

January 10, 2024

Mr. Skender Coma
Town of Highland Beach
3614 South Ocean Boulevard
Highland Beach, FL 33487

Subject: RFQ No. 24-001: Continuing Professional Consulting Services (CCNA)

Dear Mr. Coma,

Highland Beach needs a comprehensive engineering firm to assist the Town implement a wide range of projects on a continuing contract basis. Baxter & Woodman (formerly Mathews Consulting) has had the privilege of serving the Town since 2016. We've been assisting the Town under the current contract to provide engineering services on a variety of projects that include most of the tasks listed in this Request for Qualifications, including most recently the Lift Station #3 and Gravity Sewer Main Inspection projects.

Baxter & Woodman has assembled a comprehensive project team that is familiar with the Town's policies and procedures and has ample experience to assist with the following services:

- **Civil Engineering**
- **Water/Wastewater/Stormwater**
- **Transportation**
- **Mechanical/Electrical/Plumbing**
- **Other Services: GIS Asset Management and Vulnerability/Resiliency/Sea Level Rise**

We at Baxter & Woodman consider ourselves first and foremost to be municipal engineers. Our team has a great deal of experience in providing services for all aspects of the community's needs, including roadway and traffic engineering services, utility rehabilitation and replacement, master planning and CIP programming, engineering permit application review and approval, and public information programs. All of our efforts are aimed at identifying and addressing the needs of the community and assisting the Town Commissioners and Staff in meeting the needs of the residents of Highland Beach.

We offer a unique approach to serving the Town as we will protect your interests, provide high-quality engineering solutions, and save you money with our cost-effective services and solutions. Our strategy focuses on:

- **Serve as your Valued Partner:** We will work with the Town as a valued partner to accomplish the Town's goals and objectives.
- **Effective Project Management:** A key component to effective project management is having one point of contact within the engineering firm who can respond to issues and needs pertaining to the contract. I will serve as the Town's main point of contact and confirm our team has the resources to complete each project on time and within budget.
- **Disciplinary Experts:** Our team includes experts in every area needed by the Town for this scope. We have a pool of 37 Florida professionals who will be assigned based on Highland Beach's project scope and schedule.

If the Town has any questions after reviewing our qualifications, please contact me at 561-425-7715 or via email at rtravis@baxterwoodman.com. We look forward to working with you!

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



Rebecca Travis, PE
Executive Vice President/Florida Division Manager

Town of Highland Beach

CONTINUING PROFESSIONAL ENGINEERING, ARCHITECTURAL, LANDSCAPE
ARCHITECTURAL, SURVEYING AND MAPPING CONSULTING SERVICES (CCNA)
RFQ No. 24-001

Contents

1. Letter of Interest.....	2
Table of Contents.....	3
2. Personnel Qualifications.....	4
3. Past Experience	58
4. Approach to Project Management.....	93
5. Resources, Availability, and Commitment	105
6. References	111
7. Certified Minority Business Enterprise	112
Submittal Forms.....	113

The strength of Baxter & Woodman is our people and our purpose. Building community value with every project we do is the force that drives us, and our fundamental core values are the principles we live by.



Integrity. Act with honesty, integrity, and respect to all



Involvement. Promote a passion for environmental stewardship and community involvement.



Success. Strive for success for both our clients and Baxter & Woodman



Ingenuity. Foster a work environment that promotes creativity and ingenuity



Service. Deliver superior client service



Growth. Encourage continued learning and growth in our profession

2. Personnel Qualifications



**Principal in Charge/
Project Director**
Rebecca Travis, PE

Drainage Project Manager
Jeffrey Hiscock, PE

Water/Wastewater Project Manager
Sira J. Prinyavivatkul, PE

PROJECT ENGINEERS

Transportation Engineers
Jeffrey Weatherford, PE, PTOE®
Zachary Williams, PE
Christina Stoczynski, EI
Brandon Buzzell, PE, SE
Joshua S. Harris, PE, PTOE®

Stormwater Engineers
Cindy Young, PE
Spencer Grossinger, EI
Kathryna Clark, EI
Thu Nguyen, EI

Water/Wastewater Engineers
Arthur "Jake" Hurley, PE
Kyle Scott, PE
Alexis Shotton, PE
Emily Altman, EI

Construction Management
Richard Chipman, CGC
Andrew Capellini
Anthony Monroe
Brad Stoecker

**Utility Coordination/
Grant Administration**
Alexis Shotton, PE
Michelle Zhao, EI

Public Relations
Lori J. Polantz
GIS Asset Management
Andy Zaletel, GISP

SUBCONSULTANTS

Survey
Dennis J. Leavy & Associates
Dave Bower, PSM

Electrical
Electrical Design Associates
Dameion Donaldson, PE

Environmental
Cyriacks Environmental Consulting Service, Inc.
(CECOS)
Wendy Cyriacks
Miguel Fernandes, Ph.D.
Shannon Kelley
Trent Snyder
Kevin Cash, M.S.

Geotechnical & Materials Testing
WIRX Engineering, LLC
Andrew Nixon, PE
Clifford Hippolyte, PE, GC
Gregory J. Stelmack, PE

Rebecca Travis, PE, ENV SP - Primary Responsibility for Town's Contract Principal in Charge/Project Director



Joined Firm in 2003

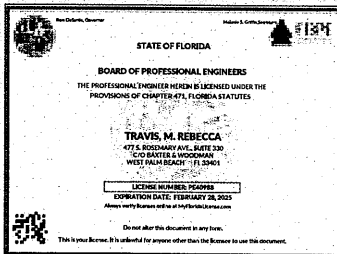
Years of Experience 40

EDUCATION

B.S., Civil Engineering, Iowa
State University, 1984

REGISTRATIONS

Licensed Professional
Engineer: Florida, Texas



LEED Green Associate

Envision Sustainability
Professional Credential

Florida Dept. of Environmental
Protection, Stormwater
Erosion & Sedimentation
Control Qualified Stormwater
Management Inspector
(#34512)

BAXTER & WOODMAN
Consulting Engineers.

Rebecca has progressively responsible civil engineering design and project management experience in both private sector residential, and commercial land development, as well as municipal stormwater, roadway, and utility projects. Her range of experience includes performance of complex professional engineering work involving investigation, planning, design development, permitting, management, and construction of public and private developer improvement projects. Rebecca acts in the capacity of Town Engineer for several south Florida communities.

REPRESENTATIVE PROJECTS

Lantana, FL

Municipal Engineering Services

As Town Engineer, Rebecca reviews site plans, Special Exceptions, Variance Requests, etc.; reviews large and small scale commercial and residential developments, and industrial building projects; coordinates with FDOT regarding Lantana Road/I-95 interchange and Dixie Highway modifications; reviews turn lane requirements for traffic generating projects; reviews traffic studies; reviews plat applications; analyzes Town-wide wastewater flow generation to determine treatment capacity agreement limits; analyzes parking stall counts and required vehicle turning radius for Town roadways; reviews drainage designs and issues drainage permits; and attends Plan Review Committee meetings and Town Council meetings as required. Rebecca also assists the Town with emergency projects, projects associated with the Town's WTP, and coordination with various County and State agencies related to their facilities located within Town limits or with regulatory requirements

Gulf Stream, FL

Ten-year Capital Improvement Program (CIP)

Senior Project Engineer for the analysis of Town-owned public infrastructure, including roadways, water main, stormwater drainage, and related public right-of-way appurtenances to catalog their inventory and current condition. Assisted with the development of a 10-year CIP prioritizing the "worst-first" recommendations for replacement and reconstruction, providing the Town with a roadmap for capital maintenance into the future. Continued assistance is provided on a regular basis to update and adjust the CIP program costs and schedule.

ASSOCIATIONS

National Association of
Women in Construction

Water Environment Federation

American Water Works
Association

American Public Works
Association

Florida Stormwater
Association

TRAINING/CERTIFICATION

Florida Dept of Transportation
GAP Web-based System for
Local Project Delivery



Wilton Manors, FL

Water, Wastewater, and Stormwater Integrated Master Plan

As Town Engineer on selected projects, Rebecca provides Development Review Committee reviews for traffic studies, site plans, parking requirements, roadway and parking lot configuration. In addition, Rebecca reviews developer projects with regards to water and wastewater system capacity to support the proposed construction.

NPDES Permitting & Annual Report Preparation

Project Manager for program review and Annual NPDES Report preparation for:

Town of Highland Beach

Town of Lantana

City of Wilton Manors

Town of Gulf Stream

Town of Lauderdale-By-The-Sea

Lake Park, FL

Lake Shore Drive Drainage Improvements

Project Director and Design Engineer for roadway, ADA-compliant pathway, side street parking, signing and pavement markings, and other related improvements on Lake Shore Drive, starting from the entrance of the Lake Park Marina north 3,220-feet to Castlewood Drive. The final pavement section called for Asphalt Base Course, Type B-12.5 ("Blackbase") to provide additional resistance to pavement degradation due to groundwater tidal influence resulting in repeated base rock inundation from the adjacent Intracoastal Waterway.

Highland Beach, FL

Pathway Replacement Project Along State Road A.1.A

Project Engineer for providing preliminary engineering design services for the replacement of approximately three miles of the existing asphalt pathway located along the west side of State Road A1A from the northern limits to the southern limits of the Town. Prepared a Preliminary Design Report (PDR) that evaluated several pathway material options, including asphalt, concrete, concrete with decorative stamped concrete at the intersections, and concrete with decorative pavers at the intersections. The PDR also provided preliminary cost estimates for the addition of decorative

pathway lighting at the intersections, decorative street signposts, the provision of benches, trashcans, or other types of hardscape features, and for the replacement of Town monument signs "in kind" at the Town limits. Minimum design standard requirements were reviewed with respect to the Florida Department of Transportation, the Manual on Uniform Traffic Control Devices, the Florida Accessibility Code, and local codes. Presentation was made before the Town Council and residents of the proposed design elements.

Lauderdale-By-The-Sea, FL

Sidewalk ADA Compliance Inventory and Recommendations

Project Manager for a Town-wide inventory and review of the sidewalk connections at street intersections and determined whether the connections are ADA compliant. An inventory of all Town owned and maintained sidewalks at street intersections within the Town limits was conducted in the field and used to prepare a technical memorandum including all required sidewalk upgrades and associated cost estimates

West Palm Beach, FL

Lift Station Nos. 26, 45, and 51 Rehabilitation

Design Engineer for the rehabilitation for Lift Station Nos. 26, 45, and 51. The project consisted of converting the existing "can-type" station (with two 20hp pumps) to submersible stations which are located within the median of Australian Avenue, installing two new 20hp submersible pumps with associated rails and hatches, structural modifications of the existing wet well to convert it into a submersible wet well, demolishing the concrete entrance tube and extend the concrete walls to grade, and provided new concrete top slab with hatches. Coordination with electrical design subconsultant for replacement of the existing control panel and RTU, replacement of the existing 30kW with a new 30kW standby generator with base mounted tank (LS 51). At lift station No. 51, the existing emergencydiesel driven standby generator was replaced with a new generator unit.



Jeffrey G. Hiscock, PE
Stormwater Project Manager



Joined Firm in 2018

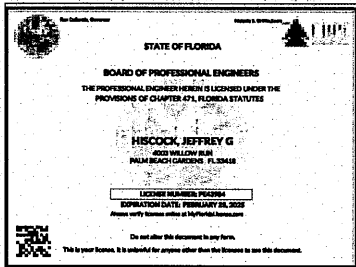
Years of Experience 38

EDUCATION

B.S., Mechanical Engineering,
University of Florida, 1986

REGISTRATIONS

Licensed Professional
Engineer: Florida



Jeff has extensive engineering management experience with focus on water management engineering, stormwater pumping station design, and Geographic Information Systems (GIS) programming. Jeff is specifically experienced with watershed assessments and detailed basin flood-routing analyses using computational hydrology and hydraulics computer modeling, and GIS.

REPRESENTATIVE PROJECTS

West Palm Beach, FL

Stormwater Master Plan

Served as Project Manager and Engineer of Record for preparation of the City-wide Master Plan, which included recommendations regarding the implementation of stormwater programs and projects throughout the City. The Plan addressed the short-term and long-term stormwater improvements needed in the City along with a recommended Capital Improvement Plan. This Plan was comprehensive and practical and addressed the City's stormwater needs as well as addressing water quality by proposing several large stormwater filters to clean the runoff before being discharged to the Lake Worth Lagoon. The Plan was fully implemented by the City over the 10-year planning horizon that was established in the Plan.

West Palm Beach, FL

The Renaissance Project

Served as Project Manager and Engineer of Record for the Renaissance Project, which represented an innovative water diversion plan that includes pumping stormwater from 375 acres of downtown West Palm Beach to the City's water supply lakes where it is treated with alum and used for public consumption. Project included a 72" jack & bore under Okeechobee Boulevard, an 84-inch jack and bore under FEC Railroad, an 84-inch jack & bore under Australian Avenue, design of a 250 CFS storm water pumping station, alum injection system, five-acre settling basin, five-acre wetland cell, and other water diversion structures. Jeff managed all aspects of project including feasibility studies, grant applications, design, permitting, and construction administration.

