying information if that entity is associated with a “Foreign Country of Concern.”² Specifically, section 287.138(2), Florida Statutes, prohibits such contracts with any entity that is owned by the government of a Foreign Country of Concern, any entity in which the government of a Foreign Country of Concern has a “controlling interest,”³ and any entity organized under the laws of or which has its principal place of business in a Foreign Country of Concern.

As the person authorized to sign on behalf of Respondent, I hereby attest that the company identified above in the section entitled “Respondent Vendor Name” is not an entity owned by the government of a Foreign Country of Concern, no government of a Foreign Country of Concern has a controlling interest in the entity, and the entity has not been organized under the laws of or has its principal place of business in a Foreign Country of Concern.

I understand that pursuant to section 287.138, Florida Statutes, I am submitting this affidavit under penalty of perjury.

Respondent Vendor Name: Ardurra Group, Inc.

Vendor FEIN: 59-1782900

Vendor’s Authorized Representative Name and Title: Christopher Kuzler, PE, Authorized Representative

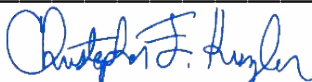
Address: 900 SE 3rd Avenue, Suite 203

City: Ft. Lauderdale State: FL Zip: 33316

Phone Number: 813-549-2287

Email Address: ckuzler@ardurra.com

Certified By: Christopher Kuzler, PE

AUTHORIZED SIGNATURE 

Print Name and Title: Christopher Kuzler, PE, Authorized Representative

Date: March 10, 2026

¹ As defined in Section 287.138 (1)(d), Florida Statutes.

² As defined in Section 287.138 (1)(c), Florida Statutes.

³ As defined in Section 287.138 (1)(a), Florida Statutes.

City of Cooper City
RFQ2025-1-CM Architectural Services for Design Criteria Packages for a New Public Safety Complex

NON-COLLUSION AFFIDAVIT

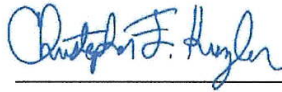
By submission of this affidavit, the Proposer certifies that this price is made independently and free from collusion. Proposer shall disclose below, to the best of its knowledge, any City of Cooper City officer or employee, or any spouse, son, daughter, stepson, stepdaughter, or parent of any such officer or employee, who is an officer or director of, or has a material interest in, the Proposer's business who is in a position to influence this procurement. Any City of Cooper City officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. For purposes hereof, a person has a material interest if he or she directly or indirectly owns more than five percent (5%) of the total assets or capital stock of any business entity, or if he or she otherwise stands to personally gain if the contract is awarded to this vendor.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Cooper City Code of Ordinances.

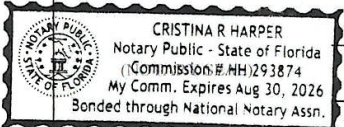
NAME

RELATIONSHIP

_____	_____
_____	_____
_____	_____



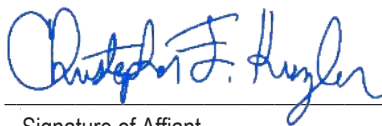
Signature

STATE: <u>Florida</u>	
COUNTY: <u>miami-dade</u>	
Sworn to (or affirmed) and subscribed before me this <u>5th</u> day of <u>March</u> , 20 <u>26</u> , by: <u>Christopher E. Kuzler</u>	
Name of Person Making Statement	
	
Signature of Notary Public	
<u>Cristina R. Harper</u>	
Name of Notary Public (Typed, Printed, Stamped)	
Personally Known: ☒	OR Identification Produced: _____
Type of Identification Produced: _____	