Lake Park, FL

Lake Shore Drive Drainage Improvements

Project Manager for reconstructed roadway, ADA compliant shared pathway, lighting, landscaping and other related improvements on Lake Shore Drive starting from the entrance of the Lake Park Marina north 3,220 feet to Castlewood Drive. Innovative design was

PRESENTATIONS

Keeping Ahead of Sea Level Rise - A Holistic Approach in Lake Park, Florida - Florida Stormwater Association Annual Conference, June 2020

GIS Tools for Assessing Sea Level Rise Vulnerability - South Florida GIS Expo, August 2023

proposed to combat Sea Level Rise with a 22,500 GPM stormwater pumping station and incorporates water quality with an offsite bioswale/detention system. Also assisted with the acquisition of a \$3.5m Hazard Mitigation Grant. The project won awards from FAS, ACEC and APWA and was also featured in Civil+Structural Engineer magazine.

Wilton Manors, FL

Sea Level Rise Vulnerability Assessment

Project manager and lead engineer for Sea Level Rise Vulnerability Assessment for the City of Wilton Manors, which received a grant from the Resilient Florida Grant Program (RFGP) to perform a vulnerability assessment of impacts related to sea level rise. Tasks included data acquisition, hydrologic and hydraulic modeling, exposure analysis of 25 different SLR scenarios (2023, 2040, and 2070, low and high predictions with and without storm events and king tides), sensitivity analysis to determine the impacts to City assets, presentations to City-selected Steering Committee, public outreach meeting and City Commission meeting, and preparation of Sea Level Rise Vulnerability Assessment report that includes information related to each of the tasks listed above as well as recommendations to mitigate the impacts of sea level rise in the future.

Gulf Stream, FL

King tide Resiliency Study

Project manager and lead engineer for a study to assess the Town's stormwater resiliency. This request followed recent king tide events that resulted in water levels in the Intracoastal Waterway breaching the top of an existing seawall and sheetflowing over private property, washing into the Town's road right-of-way. Flooding vulnerability as a result of king tides was assessed using Palm Beach County's latest LiDAR topography by identifying (1) low areas within the Town's rights-of-way, (2) the level of protection provided by existing check valves on stormwater outfall pipes and (3) identifying other areas threatened by potential seawall breaches. The effects of projected future sea levels were also examined with recommendations for the Town to consider for phasing improvements to prevent or mitigate the flooding.

Delray Beach, FL

Osceola Park Neighborhood Improvements

Senior Project Engineer for the engineering preliminary design report, final design, public outreach, permitting, bidding, and construction engineering services for 810 LF of potable water main, 13,030 LF of sanitary sewer improvements, 4,345 LF of drainage improvements, 10,125 LF of roadway reconstruction, 16,875 LF of



roadway mill and overlay, 4,350 LF of permeable alleyway paving, landscaping, street lighting, sidewalk, and signing and marking improvements in the Osceola Park Neighborhood. Project received an outstanding achievement award from the Florida Concrete & Products Association for the incorporation of permeable pavement into the design.

Pompano Beach, FL

Kendall Lake Drainage Improvements

Project Manager for design, permitting and bidding of the proposed stormwater improvements within the Kendall Lake Neighborhood to address roadway flooding. The project included drainage structures, piping, exfiltration trench and outfall improvements to an Impaired Waterbody. Various permits were obtained for this project as well. Permits obtained include Broward County Environmental Resource Permit, Broward County Surface Water Management License, Broward County Environmental License, and Broward County Traffic Permit.

Pompano Beach, FL

Gateway Drive Stormwater Improvements

Project Manager for design, permitting, and bidding of the proposed stormwater improvements within the Gateway Drive area to address roadway flooding. The project included proposed drainage structures, piping, and outfall improvements. Permits obtained include Broward County Environmental Resource Permit, Surface Water Management License and Traffic Permit, SFWMD Dewatering and ROW permits, and US Corps of Engineers Nationwide and 408 Permits.

Pompano Beach, FL

Esquire Lake Stormwater Improvements

Project Manager for design, permitting, and bidding of the proposed stormwater improvements within the Esquire Lake Neighborhood to address roadway flooding and standing water issues after rainfall events. The project included proposed drainage structures, piping, exfiltration trench, and outfall improvements. Permits obtained include Broward County Environmental Resource Permit, Broward County Surface Water Management License, Broward County Traffic Permit, and City of Pompano Beach Building Department.

Wilton Manors, FL

Water, Wastewater and Stormwater Integrated Master Plan

Project Manager for Stormwater Master Plan portion of project. GIS datasets of land use, soils, topography (LiDAR) and infrastructure were used with customized GIS algorithms to create hydraulic and hydrologic model data for the entire City. Since the Middle River is tidal, there are concerns regarded Sea Level Rise (SLR)



were used with customized GIS algorithms to create hydraulic and hydrologic model data for the entire City. Since the Middle River is tidal, there are concerns regarding Sea Level Rise (SLR) in areas that are already impacted by king tides. Inter-connected Pond Routing Program (ICPR4) was used to assess the existing conditions and future conditions using a GIS future land use dataset and assumptions for SLR. Short-term and long-term improvements were recommended based on the modeling results.

West Palm Beach, FL

Monceaux Road Stormwater Improvements

Project Engineer for the design and permitting of drainage infrastructure for Monceaux Road as a subconsultant. This project is one of several recommended in the West Palm Beach Stormwater Master Plan.

STORMWATER PUMPING STATIONS

Jeff served as Project Manager and the Engineer of Record for 17 state-of-the-art stormwater pumping station designs during his career. Most stations included electric submersible pumps and buildings with loading bays, crane hoist systems, backup generators and external aboveground fuel tanks. Some projects completed while working for others:

- Mirasol Stormwater Pumping Stations and Control Structures for NPBCID (Northern Palm Beach County Improvement District)
- PGA National Central Stormwater Pumping Station Renovation for NPBCID
- Renaissance Project Primary Pumping Station for West Palm Beach
- Ibis Stormwater Pumping Stations for NPBCID
- Ibis Intermediate Pump Station for NPBCID
- East and South Pump Stations for PBC Department of Airports
- Jungle Road Pump Station (D-16) for Palm Beach
- El Brillo Way Pump Station (D-18) for Palm Beach
- Breakers Hotel (D-13) Stormwater Pumping Station, Palm Beach
- Village of Wellington 12th Fairway Stormwater Pump Station #5
- Hamilton Bay Stormwater Pump Station for NPBCID
- Baywinds Stormwater Pump Stations for NPBCID
- Village of Wellington Pump Station No. 6 for ACME Improvement District
- Stormwater Pump Station Assessments for ACME Improvement District
- Lake Shore Drive Stormwater Pumping Station for Town of Lake Park



Sira "Jockey" Prinyavivatkul, PE

Water/Wastewater Project Manager



Joined Firm in 2019

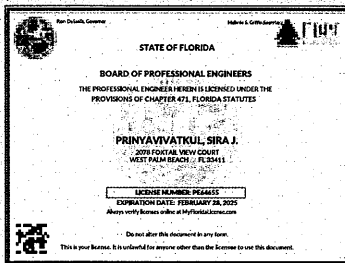
Years of Experience: 24

EDUCATION

B.S., Ocean Engineering,
Florida Atlantic University,
2002

REGISTRATIONS

Licensed Professional
Engineer: Florida



ASSOCIATIONS

American Society of Civil
Engineers (ASCE)

Water Environment Federation
(WEF)

BAXTER & WOODMAN
Consulting Engineers

Sira serves as Baxter & Woodman's Water and Wastewater Department Manager for the Florida Division. His expertise includes design of water and wastewater infrastructure including lift station, sanitary sewer, stormwater management, potable water, and water reclamation projects. His background also includes providing engineering design, permitting, bidding, construction management and observation for roadway, parking lot, and culvert improvements, as well as levee inspections.

REPRESENTATIVE PROJECTS

Boynton Beach, FL

Lakeside Gardens Drainage Improvements

Project Manager for the Lakeside Gardens Drainage Improvements Phase 1. The engineering services included successor engineering, constructability review, value engineering, permitting, bidding assistance, and construction management and part-time inspection services.

Gulf Stream, FL

Core Area Improvements

Project Manager for the data collection, engineering design, permitting, and bidding assistance for the Town of Gulf Stream's Core Area Improvements project. The Core Area consists of approximately 80 acres of single and multi-family residences. The improvements included the replacement of all existing asbestos cement water mains, remediation of localized ponding, and replacement of roadway pavement. The existing asbestos cement water mains were replaced with C900 PVC water mains via open cut trench methods and by trenchless technology through pre-chlorinated pipe bursting. The right-of-ways were restrictive and the use of pre-chlorinated pipe bursting allows the new water main to replace the old water main in situ. All roadways were redesigned with valley gutters and longitudinal grading with modifications to the existing stormwater system to provide positive discharge.

Gulf Stream, FL

State Road A1A Water Main Improvements - Phase II

Project Manager for the engineering design services to prepare contract documents (drawings and technical specifications) for the detailed design of the replacement of existing 6-inch water main along State Road A1A with a new 12-inch water main and replacement of the 6-inch water mains on Sea Road, County Road, and Little Club Road with 8-inch water mains. Baxter & Woodman provided data collection, design, permitting, and bidding services for this project.

Gulf Stream, FL

Wastewater Feasibility Study

Project Manager for the preparation of Wastewater Feasibility Study to assess the sewerage options to convert the Town from septic to centralized sewer collection system. Options included gravity sewer, low pressure sewer and vacuum sewer systems. Alternatives were evaluated for the transmission of the wastewater to either the City of Boynton Beach, City of Delray Beach, or a combination of the two. Preliminary layouts were developed for each option and alternative with associated construction, operation, and maintenance cost estimates.

Lantana, FL

Water Treatment Plant High Service Pump Improvements

Project Manager for design services to prepare contract documents (drawings and technical specifications) for the detailed design of the replacement of four existing high service pumps for the Lantana Water Treatment Plant. The detailed design included the necessary site-civil, mechanical, electrical, instrumentation and control (I&C), and structural improvements required for the replacement of the high service pumps and relocation of electrical control components into a new independent concrete masonry unit electrical building.

Lauderdale-By-The-Sea, FL

Palm Club Sanitary Sewer System Design

Project Manager for the data collection, engineering design, permitting, public participation & coordination, bidding assistance, construction administration, and part-time construction inspection services related to the septic to sewer conversion of the Palm Club Sanitary Sewer System project. Baxter & Woodman provided design services for a conventional gravity sewer system including the design of a lift station to transmit wastewater to the Pompano Beach force main system.

Wilton Manors, FL

NW 29th Street and NW 30th Court Water Main Improvements

Project Manager providing professional engineering services for the preparation of contract documents for the potable water system upgrades for NW 29th Street and NW 30th Court. Each location was separated into phases: Phase 1 - NW 29th Street and Phase 2 - NW 30th Court. A single set of contract document (drawings and technical specifications) for the project was developed.



Wilton Manors, FL

Water, Wastewater, and Stormwater Integrated Master Plan

Project Manager for the preparation of an Integrated Master Plan to inventory, assess and prepare a Capital Improvement Plan (CIP) for the Water Distribution System, Wastewater Collection System, and Stormwater System. The CIP includes improvement recommendations with estimated budgetary cost estimates for short-term (1 to 10 years) and long-term (11 to 25 years) planning horizons with an emphasis on the redevelopment expected to occur by 2025 according to the City.

Florida Keys Aqueduct Authority, FL

Key Haven Wastewater Force Main Improvements

Project Manager for the design of a wastewater force main from Key Haven to Key West and associated pump station upgrades. FKAA requested we extend their existing wastewater force main from the Key Haven subdivision west along US Highway 1/Cow Key channel to connect to the City of Key West gravity sewer at the intersection of Duck Avenue and South Roosevelt Boulevard in Key West. A combination of installation methods were used, including directional drilling, slip-lining, and open cut. Existing pump stations was evaluated for necessary upgrades to accommodate the extension.

West Palm Beach, FL

North Shore Drive Subaqueous Water Main Crossing

Project Manager for the engineering design services for the design of a subaqueous crossing at North Shore Drive in the City. The existing bridge mounted water main had reached the end of its useful service life. Baxter & Woodman had previously provided design drawings and specifications in the past. The City requested Baxter & Woodman to re-evaluate the design and make adjustments as needed. Additional subsurface utility locates, geotechnical exploration, and survey data collection were included for the design.

City of West Palm Beach, FL

Lift Stations No. 47 and 76 Rehabilitation

Project Engineer for the engineering design services for the rehabilitation of Lift Station Nos. 47 and 76. These lift stations have structural and electrical components that are nearing the end of their useful service life. The project also includes engineering design services for the required structural and electrical upgrades at each of the lift stations. Baxter & Woodman previously prepared a condition assessment at both of the lift stations to determine and document the upgrades and improvements required.



Jeffrey S. Weatherford, PE, PTOE

Transportation Engineer - Traffic Studies Lead



Joined Firm in 2022

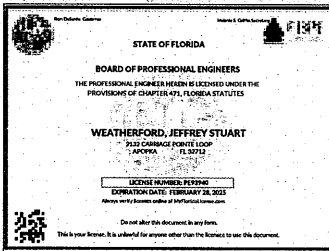
Years of Experience: 29

EDUCATION

B.S., Civil Engineering, Illinois Institute of Technology, Chicago

REGISTRATIONS

Licensed Professional Engineer: Florida, Texas



ASSOCIATIONS

ITS Texas
Institute of Transportation Engineers

TRAINING/CERTIFICATIONS

Professional Traffic Operations Engineer



Jeff has extensive experience in civil engineering and project management in both the private and public sectors. His experience includes transportation planning, roadway and drainage design, traffic engineering, traffic operations, street, and drainage maintenance, construction management, and Intelligent Transportation Systems.