NON-CONFLICT OF INTEREST STATEMENT

1. A. I am the Authorized Representative of Ardurra Group, Inc. with a
[Insert Title] [Insert Company Name]
a local office in Ft. Lauderdale, FL and principal office in Miami, FL.
2. The entity hereby submits a proposal/offer in response to RFP 2024-6-FIN, BANKING SERVICES.
3. The AFFIANT has made diligent inquiry and provided the information in this statement affidavit based upon its full knowledge.
4. The AFFIANT states that only one submittal for this solicitation has been submitted and tendered by the appropriate date and time and that said above stated entity has no financial interest in other entities submitting a proposal for the work contemplated hereby.
5. Neither the AFFIANT nor the above named entity has directly or indirectly entered into any agreement, participated in any collusion or collusive activity, or otherwise taken any action which in any way restricts or restrains the competitive nature of this solicitation, including but not limited to the prior discussion of terms, conditions, pricing, or other offer parameters required by this solicitation.
6. Neither the entity nor its affiliates, nor anyone associated with them, is presently suspended or otherwise prohibited from participation in this solicitation or any contract to follow thereafter by any government entity.
7. Neither the entity nor its affiliates, nor anyone associated with them, have any potential conflict of interest because and due to any other clients, contracts, or property interests in this solicitation or the resulting project.
8. I hereby also certify that no member of the entity's ownership or management or staff has a vested interest in any City Division/Department/Office.
9. I certify that no member of the entity's ownership or management is presently applying, actively seeking, or has been selected for an elected position within City of Cooper City government.
10. In the event that a conflict of interest is identified in the provision of services, I, the undersigned, will immediately notify the City in writing.

By the signature(s) below, I/we, the undersigned, as authorized signatory to commit the firm, certify that the information as provided in this attachment is true and correct at the time of submission.



Signature of Affiant

Christopher Kuzler, PE

Printed Name & Title of Affiant

OWNERSHIP DISCLOSURE AFFIDAVIT

1. If the contact or business transaction is with a corporation, the full legal name and business address shall be provided for each officer and director and each stockholder who holds directly or indirectly five percent (5%) or more of the corporation's stock. If the contract or business transaction is with a trust, the full legal name and address shall be provided for each trustee and each beneficiary. All such names and addresses are (Post Office addresses are not acceptable), as follows:

Full Legal Name

Address

Ownership

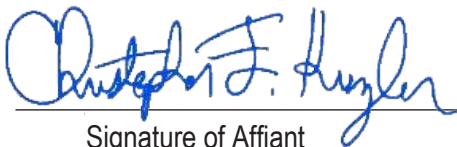
LJ Avalon Holdings, LLC, 1000 NW 57th Court, Ste 800, Miami, FL 33126, 100%

%

%

%

2. The full legal names and business address of any other individual (other than subcontractors, materialmen, suppliers, laborers, or lenders) who have, or will have, any interest (legal, equitable, beneficial or otherwise) in the contract or business transaction with the City are (Post Office addresses are not acceptable), as follows:



Signature of Affiant

Christopher Kuzler, PE

Print Name

March 10, 2026

Date



ARDURRA-01

KSUTTON

CERTIFICATE OF LIABILITY INSURANCE

 DATE (MM/DD/YYYY)
 12/31/2025

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 Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102		CONTACT NAME: PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279 E-MAIL ADDRESS: admin@amesgough.com	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A : Charter Oak Fire Insurance Company A++ (XV)	
		INSURER B : Phoenix Insurance Company A++, XV	
		INSURER C : Travelers Property Casualty Company of America, A++, XV	
		INSURER D : National Fire & Marine Insurance Company A++ X	
		INSURER E :	
		INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☒ PRO-JECT ☐ LOC ☐ OTHER:			630-5X487435	1/1/2026	1/1/2027	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			810-5X558309	1/1/2026	1/1/2027	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 10,000			CUP-5X642114	1/1/2026	1/1/2027	EACH OCCURRENCE \$ 15,000,000 AGGREGATE \$ 15,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	UB-5X489557	1/1/2026	1/1/2027	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab.			42-EPP-306878-08	1/1/2026	1/1/2027	Per Claim/Aggregate 10,000,000

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

CERTIFICATE HOLDER

CANCELLATION

EVIDENCE OF COVERAGE	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

ACORD 25 (2016/03)

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**SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY
PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the CITY OF COOPER CITY, FLORIDA

by: Christopher Kuzler, PE, Authorized Representative
(print individual's name and title)

for: Ardurra Group, Inc.
(print name of entity submitting sworn statement)

whose business address is: 900 SE 3rd Avenue, Suite 203, Ft. Lauderdale, FL 33316 and

(if applicable) its Federal Employer Identification Number (FEIN) is: 59-1782900.

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____ - _____ - _____).

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentations.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:

- a) A predecessor or successor of a person convicted of a public entity crime; or
- b) An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which proposals or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement that I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies).