His public sector experience spans three states where he served with the Pima County, AZ Department of Transportation, the City of Lakeland, FL Public Works Department, the City of Apopka, FL Public Services Department, and the City of Houston, TX where he was the Director of Transportation and Drainage Operations.

REPRESENTATIVE PROJECTS

Palm Beach County, FL

Haverhill Road from Hypoluxo Road to Lantana Road

Transportation Design Team Leader for the roadway design services for widening of Haverhill Road from Hypoluxo Road to Lantana Road (approximately 6,200 LF) from a two-lane divided section to four-lane divided. The project site is located in unincorporated Palm Beach County, west of Lake Worth Beach. Work includes right-of-way mapping for Haverhill Road to expand the right-of-way from an existing 80-foot to a proposed 100-foot section, roadway and drainage design, signalization, signing, and pavement marking design and street lighting.

Palm Beach County, FL

Sims Road from Lakes of Delray Boulevard to Atlantic Avenue (SR806)

Transportation Design Team Leader for the design of the roadway extension of Sims Road in western Delray Beach for Palm Beach County Engineering and Roadway Production. The current 80-foot road right-of-way is an unimproved section extending between Lakes of Delray Boulevard and W. Atlantic Avenue, approximately 3,000 LF. The design includes roadway, drainage, sidewalk improvements, and the design of a culvert crossing of the Lake Worth Drainage District (LWDD) Canal L-34.

Palm Beach County, FL

Sherwood Forest Boulevard from Lake Worth Road to North of 10th Avenue North

Transportation Design Team Leader providing roadway widening and resurfacing design services for Sherwood Forest Boulevard, from the north right-of-way of Lake Worth Road to the south right-of-way of 10th Avenue North (approximately 5,500 LF) in Greenacres. The project includes drainage permit modification, utility coordination, and signing and pavement marking.

City of Orlando, FL

Harralson Subdivision Improvement Project

Project Manager responsible for completion of final plans for this neighborhood reconstruction project. The project began as a drainage project, but has transitioned into a neighborhood reconstruction project including replacing the existing drainage system (primarily swales) with a storm drain system, the replacement of sanitary sewer lines and manholes, the replacement of water lines and meters and reconstruction of the roadways with new curb and gutter, asphalt pavement and sidewalks.

City of Orlando, FL

Ivanhoe Boulevard Area 6

Project Engineer responsible for oversight of an update to the drainage study to include the impacts of Hurricane Ian. Additionally responsible for addressing design questions during construction. This project was a conveyance improvement project for an existing residential area on the north side of Lake Ivanhoe that was platted in the 1920's. Project consists of the installation of RCP pipe, the design of a second-generation baffle box, replacement of sanitary manholes and VCP sanitary sewer lines, and the replacement of the cast iron/galvanized water mains. Scope included the reconstruction of approximately 3,900 feet of brick and asphalt pavements along neighborhood streets in the project.

Orange County, FL

Gatlin Avenue/Bumby Avenue Sidewalk Design

Design Team Leader for the design of approximately 5,500 feet of sidewalk and associated drainage structures along neighborhood streets. The project includes survey, geotechnical investigation, environmental investigation, design of sidewalk filling gaps on the north and south side of Gatlin Avenue and new sidewalk along the west side of Bumby Avenue, an underground drainage system, utility coordination, and pavement markings associated with the project.

Orange County, FL

37th Street Sidewalk Design

Design Team Leader for the design of approximately 1,500 feet of sidewalk and associated drainage structures along a neighborhood street. The project includes survey, geotechnical investigation, environmental investigation, design of sidewalk including a transition from the north side of the street to the south side, an underground drainage system, utility coordination, and pavement markings associated with the project.

****While working for others:***

Lakeland, FL*

Downtown Lakeland Traffic Model Development

Project Manager/Engineer responsible the data collection and development of a Synchro model for downtown Lakeland. This model will be used to determine potential impacts of the removal of various traffic signals and the closure of sections of streets to motor vehicles making them bike and pedestrian only streets.



Houston, TX*

Lamar Cycle Track

Project Manager overseeing the design and implementation of Houston's first cycle track through the Downtown connecting two parks.

Houston, TX*

Houston Intelligent Transportation System Project

Project Principal responsible for the concept development, grant application and oversight of the design and construction of this federally funded project. The project consisted of the design, installation, and integration of more than 90 arterial dynamic message signs, 100 arterial CCTV cameras, 150 midblock speed and count stations, and advanced intersection detection and data collection equipment for 450 signalized intersections.

Houston, TX*

Houston Storm High Water Warning System

Project Principal responsible for the concept development, grant application and oversight of the design and construction of this federally funded project. The project consisted of the application of existing traffic signal technology coupled with water sensing equipment to develop a warning system to alert drivers to high water/flooding of intersections or underpasses to prevent fatalities.

NACTO Urban Street Design Guide*

Board member with the National Association of City Transportation Officials (NACTO) and was a member of the steering committee that oversaw the development and publication of the Urban Streets Design Guide.

Lakeland, FL*

Lakeland Parklet Program Development

Project Engineer assigned to assist in the development of standards and regulations for the installation of parklets in the City.

Lakeland, FL *

Intersection Collision Avoidance Project (iCASP)

Project Manager responsible developing the grant agreement with the Florida Department of Transportation and project development. The iCASP system is designed to extend to all the red period for drivers when a conflicting driver is detected and predicted to run the red light. This project will expand the pilot project to a further 20 intersections throughout the City. Additionally, it will add a connected vehicle component. In addition to negotiating the contract with FDOT, Jeff had to select appropriate intersections for the upgrades, determine the equipment needed for installation and the associated costs and develop the concept for the connected vehicle portion for the project.



Zachary E. Williams, PE
Transportation Engineer



Joined Firm in 2022

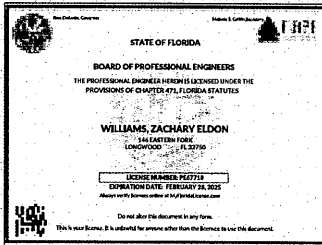
Years of Experience 21

EDUCATION

B.S., Civil Engineering,
University of Florida,
Gainesville, 2003

REGISTRATIONS

Licensed Professional
Engineer: Florida



TRAINING/CERTIFICATION

FDOT Advanced Maintenance
of Traffic

FDOT Specification of Package
Preparation Training for
Consultants



Zack has vast civil engineering experience providing land development and transportation design services to various transportation agencies, school districts, municipalities, and County governments. He brings a broad range of talents, including efficient coordination of multi-discipline teams, collaborative concept and design plan development, and effective post-design and construction support.

REPRESENTATIVE PROJECTS

Orlando, FL

Ivanhoe Area Boulevard Area 6

Project Engineer responsible for roadway designs. This project was a Conveyance improvement project for an existing residential area on the north side of Lake Ivanhoe that was platted in the 1920's. Project consists of the installation of RCP pipe, the design of a second-generation baffle box, replacement of sanitary manholes and VCP sanitary sewer lines, and replacement of the cast iron/galvanized water mains. Scope included reconstruction approximately 3,900 feet of brick and asphalt pavements along neighborhood streets in the project.

Orange County, FL

37th Street Sidewalk Design

Transportation Engineer for the design of approximately 1,500 feet of sidewalk and associated drainage structures along a neighborhood street. The project includes survey, geotechnical investigation, environmental investigation, design of sidewalk including a transition from the north side of the street to the south side, an underground drainage system, utility coordination, and pavement markings associated with the project.

Palm Beach County, FL

Haverhill Road from Hypoluxo Road to Lantana Road

Transportation Design Team Leader for the roadway design services for widening of Haverhill Road from Hypoluxo Road to Lantana Road (approximately 6,200 LF) from a two-lane divided section to four-lane divided. The project site is located in unincorporated Palm Beach County, west of Lake Worth Beach. Work includes right-of-way mapping for Haverhill Road to expand the right-of-way from an existing 80-foot to a proposed 100-foot section, roadway and drainage design, signalization, signing, and pavement marking design and street lighting.

Christina Stoczynski, EI
Transportation Engineer - Bridge Design



Joined Firm in 2022

Years of Experience 10

EDUCATION

B.S., Civil Engineering,
University of Iowa, 2014

REGISTRATIONS

Professional Engineer Intern

TECHNICAL EXPERIENCE

MicroStation
OpenRoads Designer
GEOPAK
Microsoft Office



Christina has experience in the design of roadway improvements, bicycle/multi-use paths, and bridge structures. She has completed Illinois Tollway, IDOT, and Chicago Department of Transportation (CDOT) projects, so she knows each agency's standards. Christina is also familiar with various funding program requirements for municipal, state, and federally funded projects. Christina has recently transferred to Florida to support transportation projects here.

REPRESENTATIVE PROJECTS

Elgin, IL

Bike Path IV Phase II

Project Engineer for the design of the bike path in the Randall Road – Bowes Road to College Green Drive, Bowes Road – Bowes Creek Boulevard to Randall Road, and East Road – Sports Way Drive to IL 31 corridors. Completed plans, specifications, and cost estimate for Bike Path IV Phase II, which consisted of a combinations of road widening (on-road path), new bike path construction (off-road path), and repair of the existing bike path in the three corridors.

Lake County Division of Transportation, IL

Rollins Road Resurfacing and Non-Motorized Travel Improvements

Project Engineer for Phase I/II design to improve pedestrian mobility along Rollins Road from Fairfield Road to Civic Center Way. The project includes alternative analysis to provide sidewalk along both sides of the road, pavement resurfacing, extensive public involvement, traffic signal design, drainage studies, right-of-way plats, environmental investigation, and permitting.

Park Forest, IL

Shabbona Drive Resurfacing Phase II

Provided Phase II engineering services for the improvements of Shabbona Drive. The project included full depth removal of the existing asphalt roadway, profile corrections, and paving HMA leveling binder and surface course to provide a revised cross slope of 2%. To improve safety and provide a traffic calming measure, curb bump outs were installed at eight locations along Shabbona Drive. The project required coordination with Cook County Highway Department, ADA sidewalk ramp replacements, and replacement of driveway aprons.

Brandon L. Buzzell, PE, SE
Transportation Engineer - Bridge & Seawall Structural Design



Joined Firm in 2009

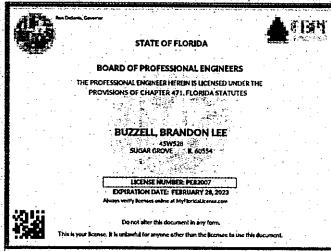
Years of Experience: 26

EDUCATION

B.S., Civil Engineering,
University of Illinois at Urbana-
Champaign, 1998

REGISTRATIONS

Licensed Professional
Engineer: Illinois, Wisconsin,
Florida, and Texas



Brandon has a wealth of experience in the transportation and structural engineering fields and has performed bridge design work for state agencies, counties, municipalities, and agencies. He has served as Project Engineer and Project Manager on projects, and through his detailed and accurate plans, has developed a reputation as a producer of high-quality bridge plans. Brandon is a member of the ACEC-IL IDOT Bridge Committee.

REPRESENTATIVE PROJECTS

Delray Beach, FL

Island Drive Bridge Rehabilitation

Provided construction coordination, inspection, and submittal review for the City's Island Drive Bridge rehabilitation project. The project consisted of seawall replacement on the north-west corner of the bridge, concrete repairs of bridge piles, repair, reinforced, and shot-crete abutments and wingwalls, drainage improvements, and replacement of top slab of the valve vault.

Delray Beach, FL

Atlantic Dunes Seawall Replacement CEI

Provided construction coordination, inspection, and submittal review for the City's Atlantic Dunes Seawall Replacement project. The project consisted of Demolition of Existing Seawall, and Construction of New Seawalls, including Precast Sheet Piles and Cast in Place Concrete Pile Cap.

DeKalb County Highway Department, IL

McNeal Road Bridge over South Branch Kishwaukee River

Structural Manager and Lead Structural Engineer for Phase I and Phase II engineering for the replacement of an existing three-span precast deck beam bridge, funded by the STP-Bridge program. Preliminary design presented a challenge since the existing roadway laid low in the floodplain and overtops frequently. Following normal IDOT bridge design criteria would have resulted in a large raise to the roadway profile, along with excessive right-of-way (ROW) needs and wetland impacts. A waiver of roadway freeboard requirements was also coordinated with District Three staff. The proposed structure is a 217-foot four-span haunched slab bridge, matching the existing road profile to minimize floodplain fill and allow the work to be completed within existing ROW. Sheet

TRAINING

4-Day Training Course for
Fracture Critical Inspection
Techniques for Steel
Bridges - FHWA/NHI, 2011

10-Day Training Course for
Inspection of In-Service
Bridges - FHWA/NHI, 2008

pile retaining walls were utilized around both abutments to protect the roadway embankment, while minimizing the footprint of the improvements.

Delavan, WI

Borg Road Over Swan Creek (P-64-0084), Bridge Rehabilitation Report

Prepared a Bridge Rehabilitation Report for review by the Wisconsin Department of Transportation to evaluate rehabilitation or replacement alternatives for a single-span steel structure that was severely deteriorated. Options explored included deck replacement, superstructure replacement, and full replacement. Report also included cost estimates for four different superstructure types, and ultimately recommended superstructure replacement with prestressed concrete girders, which calculations showed would have the lowest equivalent annual cost.

Elk Grove Village, IL

Clearmont Drive Pedestrian Bridge Replacement

Lead Structural Engineer for Phase II Engineering for the replacement of a pedestrian bridge over Salt Creek. The project included a reevaluation of the Phase I design, redesign of the structure type, environmental permitting, decorative lighting design, preparation of bid documents and agency coordination. The project used ITEP funding and was coordinated with IDOT's Bureau of Local Roads and Streets. The cost is estimated at \$2,400,000 and construction is scheduled for spring 2023.

Glenview, IL

Bridge Rehabilitation

Structural Engineer for repairs on two structures: Glenview Road over North Branch Chicago River, and a pedestrian bridge over East Lake Avenue. The repair of the pedestrian bridge included a partial-depth repair of two deteriorating concrete stairways. A removal detail was developed which allowed a variable-depth removal, along with supplemental reinforcement bars. A groove detail was added to the landings to bring them into ADA compliance. The traffic bridge over the river underwent sidewalk repairs, parapet repairs, expansion joint replacement, and painting of the steel beam ends. Baxter & Woodman also provided construction inspection of the repairs.



Joshua S. Harris, PE, PTOE®
Transportation Engineer - Traffic Engineering



Joined Firm in 2020

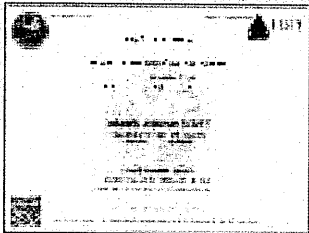
Years of Experience 17

EDUCATION

B.S., Mechanical Engineering,
University of Florida, 1986

REGISTRATIONS

Licensed Professional
Engineer: Illinois and Florida



CERTIFICATIONS

Professional Traffic Operations
Engineer®, certified by the
Institute of Transportation
Engineers, 2014

IDOT Documentation of
Contract Quantities #21-18849



Josh is a Certified Professional Traffic Operations Engineer® and is a Project Manager for a variety of municipal, county, and large agency transportation projects. His design and construction engineering background includes roadway reconstruction, roundabouts, streetscape, intersection improvements, and roadway maintenance.

REPRESENTATIVE PROJECTS

Boynton Beach, FL

High Ridge Road Concept Study

Lead Project Engineer for preparation of conceptual plans, a conceptual cost estimate, and grant application assistance for an application to the Palm Beach Transportation Planning Agency (TPA) for High Ridge Road from NW Commerce Park Drive to Miner Road. Improvements included milling and resurfacing the pavement and maintaining the existing four lanes and landscaped median. The City also wanted to explore a possible four-lane section along High Ridge Road while maintaining left turn channelization at the intersections.

Wood Dale, IL

FY21-FY22 Road Projects

Project Engineer for the development of plans, specifications, and cost estimate for the FY 2021/2022 Road Projects. Annually, the City of Wood Dale, through the Capital Improvements Plan, selects streets throughout town that need resurfacing per the Street Sufficiency Study. Work for the project included roadway reconstruction, asphalt surface removal and replacement, replacement of deteriorated sections of curb and gutter, and replacement of non-ADA compliant sidewalk ramps.

La Grange, IL

2021 Street Improvements

Project Engineer for the development of plans, specifications, and cost estimate for the FY 2021 Street Improvements project. The FY 2021 street improvements included curb repairs, sidewalk ramp replacement in accordance with ADA requirements, base repairs, partial and full depth HMA pavement milling, HMA binder and surface course placement, and storm sewer repairs for West Elm Avenue, West Maple Avenue, and West Goodman Avenue from Gilbert Avenue to South Brainard Avenue. The design used various techniques to minimize construction cost and maximize roadway improvements for the three streets.

Cindy M. Young, PE Stormwater Engineer

Joined Firm in 2019

Years of Experience 28

EDUCATION

M.S., Water Resource
Engineering, University of
Central Florida, 1998

B.S., Environmental
Engineering, University of
Central Florida, 1996

REGISTRATIONS

Licensed Professional
Engineer: Florida

CONTINUING EDUCATION

Federal Highway
Administration, Stream
Stability and Scour, Highway
Bridges Seminar

Streamline Technologies, ICPR
Training Class)

Cindy has vast experience performing drainage engineering for a wide range of projects, including a major drainage model for Lakeland Linder Regional Airport. She has designed water and reuse distribution systems, sewer collection systems, and lift station design. She is proficient in the use of many software packages, such as CADD and geometry design packages, ICPR storm modeling, ASAD storm sewer design, Arc View/Avenue, Modret groundwater modeling, and Microsoft Office. She has attended the Highway Bridges seminar, and attended the ICPR training class by Streamline Technologies.

REPRESENTATIVE PROJECTS

Orlando, FL

Little Wekiva River - Preliminary Engineering Evaluation

Project Engineer on a project that performed evaluation of retrofitting areas on Lake Lawne Shores, Center of Commerce, and Lake Orlando Golf Course, with the emphasis on reducing phosphorus and nitrogen annual loading rates to the Little Wekiva River. An innovative design was provided on the Center of Commerce site that would provide a larger reduction in loading rates to the overall basin at a reduced cost per kilogram compared to the two smaller sites on Lake Lawne and Lake Orlando. The design included a drainage basin study, preliminary design of a stormwater system for the three sites, and meetings with City and SJRWMD staff.

Orlando, FL

Lake Olive to Lake Lawsona Drainage Retrofit

Drainage Engineer for a conveyance improvement project to hydraulically connect Lake Olive to Lake Lawsona as part of the SE Lakes Improvements project. Project consisted of approximately 470 feet of 30-inch and 36-inch RCP pipe along Hyer Avenue, and the design of an adjustable control structure along Hyer Avenue. Scope included reconstruction of Hyer Avenue along the project limits, preparation of construction plans, utility coordination, MOT plans, and permitting through SJRWMD.

Polk County, FL

Lakeland Linder Regional Airport - FBO Site Design

Project Engineer for drainage and utility design, and site plans. Prepared site plans for the new FBO facility under a very tight deadline, including a new design to solve flooding of the existing site. Permitting with SWFWMD, City of Lakeland Water and Sewer Utilities.



Orange County, FL

Khayyam Canal Study and Retrofit

Project Engineer on a project that performed bank erosion study for Khayyam Canal (Section B), which experienced severe erosion. The canal drains a large basin from S.R. 434 and several basins within the University of Central Florida. Scope included a drainage study, developing three alternatives, preparation of construction plans based on the selected alternative, and utility coordination. Permitting with SJRWMD and FDOT (Drainage Connection).

Orlando, FL

Little Wekiva River - Preliminary Engineering Evaluation

Project Engineer on a project that performed evaluation of retrofitting areas on Lake Lawne Shores, Center of Commerce, and Lake Orlando Golf Course, with the emphasis on reducing phosphorus and nitrogen annual loading rates to the Little Wekiva River. An innovative design was provided on the Center of Commerce site that would provide a larger reduction in loading rates to the overall basin at a reduced cost per kilogram compared to the two smaller sites on Lake Lawne and Lake Orlando. The design included a drainage basin study, preliminary design of a stormwater system for the three sites, and meetings with City and SJRWMD staff.

Orange County Public Works, FL

Anderson Road Outfall

Drainage Engineer for a retrofit project that included the design of a new wet detention pond to improve water quality from an existing urban basin that was discharging untreated stormwater. The project included a drainage basin study, multiple alternatives analysis, several public information meetings, and was permitted through the SJRWMD.

Orange County, FL

County Road 545 Drainage Assessment and Recommendation

Project Engineer for a stormwater design to reduce flooding at a long low point of CR 545. The study needed to be performed quickly since CR 545 is a major artery of west Orange County. The design included a drainage basin study using the Cypress Creek ICPR basin study to recommend alternatives to reduce the flooding. The simplest, fastest, and most cost-efficient remedy was to raise the low point by 16 inches. The remedy did not require permitting with SJRWMD and was easily constructed by County maintenance crews.



Spencer Grossinger, EI
Drainage Engineer



Joined Firm in 2023

Years of Experience: 5

EDUCATION

B.S., Civil Engineering, Florida
Atlantic University, 2018

REGISTRATIONS

Engineering Intern Certified -
License Number 110022424



Spencer has recently joined our team with experience in drafting and designing water, sewer, drainage, signage and pavement marking, and photometric plans for single family homes, townhomes, and residential developments.

REPRESENTATIVE PROJECTS

Lantana, FL

Water, Wastewater & Stormwater Master Plan

Project Engineer assisting with comprehensive master plan for the City's potable water distribution system, wastewater collection and transmission system, roadway, seawalls, parks and recreation facilities and stormwater system master plan including recommendations for Capital Improvement Projects (CIP).

Delray Beach, FL

Northwest Neighborhood Improvements

Project Engineer providing design engineering for multiple roadway and alleyway improvements in the NW Neighborhood area. The limits of the project are from I-95 to Swinton Avenue and from Atlantic Avenue to Lake Ida Road.

West Palm Beach, FL

Resia Pine Ridge

With the guidance of Professional Engineer, drafted and designed water, sewer, drainage, signage & pavement marking, and photometric plans for 288 unit (multifamily), 11.46-acre residential development in West Palm Beach, Florida.

Delray Beach, FL

Aura Delray Beach

With the guidance of Professional Engineer, drafted and designed water, sewer, drainage, signage & pavement marking, and photometric plans for 292 unit (apartments) residential development in Delray Beach, Florida, at the intersection of Atlantic Avenue and Congress Avenue.

Miami, FL

Verdana Landings

With the guidance of Professional Engineer, drafted and designed water, sewer, drainage, signage & pavement marking, and photometric plans for 121 unit (single family homes), 28.07-acre residential development in Miami, Florida.

Kathryna Clarke, EI
Drainage Engineer



Joined Firm in 2021

Years of Experience 9

EDUCATION

B.S., Civil Engineering,
Northeastern University, 2015

CERTIFICATIONS

Engineer Intern
Erosion Control Inspector



Kathryna is experienced in civil engineering providing design support for municipal water infrastructure projects, as well as for commercial, industrial, and residential land development projects for several Florida municipalities and national clientele. She brings a broad range of talents including stormwater modeling, erosion control inspection, CADD, and construction administration support.

REPRESENTATIVE PROJECTS

City of Cocoa, FL

Grissom Parkway Cement Plant

Kathryna provided engineering services for the proposed Grissom Parkway Cement Plant which consisted of preparing, certifying and processing permit applications for the City of Cocoa.

Orange County, FL

Jones Avenue BMP Design

Kathryna provided final design plans and stormwater modeling support for the Jones Avenue Pond BMP Design Project, which will include an alum injection system.

Integra Land Company, FL

Boggy Creek Road Apartments

Kathryna provided design and construction documentation for the proposed Boggy Creek Road Apartments located east of Boggy Creek Road and between New Hope Road and Beth Road.

Palm Beach County, FL

Haverhill Road from Hypoluxo Road to Lantana Road

Project Engineer responsible for drainage, modeling, and design for the roadway design services for widening of Haverhill Road from Hypoluxo Road to Lantana Road (approximately 6,200 LF) from a two-lane divided section to four-lane divided. The project site is located in unincorporated Palm Beach County, west of Lake Worth Beach. Work includes right-of-way mapping for Haverhill Road to expand the right-of-way from an existing 80-foot to a proposed 100-foot section, roadway and drainage design, signalization, signing, and pavement marking design and street lighting.

Thu Nguyen, EI
Drainage Engineer



Joined Firm in 2023

Years of Experience 2

EDUCATION

B.S., Civil Engineering, Florida Atlantic University, 2022

CERTIFICATIONS

Engineer Intern



Thu has recently joined Baxter & Woodman after receiving her Civil Engineering degree from Florida Atlantic University. She regularly assists Project Managers on a wide variety of infrastructure improvement projects including wastewater needs assessments, neighborhood drainage improvements, and drainage studies.

REPRESENTATIVE PROJECTS

Delray Beach, FL

Northwest Neighborhood Improvements

Project Engineer providing design engineering for multiple roadway and alleyway improvements in the NW Neighborhood area. The limits of the project are from I-95 to Swinton Avenue and from Atlantic Avenue to Lake Ida Road.

Lantana, FL

Water, Wastewater & Stormwater Master Plan

Project Engineer assisting with comprehensive master plan for the City's potable water distribution system, wastewater collection and transmission system, roadway, seawalls, parks and recreation facilities and stormwater system master plan including recommendations for Capital Improvement Projects (CIP).

Gulf Stream, FL

General Civil Engineering Services

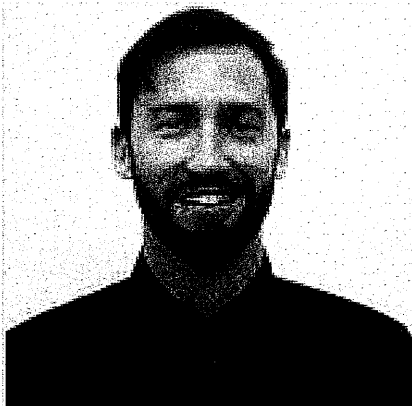
Project Engineer providing design engineering services for a wide variety of projects under a general engineering services contract. Projects include rehabilitation and maintenance improvements of existing storm drainage lines, new storm drain lines, renovation to existing storm sewer pumping stations, design of new storm sewer pumping stations, replacement of existing water mains, and roadway and drainage design.