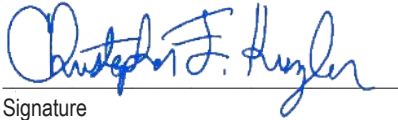
☒ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

☐ This entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged

with and convicted of a public entity crime subsequent to July 1, 1989.

_ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.



Signature

Scrutinized Companies Affidavit

CERTIFICATION PURSUANT TO FLORIDA STATUTE § 287.135

I, Christopher Kuzler, PE, on behalf of, Ardurra Group, Inc.

Print Name and Title

Company Name

certify that Ardurra Group, Inc. does not:

Company Name

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Contractor of the City's determination concerning the false certification. The Contractor 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 the Contractor 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 Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from: 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel; and

2) Contracting with companies, for goods or services over \$1,000,000.00 that are on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

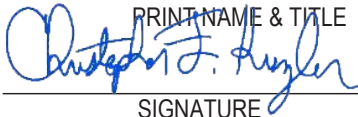
As the person authorized to sign on behalf of the Contractor, I hereby certify that the company identified above in the section entitled "Contractor Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List, is not listed on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, and is not engaged in business operations in Syria. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Ardurra Group, Inc.

COMPANY NAME

Christopher Kuzler, PE, Authorized Representative

PRINT NAME & TITLE



SIGNATURE

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

Request for Taxpayer Identification Number and Certification

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

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

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

Print or type. See Specific instructions on page 3.	1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.) Ardurra Group, Inc.	
	2 Business name/disregarded entity name, if different from above.	
	3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes. ☐ Individual/sole proprietor ☒ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate ☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. ☐ Other (see instructions)	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____ (Applies to accounts maintained outside the United States.)
	3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐	
	5 Address (number, street, and apt. or suite no.). See instructions. 1000 NW 57th Court, Suite 800 6 City, state, and ZIP code Miami, Florida 33126 7 List account number(s) here (optional)	Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

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

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

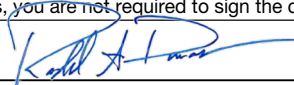
Social security number									
			-				-		
or									
Employer identification number									
5	9	-	1	7	8	2	9	0	0

Part II Certification

Under penalties of perjury, I certify that:

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

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

Sign Here	Signature of U.S. person 	Date 01/05/2026
------------------	---	--------------------

General Instructions

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

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

What's New

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

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

Purpose of Form

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

HUMAN TRAFFICKING AFFIDAVIT

In compliance with Section 787.06(13), Florida Statutes, this affidavit must be completed by an officer or representative of a nongovernmental entity that is executing, renewing, or extending a contract with the City of Cooper City (the "Governmental Entity").

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

1. I am over the age of 18 and I have personal knowledge of the matters set forth herein.
2. I am an officer or representative of Ardurra Group, Inc., a non-governmental entity and I am authorized to provide this affidavit on behalf of Nongovernmental Entity)
3. Nongovernmental Entity, and any of its subsidiaries or affiliates, do not use coercion for labor or services, as those terms are defined in Section 787.06, Florida Statutes, as may be amended from time to time.
4. If, at any time in the future, Nongovernmental Entity does use coercion for labor or services, Nongovernmental Entity will immediately notify Governmental Entity and no contracts may be executed, renewed, or extended between the parties.
5. I have read the foregoing affidavit and confirm that the facts stated in it are true, and are made for the benefit of, and reliance by Governmental Entity.

Company: Ardurra Group, Inc.

Authorized Signature: 

Date: March 5, 2026

Printed Name: Christopher Kuzler, PE

Title: Authorized Representative

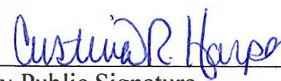
STATE OF Florida

COUNTY OF miami-dade

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 5th day of March, 2025, by

Christopher Kuzler, as Authorized Representative on behalf of the Corporation company/corporation. They ☒ are personally known to me or ☐ have produced _____ as identification.

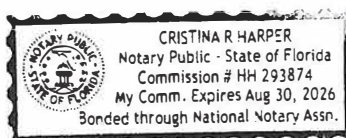
(Affix Notary Stamp or Seal)



Notary Public Signature

Print, Type or Stamp Name of Notary: Cristina R. Harper

My commission expires: August 30, 2026





WWW.ARDURRA.COM