Palm Beach County, FL

Sims Road from Lakes of Delray Boulevard to Atlantic Avenue

Project Engineer assisting with design services for a roadway extension and culverting design of the LWDD Canal L-34 crossing for Sims Road, extending from Lakes of Delray Boulevard to Atlantic Avenue. The unimproved road section is approximately 3,000-LF and is located in unincorporated Palm Beach County, west of Delray Beach, Florida.

Arthur "Jake" Hurley, PE Water/Wastewater Engineer



Joined Firm in 2021

Years of Experience: 9

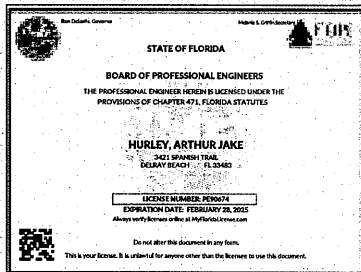
EDUCATION

B.S., Civil Engineering,
University of Central Florida,
2016

International Engineering
Minor, University of Central
Florida, 2016

REGISTRATIONS

Licensed Professional
Engineer: Florida



BAXTER & WOODMAN
Consulting Engineers

Jake started his career as a field/project engineer working for general contractor Wharton Smith, Inc. Then at the City of Boynton Beach Utilities Department, he functioned as a project manager and engineer for multiple improvement projects. His experience includes project management, engineering design, permitting, bidding services and construction services.

REPRESENTATIVE PROJECTS

Loxahatchee River Environmental Control District, FL

LRECD IQ511 Pump Station Piping Improvements

Construction Manager for the installation of approximately 75 LF of 36-inch DIP reclaim water main, 36" valve, sluice gate, concrete influent bay structure, structural connection to existing IQ-511 wet well, roadway, and electrical site improvements. Duties include, coordinating inspectors, acting as the EOR's representative, design review, overall construction administration, review of shop drawings, review of pay applications, administering pre-construction and progress meetings, construction schedule review, preparing and negotiating change orders, responding to contractor's RFI's and clarifications, processing final project certifications, and verifying contractor's conformance to construction documents.

West Palm Beach, FL

Hydraulic Modeling Support

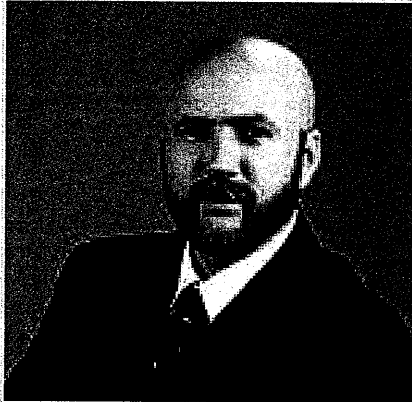
Engineering professional responsible for the evaluation of emerging developments within the City of West Palm Beach, focusing on their potential impacts on the potable water distribution system and wastewater collection and transmission network. Core responsibilities encompass hydraulic modeling, pressure assessments, conducting comprehensive assessments of water, wastewater, and lift station capacities, formulating recommendations for infrastructure replacement, and the preparation of capacity evaluation reports.

Boynton Beach, FL

Lakeside Gardens Drainage Improvements

Project Engineer for drainage improvements to several streets in the Lakeside Gardens Community. Previously engineered by others, the major work items for the project included the design of approximately 1,600 linear feet (LF) of drainage pipe, 25 drainage structures, a new gravity outfall, a discharge pipe for a portable emergency stormwater pump, and 1,130 LF of water main replacement. Ancillary items associated with the construction of the stormwater management system include sanitary and water service line adjustments, driveway replacements, curbing, roadway widening and restoration, and erosion control measures.

Kyle Scott, PE
Water/Wastewater Engineer



Joined Firm in 2014

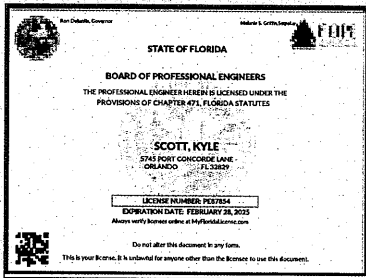
Years of Experience: 10

EDUCATION

B.S., Environmental
Engineering, University of
Central Florida, 2013

REGISTRATIONS

Licensed Professional
Engineer: Florida



Kyle's has 10 years of engineering design and construction experience include hydraulic modeling, potable water systems, reclaimed water systems, wastewater collection and transmission systems, master planning, and construction observation.

REPRESENTATIVE PROJECTS

Boynton Beach, FL

Reclaimed Water Planning Assistance

Engineer responsible for evaluating the City of Boynton Beach's compliance with FDEP Ocean Outfall Bill. Responsibilities include evaluating historical wastewater treatment plant data, reclaimed water data, wastewater and reclaimed water flow projections, develop maps with existing and potential reclaimed water users, infrastructure CIP recommendations, preparation of a technical memorandum, correspondence with FDEP, and acted as the City representative for FDEP for compliance.

Wilton Manors, FL

Integrated Water/Wastewater/Stormwater Master Plan

Engineer for the preparation of an Integrated Master Plan to inventory, assess, and prepare a Capital Improvement Plan (CIP) for the water distribution system, wastewater collection system, and stormwater system. The CIP was based upon information associated with service area demographics, water resources, water demands, wastewater flows, hydraulic simulations, and City-recorded accounts of significant issues. The goals and objectives of the Master Plan include:

- Provide and maintain potable water, wastewater, and stormwater services in an efficient and cost-effective manner that will ensure public health, safety, and quality of life while protecting the environment.
- Maintain the minimum levels of service standards for services within the City limits.
- Continue to assess the service lines and correct deficiencies in a timely manner.
- Coordinate with the City of Fort Lauderdale through the Bulk User Agreement (potable water), Large User Agreement (wastewater), and the Municipal Separate Storm Sewer System Permit (MS4).
- Continue to operate the services as enterprise funds.

Alexis Shotton, PE

Water/Wastewater Engineer/Utility Coordination/Grants Assistance



Joined Firm in 2017

Years of Experience: 7

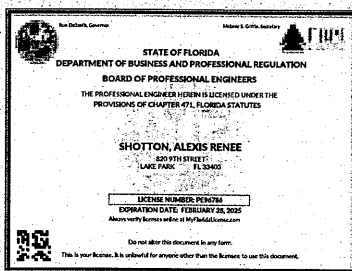
EDUCATION

B.S., Civil Engineering
University of Illinois at Urbana-
Champaign, 2017

A.S., Engineering Science,
Kishwaukee College, 2014

REGISTRATIONS

Licensed Professional
Engineer: Florida



Alexis joined Baxter & Woodman after receiving her Bachelors of Science degree in Civil Engineering from the University of Illinois at Urbana-Champaign. Her studies were concentrated in environmental engineering, water resources and water quality, hydraulic analysis and design, and fluid dynamics. She routinely assists senior engineers with the design of water main and sewer improvements. Since joining Baxter & Woodman, Alexis has excelled in the fields of computerized maintenance and management systems, underground infrastructure, and water and sewer rate studies.

REPRESENTATIVE PROJECTS

Wilton Manors, FL

NW 29th Street and NW 30th Court Potable Water Improvements
Project Engineer for design of potable water main consisting of replacement of approximately 4,000 lineal feet of 6-inch water main using pipe bursting methods and reconnecting water service lines to the new water main. The project requires coordination with FDOT and Broward County.

Wilton Manors, FL

SLR Vulnerability Assessment

Project Engineer assisting the City with preparation of a Sea Level Rise Vulnerability Assessment on the City's infrastructure. This includes performing an exposure analysis to identify the depths of flooding caused by SLR, storm surge, rainfall events, and/or compounded flood scenarios, and performing a sensitivity analysis to determine the impact of flooding on the City's critical assets. This project also includes supporting the City with steering committees and public outreach meetings.

Lake Park, FL

Southern Outfall Improvements

Project Engineer for replacement of 72-inch storm sewer pipe with two 60-inch storm sewer pipes in order to increase stormwater flow capacity to improve flood protection and address sea level rise. This project included permitting with Florida Department of Transportation and South Florida Water Management District.

West Palm Beach, FL

Lift Station 127 Rehabilitation

Project Engineer for the engineering design services for the rehabilitation of Lift Station No. 127 to a submersible-type lift station. The detailed design includes the necessary site-civil, mechanical, and electrical improvements required to rehabilitate the existing lift station and wet well.

Lake Park, FL

Grant Assistance

Project Engineer assisting the Town with preparation of an Environmental Assessment Application, submitted to Florida Commerce. The project includes coordination and compliance with various agencies including Historic Preservation, Clearinghouse, FEMA, Tribal Lands, Coastal Zone Management Act, Coastal Barrier Resources Act, and others in accordance with the grant requirements.

Gulf Stream, FL

Grant Funding for Vulnerability Assessment

Project Engineer assisting the town with preparation of a grant application for the Florida Department of Environmental Protection (FDEP) Resilient Florida Grant Program. The project included preparation and submittal of an application for funding to perform a Vulnerability Assessment.

Wilton Manors, FL

SLR Vulnerability Assessment

Project Engineer assisting the City with preparation of a Sea Level Rise Vulnerability Assessment on the City's infrastructure. The project is funded by the Resilient Florida Grant Program, and the assessment was done in accordance with grant requirements. This includes performing an exposure analysis to identify the depths of flooding caused by SLR, storm surge, rainfall events, and/or compounded flood scenarios, and performing a sensitivity analysis to determine the impact of flooding on the City's critical assets. This project also includes supporting the City with steering committees and public outreach meetings.



Emily Altman, EI
Water/Wastewater Engineer



Joined Firm in 2023
Years of Experience: 2

EDUCATION

B.S., Environmental
Engineering, Florida Atlantic
University, 2022

CERTIFICATIONS

Engineer Intern



Emily has recently joined Baxter & Woodman after receiving her Environmental Engineering degree from Florida Atlantic University. She regularly assists Project Managers on a wide variety of infrastructure improvement projects, including lift station rehabilitations, wastewater needs assessments, and drainage studies.

REPRESENTATIVE PROJECTS

West Palm Beach, FL

Lift Stations No. 26, 45 and 51 Rehabilitation

Project Engineer providing engineering design services for the rehabilitation of Lift Stations 26, 45, and 51 in the City of West Palm Beach. The project includes converting the existing “can-type” station to submersible stations, installing two new 20 Hp submersible pumps with associated rails and hatches, providing structural modifications of the existing wetwell to convert it into a submersible wetwell, demolishing the concrete entrance tube and extend the concrete walls to grade, providing new concrete top slab with hatches, replacing the existing control panel and RTU in accordance with City standards, replacing the existing 30 KW with a new 30 KW standby generator with base mounted tank (LS 51), replacing approximately 190 LF of 12-inch gravity sewer line, 43 LF of 10-inch gravity sewer line, and approximately 75 LF of 10-inch forcemain in the discharge line.

Delray Beach, FL

Northwest Neighborhood Improvements

Project Engineer providing design engineering for multiple roadway and alleyway improvements in the NW Neighborhood area. The limits of the project are from I-95 to Swinton Avenue and from Atlantic Avenue to Lake Ida Road.

Richard M. Chipman, CGC
Construction Manager



Joined Firm in 2013

Years of Experience 41

EDUCATION

Construction Law, Auburn University

Construction Materials and Methods, Palm Beach Junior College

Licensing, Florida School of Construction

Estimating, Palm Beach Junior College

Accounting, University of Buffalo

Quantitative Management/ Construction Technology, Erie Community College



Richard has extensive experience in several phases of municipal construction, administration of complex construction projects, and supervisory management in the fields of building construction, site development, and water and wastewater treatment. His management and technical skill offers a wide range of tangible experience.

REPRESENTATIVE PROJECTS

Delray Beach, FL

NE 2nd Avenue/Seacrest Phase II Beautification

Construction Manager for Phase II of the Seacrest Beautification Project. The NE 2nd Avenue/Seacrest Beautification projects are both City funded and federally funded through the Florida Department of Transportation (FDOT) Local Agency Program. The project evolved into four phases. The scope of this project includes reduction in travel lane width, 6-foot wide concrete sidewalks, dedicated bike lanes, crosswalks, pedestrian crosswalk improvements, local agency program (LAP) administration, and LAP environmental review. Baxter & Woodman provided construction administration, resident project representative services, public outreach, and FDOT LAP Coordination for the project.

Lake Worth Beach, FL

5th Avenue South Bikeway and Pedestrian Trail Project

Construction Manager for converting an existing unimproved right-of-way to a complete improved bikeway and pedestrian trail with new sidewalks, landscaping, irrigation, stormwater facilities, traffic calming, signage, and striping. The project also had funding provided by the Florida Department of Transportation (FDOT), and the Construction Manager needed to ensure compliance with all LAP requirements and documentation to ensure that the City obtained the full project reimbursement from FDOT.

Delray Beach, FL

SW 2nd Street Resurfacing (I-95 to SW 2nd Avenue)

Construction Manager for the construction of roadway improvements consisting of milling and resurfacing with asphaltic overlay, including leveling course and pavement markings.

Andrew A. Capellini
Construction Manager



Joined Firm in 2021

Years of Experience 12

EDUCATION

B.S., Construction
Management, Florida
International University, 2021

AA, Broward College, FL, 2018

TRAINING/CERTIFICATION

Certified in OSHA Hazard
Recognition

FDOT Concrete Field Inspector
Specifications

ACI Concrete Field-Testing
Technician - Grade I

Concrete Field Technician
Level 1

Troxler Electronic Laboratories,
Inc. - Compaction & Density
Testing

Pile Driving Inspection

BAXTER & WOODMAN
Consulting Engineers

Andrew is experienced in Construction Project Management, Construction Administration, Building Construction Plans Interpretation, Facilities Maintenance, Remodeling, Electrical Experience Construction Documents, and Contracts. Also skilled in Microsoft Office, MS Project, MS Excel, and AutoCAD..

REPRESENTATIVE PROJECTS

City of Delray Beach

Lowson Boulevard CEI Services

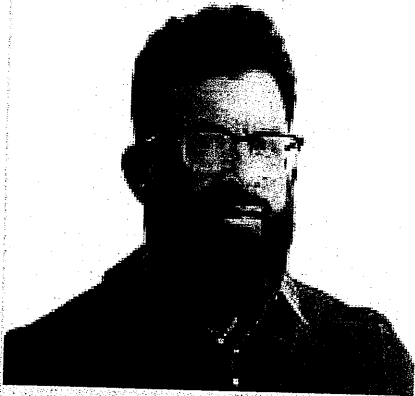
Construction Manager for Construction Engineering and Inspection (CEI) services for Lowson Boulevard from Dover Road to SE 5th Avenue (US L/Federal Highway). The project includes generally the mill and overlay of single-lane and two-lane undivided roadway section, segments with the addition of curbing, traffic signage, pavement markings, a pedestrian bridge on the north and the south sides of Lowson Boulevard over the LWDD E-4 Canal, signalization improvements at various intersections, and drainage structure and swale improvements. The Lowson Boulevard project is funded by both the City and the Florida Department of Transportation (FDOT) under the Local Agency Program. In addition to CEI services, Baxter & Woodman provided Public Involvement services, agency and utility coordination, and LAP Administration services during the 19.5-month construction period.

City of Delray Beach

CEI Services for Osceola Park Phase 2 Neighborhood Improvements

Construction Manager for Construction Engineering & Inspection (CEI) services for the construction of Osceola Park Neighborhood Improvements - Phase 2. This phase of construction work covered under this project comprises: significant potable water main improvements, drainage improvements, sanitary sewer improvements, roadway reconstruction, roadway mill and overlay, alleyway improvements, signage and pavement marking improvements, curbing, sidewalk, and driveway improvements, decorative LED lighting improvements (installed by FP&L), and landscaping & irrigation improvements for the City of Delray Beach. Construction also includes clearing and grubbing, dewatering, MOT, complying with permit conditions, ADA-compliance, swale development, flushing, testing & disinfection and all restoration required. The work is located in the City of Delray Beach and Florida Department of Transportation (FDOT) rights-of-way.

Anthony Monroe
Construction Inspector



Joined Firm in 2022

Years of Experience: 24

CERTIFICATIONS

Asphalt Paving Level 1



Anthony is a skilled construction inspector offering 23 years of experience serving as a superintendent for contractors in Florida. He is consistently praised for his effective coordination between clients and contractors. Anthony's main priority while overseeing projects are maintaining clients' budgets and schedules.

REPRESENTATIVE PROJECTS

Town of Lantana, FL

East Lantana Road Improvements

Construction Inspector for roadway improvements for E. Lantana Road from Dixie Highway to the Intracoastal Waterway. The Town identified potential roadway settling along the route. Failure in two stormwater pipes that outfall at the east end of E. Lantana Road is a possible cause for the roadway settling.

City of Delray Beach, FL

Lowson Boulevard LAP Improvements

Construction Inspector for the City's Lowson Boulevard Roadway Improvements. The project is funded by both the City and the Florida Department of Transportation under the Local Agency Program (LAP). The 2.4-mile project extends from Dover Road to US1/Federal Highway. The project includes the mill and overlay of a two-lane undivided roadway section, the addition of curbing, signage, pavement markings, signalization, drainage, and swale improvements. Also included is the construction of two pedestrian bridges spanning the Lake Worth Drainage District E-4 Canal. Baxter & Woodman is also providing public involvement services, agency and utility coordination, and LAP Administration services during the 19.5-month construction timeframe.

City of Pompano Beach, FL

Pompano Beach Palm Club Water Main Improvements

Provided engineering assistance with the City's Palm Club Water Main Improvements. The project included a connection of the terminal end of the 6-inch water main on Sunset Lane to the 4-inch water main along Palm Club Drive within the Palm Club development, eliminating the dead end water main on Sunset Lane. The new water main is approximately 115-linear-feet long and 6-inch in diameter, with a fire hydrant located adjacent to Palm Club Drive.

Brad R. Stoecker
Construction Inspector/Drone Pilot



Joined Firm in 1998

Years of Experience 34

**FEDERAL AVIATION
ADMINISTRATION:**

Remote Pilot Certification,
#4366310, February 2020

Brad has strong background in construction survey and layout, inspection, and documentation. His eight years of experience with the Illinois Department of Transportation gives him in-depth knowledge of IDOT standards and procedures. His interpersonal skills were developed while supervising IDOT projects, where he coordinated work between the engineer and contractor and kept the general public informed of project status. Since relocating to Florida in 2016, Brad has been involved in various project site inspections and construction progress documentation for many water, sewer, paving and drainage projects. Brad also provides daily reporting in the format of photography, video and visual arts which are uploaded to various social media platforms for public notification, design and construction status updates.

REPRESENTATIVE PROJECTS

Lake Worth, FL

5th Avenue South Bikeway and Pedestrian Trail

Construction Technician for converting an existing unimproved right-of-way to a complete improved bikeway and pedestrian train with new sidewalks, landscaping, irrigation, stormwater facilities, traffic calming, and signage and striping. The project also had funding provided by the Florida Department of Transportation (FDOT). The Construction Manager needed to ensure compliance with all LAP requirements and documentation to ensure that the City obtained the full project reimbursement from FDOT.

Delray Beach, FL

SW 4th Street/SW6th Street/SW7th Street Improvements

Brad provided Construction Inspection for the City's SW 4th Street/SW6th Street/SW7th Street Improvements. The project consisted of improvements to roadways, paved alleys, sidewalks, swales, stormwater system, sanitary sewer system, and street lighting.

Delray Beach, FL

Beach Master Plan

Construction Administration and Inspection for Atlantic Avenue and SR A1A Intersection & Pedestrian Crossing Improvements, ADA Crossings, Dune Deterrent Fencing, Beach Walkway Improvements, Turtle Friendly Beach Lighting.



Michelle Zhao, EI
Utility Coordination



Joined Firm in 2022

Years of Experience 2

EDUCATION

B.S., Civil Engineering,
University of Central Florida,
2022

REGISTRATIONS

Engineer Intern



Michelle is a graduate of the University of Central Florida and has recently joined our team with experience in Open Roads Designer and engineering designs for roadway projects. Her additional experiences include assisting senior engineers in water, stormwater, and wastewater system improvement projects.

REPRESENTATIVE PROJECTS

Palm Beach County, FL

Haverhill Road from Hypoluxo Road to Lantana Road

Project Engineer for the roadway design services for widening of Haverhill Road from Hypoluxo Road to Lantana Road (approximately 6,200 LF) from a two-lane divided section to four-lane divided. The project site is located in unincorporated Palm Beach County, west of Lake Worth Beach. Work includes right-of-way mapping for Haverhill Road to expand the right-of-way from an existing 80-foot to a proposed 100-foot section, roadway and drainage design, signalization, signing, and pavement marking design and street lighting.

Orange County, FL

37th Street Sidewalk Design

Project Engineer for the design of approximately 1,500 feet of sidewalk and associated drainage structures along a neighborhood street. The project includes survey, geotechnical investigation, environmental investigation, design of sidewalk including a transition from the north side of the street to the south side, an underground drainage system, utility coordination, and pavement markings associated with the project.

Boynton Beach, FL

Reclaimed Water Planning Assistance

Engineering services for the review of Boynton's Reclaimed Water System Expansion Activities. Gathered land data for existing reclaimed water consumers and prepared summary table of data calculations for anticipated generation rates.

Lantana, FL

Comprehensive Water, Wastewater, Roadway, and Stormwater Master Plan

Engineering services for Lantana's potable water distribution system and wastewater collection and transmission system analyses. Reviewed and organized historical lift station/wastewater flow, meter, and runtime data in preparation for performing an infiltration and inflow analysis. Produced data visualization graph for rainfall intensity comparison between Lantana and West Palm Beach.

Lori J. Polantz
Public Relations



Joined Firm in 1995

Years of Experience 34

EDUCATION

B.A., Business Administration
St. Norbert College, 1990

**PROJECT WEBSITES
DESIGNED/MANAGED**

randallroad.info

osceolaparkproject.com

lowsonimprovements.com

improvegilmermidlothian.com

lbtseimar.com

ASSOCIATIONS

Crystal Lake Chamber
Foundation Board of Directors:
Board Member | 2022 - 2023



Lori is often called upon by project managers to assist with public relations efforts for client projects. Her communication expertise is utilized to plan and develop materials used in public information meetings, as well as displays, presentations, surveys, mailings and online tools geared towards stakeholder and resident issues. She has designed and maintained numerous project websites and stays current with the latest technology and online communication tools including Twitter, Facebook and blogs. Lori is adept at tailoring a project communication program to meet the needs and budget of a client.

Lori has developed and implemented integrated public information campaigns for roadway construction and high-profile projects to increase awareness, promote public understanding, and enhance communication during construction activities.

REPRESENTATIVE PROJECTS

Town of Lauderdale by the Sea, FL
El Mar Design

Public Relations Specialist for El Mar Drive Improvement Project. Community outreach efforts included providing support for virtual public information meetings. Managed development and maintenance of the project website. Designed multiple project surveys to encourage public participation input and buy-in into the final design concept selected.

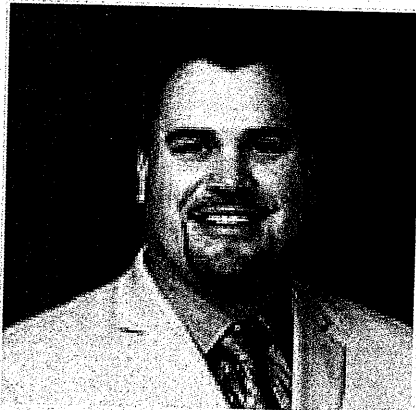
Delray Beach, FL
Osceola Neighborhood Improvements

Public Relations Specialist for design and construction of improvements to the Osceola neighborhood public infrastructure. Provides support for public information meetings and development and maintenance of the project website. Provides regular project updates to residents through social media.

Delray Beach, Florida
Beach Master Plan

Public Relations Specialist for the construction of the Beach Master Plan Improvements. The project included installation of beach pedestrian turtle-friendly lighting for the beach promenade and intersection improvements focusing on pedestrian roadway crossings along S.R. A.1.A. Developed and maintained the project website and social media pages. Provided regular project updates to residents.

Andrew E. Zaletel, GISP
GIS Analyst



Joined Firm in 2005

Years of Experience 25

EDUCATION

M.S., Resource Analysis and GIS, Saint Mary's University of Minnesota, 2000

B.S., Biology (Ecology), Winona State University, 1999

CERTIFICATIONS

Geographic Information Systems Professional (GISP), GIS Certification Institute

RELEVANT COURSEWORK

"GIS Theory and Application"

"GIS Analysis"

"Advanced GIS"

"Advanced Arcview"

"Visual Basic Programming"

"Avenue Programming"

"Satellite Imagery/Photo Interpretation"

BAXTER & WOODMAN

Andy has served as Project Manager for numerous custom application development, utility mapping, data collection and basemap development projects. He has been instrumental in assisting communities with data analysis and conversion, custom application development, web-based GIS solutions, infrastructure system surveys, and educational workshop presentations and trainings.

REPRESENTATIVE PROJECTS

Lantana, FL

GIS Data Conversion

Conversion of the Town's existing water distribution, storm water, and sewer system AutoCAD data layers into Esri Geodatabase format. The data was then networked in Esri and corresponding attribution was populated for the relevant feature classes for each utility system. The Town was delivered datasets in Esri Geodatabase format with the associated map documents.

Lauderdale-By-The-Sea, FL

GIS Development and Implementation

Conversion and development of the Town's GIS basemap and utility data. Established and implemented Esri's ArcGIS Online (AGOL) environment. The data was then configured and loaded into the Town's organizational account with numerous AGOL applications developed for both internal and public consumption.

GIS Software Proficiency

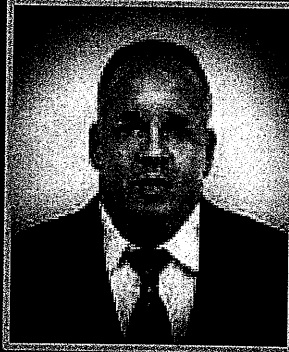
Andy is skilled in the following software programs:

- ArcGIS Software Suite
- MS Access and SQL
- Trimble Pathfinder Office
- Trimble TerraSync Professional
- Hansen Information Technologies
- Numerous ArcGIS Extensions
- ArcGIS Server
- ArcPAD
- ArcIMS 9.x
- Aerial Photography Analysis and Interpolation

Resumes for Subconsultants
Dennis J. Leavy & Associates, Inc.

David A. Bower, PSM

President / Senior Project Manager



Mr. Bower possesses more than 35 years of land surveying and project management experience within the South Florida area. For the past 23 years, he has worked with the firm Dennis J. Leavy & Associates delivering the highest standards of quality and service to his clients.

His professional experience encompasses all aspects of land surveying. This includes initial project research and document review, calculations for infrastructure layout, field crew set-up and supervision, management and coordination of survey data, and preparation of survey drawings.

Mr. Bower's open communication with the Client and his commitment to the Project ensures that each project will be delivered with the highest quality of services on time and within budget.

SELECTED PROJECTS

Mr. Bower served as Senior Project Manager under Dennis J. Leavy & Associates for the following projects:

Note: Completed projects were delivered on time and within budget. Projects were performed in accordance with Municipality Requirements and the Florida Standards of Practice for Surveyors & Mappers.

Palm Beach County – CANYON BRANCH LIBRARY – Palm Beach County, Florida
 Public Library Facility Improvements.
 Services provided by the firm: Review Commitments; Prepare Boundary Survey with topography; Prepare Control Survey.

Palm Beach County – PALM TRAN SOUTH COUNTY EXPANSION – City of Delray Beach, Florida
 Public Transportation Facility Improvements.
 Services provided by the firm: Prepare Boundary Surveys with topography; Review Commitments; Prepare Sketch and Descriptions; Platting.

Town of Loxahatchee Groves – FIRE STATION NO. 21 RENOVATIONS – Town of Loxahatchee Groves, Florida.
 Fire Station Renovations.
 Services provided by the firm: Prepare Boundary Surveys with topography; Review Commitments; Prepare Control Survey.

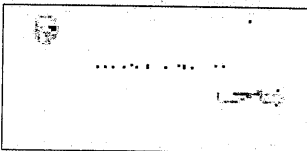
PBC Fire Rescue - STATION NO. 45 BUNK ROOM EXPANSION – Palm Beach County, Florida.
 Fire Station Renovations.
 Services provided by the firm: Prepare Boundary Survey with topography. Prepare Final Record Drawings.

Professional Registrations
 Licensed Professional
 & Mapper Florida No.
 5888

Professional History
 2000-Present
 Dennis J. Leavy &
 Associates, Inc

Professional Affiliations
 Florida Surveying &
 Mapping Society

- Experience Summary**
- Boundary Surveys
 - Topographic Surveys
 - Right-of-Way Surveys
 - Hydrographic Surveys
 - Platting
 - Title Commitment Review
 - Project Management
 - Legal Description Preparation
 - Control Surveys
 - As-Built Surveys
 - Record Drawings
 - ALTA/ACSM Surveys





Andrew Nixon, PE

Senior Project Engineer / Managing Partner
18 Years of Experience



Mr. Nixon has 18 years of experience including providing Environmental, Geotechnical and Construction Materials Testing Services for low and high-rise structures, infrastructure, utilities, water and wastewater treatment plants, pump stations, bridges, piers, stormwater treatment areas, canal improvements, reservoirs and dams, roadways, etc. He prepares and reviews geotechnical and materials engineering inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

Mr. Nixon's skills include also completing and supervising pile inspections, helical pier inspections, fireproofing inspections, load tests, and monitoring specialty ground improvement techniques such as vibrocompaction, vibro-replacement and dynamic compaction. He has conducted and supervised several Preconstruction Video Surveys and Vibration Monitoring Programs.

He has provided oversight of field and laboratory testing programs during the construction phase of a variety projects, and supervised other engineers in the Construction Materials Testing Department. The testing programs typically included the performance of earthwork inspections, field and laboratory testing of soils, and field sampling of concrete. Mr. Nixon has also inspected and supervised testing programs during the construction of various roadway projects.

PROJECT EXPERIENCE

City of Sunrise - Southwest Wastewater Treatment Plant RAS Piping, Broward County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of a new 12-inch watermain along Slydgemill Road and the replacement of a 12-inch water main on the east side of the Southwest Wastewater Treatment Plant.

Broward County - North District Regional Water Treatment Plant, Broward County, Florida

Mr. Nixon served as the Geotechnical EOR to investigate the settlement and cracking of 40+ year old wash-water recover basin, which consisted of a 12-inch-thick reinforced concrete base slab with a 3-inch-thick shotcrete slope tied into a 4-inch-thick concrete apron.

City of Boca Raton - Wastewater Treatment Plant, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of a one-story blower building that will house blowers and electrical equipment as well as the relocation of the in-plant lift station.

Palm Beach County - West Regional Wastewater Treatment Facility, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for the Electric and Wet Weather Improvements project, which included installation of a new generator unit with a fuel tank, a lug box, and FPL transformer.

CONTACT

515 E Las Olas Blvd., Suite 120
Fort Lauderdale, FL 33301
AndrewNixon@wirxeng.com
(561) 762-8918

EDUCATION

Bachelor of Science in Ocean
Engineering, Florida Atlantic
University, Florida (2005)

PROFESSIONAL LICENSING

Engineer - FL #PE 71458
OSHA 40-hour HAZWOPER
Advanced MOT
Qualified Stormwater Inspector

CAPABILITIES

Project Management
Geotechnical Engineering
Foundation Design
Quality Control Inspections
Environmental Engineering

Copy of PE license included in Forms Section

Andrew Nixon, P.E.

Senior Project Engineer / Managing Partner



Spring Lake Improvements District - Waste Water Treatment Plant, Sebring, Florida

Mr. Nixon served as the Geotechnical EOR for the design of two effluent disposal beds, a small building for the prepackaged wastewater treatment and the replacement of a lift station.

City of West Palm Beach - Water Treatment Plant, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of a Powder Activated Carbon (PAC) basin, which is a self-contained unit that rests on a concrete tank.

City of West Palm Beach - Water Treatment Plant, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for the West Palm Beach Water Treatment Plant Improvement project, which consisted of the removal of existing underground cisterns and construction of a wet well. The wet well entailed a deep excavation in proximity to an existing water tank, which involved underpinning the water tank.

City of Margate - East Wastewater Treatment Plant, Broward County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of an asphalt paved access road and a dump site consisting of a concrete floor slab and masonry screen walls.

Seacoast Utility Authority - Richard Road Water Treatment Plant, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of a new pump station facility to replace an existing one. The new pumping facility consisted of a 200-horsepower high service vertical turbine pump placed in a new pump can with associated piping and electrical work.

Broward County - Water & Sanitary Sewer System Improvements for Utility Analysis Zone 113A (UAZ 113A), Broward County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of the replacement of approximately 168,100 Linear Feet (LF) of existing water mains, approximately 122,100 LF of existing sanitary sewer mains, and approximately 23,600 LF of existing force mains.

City of Fort Lauderdale - NE 25th Avenue 24-inch Force Main Replacement, Broward County, Florida

Mr. Nixon served as the Geotechnical EOR for the design of the replacement of approximately 5,500 linear feet of the existing 24-inch Reinforced Concrete Pipe (RCP) along NE 25th Avenue.

City of Sunny Isles Beach - Central Island Area Pump Stations, Sunny Isles Beach, Florida.

Mr. Nixon served as the Geotechnical EOR for the design of two new pump stations on the southeast side of the intersection of N. Bay Drive and 178th Drive, and the northeast side of the intersection of N. Bay Drive and NE 181st Street.

City of Fort Lauderdale - NE 38th Avenue 42-inch Force Main and 19th Avenue 24-inch Force Main Replacement Project, Fort Lauderdale, Florida

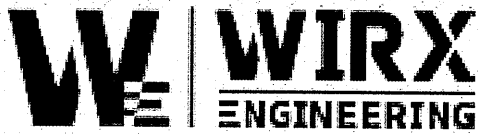
Mr. Nixon served as the Geotechnical EOR for the design of the replacement of approximately 8,000 LF of 42-inch Ductile Iron Pipe (DIP) force mains along NE 38th Street and the construction of approximately 3,000 LF of new 24-inch force main along 19th Street.

City of Fort Lauderdale Bermuda Riviera Small Water Mains Improvements Project, Fort Lauderdale, Florida

Mr. Nixon served as the Geotechnical EOR for water main improvements within the Bermuda Riviera district including an aerial pipe crossing.

SFWMD EAA Canal Conveyance Improvements, Palm Beach County, Florida

Mr. Nixon served as the Geotechnical EOR for proposed canal conveyance improvements to the North New River Canal and Miami Canal.



Clifford Hippolyte, P.E., G.C.
 Senior Project Engineer / Managing Partner
 18 Years of Experience

Clifford Hippolyte, PE, GC is a licensed Professional Engineer and General Contractor. He specializes in water resource related infrastructure design and construction and has over 18 years' experience in providing design and construction on 100's of small to large scale and high-profile projects. His knowledge extends into different project perspectives including design, construction management, construction inspections, material testing, and general contracting. His extensive civil, geotechnical and structural experience includes the design and inspection of foundations, earthworks and concrete for a variety of projects including reservoirs, embankments/levees, pump stations, commercial structures, etc. His combined technical knowledge and hands-on experience brings insight to all aspects of a project including design intent, construction means and methods oversight, and inspection and testing during construction.

CIVIL/GEOTECHNICAL EXPERIENCE

STA-1W Refurbishments; SFWMD, FL – Mr. Hippolyte served as the Lead Quality Assurance Inspector for this project which included modifications to a 6,670-acre stormwater treatment area to improve water quality discharges to the Everglades Protection Area. Mr. Hippolyte's geotechnical related inspections included earthwork inspections of the levee construction and removal, excavation and backfill of canals, site grading, earthen cofferdams, and dewatering to ensure construction was completed in accordance with the Civil and Geotechnical Design Plans. Mr. Hippolyte also coordinated geotechnical technicians and inspectors to collect soil samples for laboratory testing in accordance with ASTM D1557 to determine the compaction characteristics of the subgrade and foundation soils. In addition, Mr. Hippolyte coordinated geotechnical technicians to provide field density testing of the various foundation and subgrade components in accordance with ASTM D6938.

EAA A-2 Reservoir Pumping Station S-623; USACE, FL – Mr. Hippolyte served as a Design Engineer for the project, which consisted of a 4,600 cfs pump station serving as the main inflow structure to the A-2 Reservoir, which is part of the Comprehensive Everglades Restoration Plan. Mr. Hippolyte's civil/geotechnical design included cast-in-place and precast concrete structures including foundation evaluations along with the design of sheetpiles for the dewatering/cofferdam system. Mr. Hippolyte also served as the engineer for the embankment design of the inflow and outflow channels, which included geotechnical slope stability and seepage analyses. Mr. Hippolyte also designed the erosion control system, which consisted of rip-rap and filter fabric.

Sewer Main Siphon (2C2) and Upper Margarita (2C3), Rio Puerto Nuevo; USACE, PR – Mr. Hippolyte served as a Design Engineer for the project, which consisted of a 3,500 L.F. reinforced concrete U-shaped channel constructed within an existing earthen channel in a fully urbanized watershed, to convey super-critical flow. The project also included geotechnical foundation improvements via soil mixing, and installation of temporary structures to retain earth, support excavations, divert and convey water, and protect existing structures.

C-43 Reservoir Bid Package 3, and 4; SFWMD, FL – Mr. Hippolyte served as a Design Engineer for the project, which consisted of a 170,000 acre-feet above ground reservoir. Overall project separated into 4 bid packages, including one 1,500 cfs pump station, 2 irrigation pump stations, 14 water control structures, 19 miles of embankment, and other features. Mr. Hippolyte designed the embankments, which included geotechnical analyses such as foundation, seepage and slope stability evaluations.

CONTACT

515 E Las Olas Blvd, Ste 120
 Fort Lauderdale, FL 33301
 CliffordHippolyte@wirxeng.com
 (954) 663-5087

EDUCATION

Bachelor of Science in
 Engineering, Florida Atlantic
 University, Florida

PROFESSIONAL LICENSING

Civil Engineer – FL #PE83242
 Certified General Contractor –
 FL #CGC1527246

Copy of PE license included in Forms Section

SOFTWARE

AutoCAD Civil 3D | OpenRoads
 Designer | HEC-RAS | EPA
 SWMM | ICPR | e-Builder |
 MCASES MII | SpecsIntact

Clifford Hippolyte, P.E., G.C.
Senior Project Engineer / Managing Partner



C-10 Water Management Area Pump Station; SJRWMD; FL – Mr. Hippolyte served as a Design Engineer for the project, which consisted of a 300 cfs pump station to redirect stormwater being discharged into the Indian River Lagoon to a 1,300-acre above ground impoundment. Mr. Hippolyte's geotechnical-related design included foundation and dewatering components and design of inflow/outflow levees and canals, which includes slope stability, erosion protection and construction specs.

EAA A-1 Flow Equalization Basin Design; SFWMD; FL – Mr. Hippolyte served as both a Design Engineer during the design phase and as the Lead Quality Assurance Inspector during the construction phase of the project, which included a 15,000-acre shallow detention basin with 60,000 acre-feet of storage, including 21 miles of levee, 15 water control structures, pump upgrades, and other features. Mr. Hippolyte's civil/geotechnical design included cast-in-place and precast concrete structures including foundation evaluations along with the design of sheetpiles for the dewatering/cofferdam system. Mr. Hippolyte also served as an engineer for the embankment design of the basin, which included foundation analyses, slope stability and seepage analysis. During the construction phase, Mr. Hippolyte's geotechnical related inspections included earthwork inspections of the embankment construction, including de-mucking, site grading, and the placement and compaction of engineered fill material. Geotechnical inspections of driven, pre-stressed concrete piles were also conducted for the stilling well platforms. He coordinated geotechnical technicians and inspectors to collect soil samples for laboratory testing in accordance with ASTM D1557 to determine the compaction characteristics of the subgrade and foundation soils. He also coordinated geotechnical technicians to provide field density testing of the various foundation and subgrade components in accordance with ASTM D6938, in addition to coordinating technicians to sample and test structural concrete elements in accordance with ASTM C39.

C-23 Canal, Section C Water Farm Above Ground Impoundment (AGI) Design/Build; SFWMD, FL – Mr. Hippolyte served as a Design Engineer for the project, which consisted of 1,240 acre-feet AGI developed as an emergency response to the blue-green algae blooms plaguing the St. Lucie estuaries to collect stormwater runoff from neighboring agricultural lands to reduce nutrient loading of the water received by the estuaries. Mr. Hippolyte provided the embankment design (foundation, slope stability and seepage) of 8-foot high perimeter levees along with the foundation design of a gated outflow water control structure.

C-139 Annex Phase 1A; SFWMD, FL – Mr. Hippolyte served as the Lead Quality Assurance Inspector for the project, which included the restoration of historic Everglades hydrologic conditions of 2,875 acres of citrus grove. Construction consisted of leveling and cross disking of planting beds, swales and ditches, removal and replacement of corrugated metal pipe culverts, and well abandonment. Mr. Hippolyte's geotechnical related inspections included earthwork inspections.

Bolles Canal Conveyance Improvements Segment 1 and 2; SFWMD FL – Mr. Hippolyte served as the Lead Engineering Inspector for the project, which consisted of the construction and improvements to a 1.2-mile portion of the Bolles East (L16) Canal to increase conveyance. Construction included deepening and widening an existing canal involving drilling and blasting of limestone layer, construction of an earthen berm, earthen cofferdams, access roads, and installation of corrugated metal pipe culverts. Mr. Hippolyte's geotechnical related inspections included earthwork inspections of the embankment construction, including de-mucking, site grading, and the placement and compaction of engineered fill material. Mr. Hippolyte coordinated geotechnical technicians and inspectors to collect soil samples for laboratory testing in accordance with ASTM D1557 to determine the compaction characteristics of the subgrade and foundation soils. Mr. Hippolyte also coordinated geotechnical technicians to provide field density testing of the side slopes in accordance with ASTM D6938.

Paramount Bay High-Rise Condominium; Miami FL – Mr. Hippolyte served as an Engineering Inspector of the augered cast-in-place (augercast) concrete piles associated with the construction of a 47-story high rise building. Grout samples were collected and tested in accordance with ASTM C39. Mr. Hippolyte's geotechnical related inspections also included excavations, foundation construction, slab-on-grade and underground utilities.

St. Regis Hotel; Bal Harbour FL – Mr. Hippolyte served as an Engineering Inspector of the augered cast-in-place (augercast) concrete piles associated with the construction of three 27-story high rise buildings. Grout samples were collected and tested in accordance with ASTM C39. Mr. Hippolyte's geotechnical related inspections also included sheet pile cofferdam/shoring, dewatering, excavations, concrete slab-on-grade installation, and underground utilities.



Gregory J. Stelmack, PE
 Principal Engineer / Managing Partner
 34 Years of Experience

Mr. Stelmack, PE, has over 34 years of experience and an extensive history of work involving all types of Civil Engineering and Infrastructure-related projects. He has served as the Sr. PM and Engineer of Record on 1000's of projects, including numerous large scale and high-profile projects and Continuing Service Contracts in South Florida for both private and public clients, including: The South Florida Water Management District (SFWMD), Florida Department of Transportation (FDOT), the United States Army Corps of Engineers (USACE), Broward, Palm Beach and Miami Dade Counties and their School Districts, and numerous Cities and other County Agencies.

Mr. Stelmack is an expert in providing geotechnical and materials engineering; materials testing and inspection; and CEI services for all types of commercial buildings/structures, towers, earthwork/reservoirs, pump stations, roadway/bridge structures and interchange projects. His skill set includes planning, design, and construction management of new and rehabilitation projects. He is experienced with both standard and specialty equipment and specializes in providing design recommendations for deep and shallow foundation systems and earthwork construction (i.e., commercial structures, bridge structures, transmission and communication towers, substations, pumpstations, STA's, FEB's, reservoirs, impoundments, water & wastewater treatment plants, dams, highways, road development/design, embankments & retaining structures).

Mr. Stelmack prepares and reviews geotechnical and materials engineering and inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

RECENT PROJECT ENGINEERING/MANAGEMENT LIST

Performing as a Senior Contracts/Project Manager, Senior Geotechnical Engineer, and QA/QC Engineer for the following Engineering Design and CEI/CMT projects:

City of West Palm Beach, Continuing Contract - Geotechnical and Testing Services (CCNA), WBP, Florida (2011–2022)
Role in the Contract - Senior Contract Manager, Senior Geotechnical and Materials Engineer. Mr. Stelmack served as Senior PM providing geotechnical, and material testing and inspection services for over 12 years on numerous municipal projects ranging in nature from roadway construction, pavement analysis, sidewalk and curb replacements, building foundations, seepage studies, historical studies, Park improvements; seawalls and piers, water treatment plants and waste disposal sites.

FDOT Districts 4 and 6, and FDOT Turnpike, Florida - Districtwide Materials Testing Continuing Services Contracts
Role in the Contract - Senior Project and Contract Manager - As Prime Consultant for multiple durations of these FDOT Districtwide Contracts (10+ years), the work included providing districtwide QA/QC materials field and laboratory testing services.

CONTACT

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 Jupiter, FL 33458
 GregoryStelmack@wirxeng.com
 (561) 307-0166

EDUCATION

Bachelor of Science in Civil
 Engineering, University of
 Wisconsin, Madison (1989)

PROFESSIONAL LICENSING

Engineer – FL #PE 70556
 CTQP Drilled Shaft Inspection
 CTQP Pile Driving Inspection
Copy of PE license included in Forms Section

CAPABILITIES

Geotechnical Engineering
 Construction Materials Testing
 Construction Inspections
 Quality Control and Assurance

Gregory Stelmack, P.E.
Principal Engineer / Managing Partner



FDOT D2, D4, D5, D6, D7, Turnpike, Florida - Geotech & Materials Testing and Inspection Continuing Services Contracts
Role in the Contract - Senior Project and Contract Manager – as a Sub to the Prime on dozens of Districtwide Contracts over 10 years providing geotechnical drilling and engineering, construction materials testing and inspection (QA/QC).

Palm Beach Co – Div of Engineering and Public Work, Continuing Service Contract, Palm Beach County, FL (2011–2022)
Role in the Contract - Senior Contracts Manager / Sr. Geotechnical Engineer and CMT/CEI Administrator. Multi-year Geotechnical Engineering and Construction Materials Testing and Inspection support Contract for Palm Beach County Engineering and Public Works Depts. Have secured multiple Continuing Services Contracts with PBC over the last 12 years. For this Contract, provided Geotechnical Drilling and Engineering Design Services and Construction Materials Testing in the Laboratory and Field, and Quality Assurance Inspection support on dozens of roadways and utility construction and rehabilitation Projects.

Palm Beach and Broward County School Districts - Continuing Service Contracts, Broward Co, FL (2014–2022)
Role in the Contract - Senior Contracts Manager / Sr. Geotechnical Engineer and CMT/CEI Administrator. Multi-year Geotechnical Engineering and Construction Materials Testing and Inspection support Contract for the Broward County School District. For this duration of Contract, provided Geotechnical Drilling and Engineering Design Services and Construction Materials Testing, laboratory testing and Quality Assurance Inspection support services on over 50 Broward County and 50 Palm Beach County School District Projects.

City of Fort Lauderdale, Broward Co. Eng. Rec Water Trans - UAZ Projects 110, 111, and 113, Broward Co, FL 2017 - 2022
Role in Project. Senior Geotechnical Engineer and CEI Administrator on a multi-year, multiple location rehabilitation water and sewer project in support of Chen Moore and Associates. Provided full scope geotechnical engineering and construction materials testing and inspection (CEI) services, which included traditional SPT soils borings, pavement coring, utility locates and traffic control oversight, rehab design recommendations during design, and attending pre-construction and progress meetings, conducting on-site observations/verification of construction in progress (including specialized field tests) to assist in determining if construction is proceeding in substantial accordance with the Contract Documents during construction. Maintaining a set of "as-built" drawings with notes and annotations based on inspector's observations.

City of Fort Lauderdale, Hendricks Isle Seawall Replacement, Broward Co, FL (2021-2022)
Role in project. CEI Administrator / Vibration Specialist / Contract Manager. Provided Pre and Post Condition Surveys and Vibration Monitoring during construction in support of Hazen and Sawyer and the City. Performed Condition Surveys of the surrounding public and private residences for a series of Sea Wall Replacements for the Hendricks Isles Development. Also provided full-time remote Vibration Monitoring and weekly Inspection support.

Broward County – Port Everglades, Continuing Support Contract w/Atkins, Broward Co, FL (2017–2022)
Role in Project. Senior Contracts Manager / CEI Administrator. Multi-year Inspection and Construction Materials Testing support Contract for Broward County at Port Everglades through Atkins. For this Contract, provided Construction oversight support and Construction Materials and Laboratory Testing on over a dozen Port Everglades Projects.

Broward County - Lauderhill Mall Transit Center, Broward County, Florida (2020–2021)
Role in Project. Geotechnical Engineer and CEI Administrator. This new transit center in Lauderhill, Florida sits on 1.5 acres in the existing Lauderhill Mall and includes three new buildings with 10 bus bays, a security office, public restroom and two platforms. Leading geotechnical engineering and construction materials testing efforts including coordination of all geotechnical drilling, laboratory and engineering services and field density tests for foundations, concrete testing of foundations pavement and ancillary structures during construction.



Wendy Cyriacks

Principal-in-Charge/Chief Scientist

Office Location

Deerfield Beach, FL

Education

- M.S. Marine Biology, Nova Southeastern University (graduate classes completed, 2004)
- B.S. Biology, University of Miami, 1983

Special Qualifications/Certifications

- 35+ years environmental experience in south Florida
- Extensive permitting and NEPA/PD&E experience
- Former FDOT Environmental Administrator, Districts 4 & 6
- FDEP Certified Erosion and Sediment Control Inspector (2004)
- PADI Open Water/Advanced/Rescue/Nitrox/AAUS

Wendy Cyriacks has over 35 years' experience in environmental analysis and impact studies, permitting and NEPA documentation. Wendy serves as Principal in Charge and/or Chief Scientist on large scale environmental projects. She has coordinated extensively with permitting agencies and has been responsible for obtaining state, federal, and local environmental permits for numerous public sector projects. She has managed and/or conducted natural resource studies including wetlands, marine benthic resources, threatened and endangered species, and contamination assessments. She also developed mitigation and monitoring plans, conducted permit compliance reviews, and QA/QC reviews.

PROJECT EXPERIENCE

Savannas Preserve State Park - SUN Trails, Environmental Permitting FDOT District 4, St. Lucie County, FL - This project involves design and permitting for an 11.9-mile long, multi-use, paved trail through the Savannas Preserve State Park. The trail will go from SE Walton Road north to the Savannas Recreation Area. Project Environmental Manager responsible for project oversight of the wetland delineation and environmental permitting effort. Assisted with finalizing trail alignment in coordination with Engineer, FDOT, FDEP and St Lucie County. Activities include project management, scheduling, resource allocation and Quality Control/Assurance.

SR A1A Deerfield Beach PD&E Study, City of Deerfield Beach/FDOT District 4, Broward County, FL - This Local Agency Program (LAP) project extends from SE

3rd St to NE 7th St through the Beach Community Redevelopment Area. Environmental Project Manager responsible for preparing all environmental studies and documentation including NEPA (Categorical Exclusion, Type 2), Endangered Species Biological Assessment, Contamination Screening Evaluation, and Noise Study Reports.

- **Singer Island Bridge Replacement, Environmental Permitting, City of Riviera Beach, FL** - The project involved replacement of six residential bridges. Responsible for project oversight, management, scheduling and quality control reviews. Specific tasks involve conducting a marine benthic survey and delineating of seagrass and other benthic resources (oysters, hard and soft corals); and preparing SFWMD and USACE permit applications and support documentation for bridge replacements and seagrass impacts and conducting Section 7 consultation with National Marine Fisheries Service (NMFS) due to impact to Johnson's seagrass.
- **Palm Beach County Traffic Signal Design/Overhead School Zone Flashers, NEPA, Palm Beach County, FL** - Under an FDOT Local Agency Program (LAP), Palm Beach County Traffic is installing solar-powered school flasher signals on two approaches at five schools. CECOS conducted a desktop analysis and prepared a National Environmental Policy Act (NEPA) Type I / PCE Checklist (Checklist), for the five school sites, including the supporting documentation. Supporting documentation included impacts to air, noise, water quality, wetland, floodplain, listed and their critical habitat, Section 4(f) properties, and contamination.
- **SR 710 PD&E Study - Environmental Assessment/Finding of No Significant Impact, NEPA Documentation & Support Environmental Studies, FDOT District 4, Palm Beach & Martin Counties, FL** - Environmental Manager for a 25-mile road improvement. The project traverses extensive environmental sensitive areas including conservation lands and habitat for listed species. Responsible for managing all environmental activities including preparation of NEPA document (EA/FONSI) and support environmental documents (Endangered Species Biological Assessment, Wetlands, and Contamination). Additional responsibilities include conducting wetland/habitat mapping of over 900 acres, preparing UMAMs, listed species surveys, wildlife crossing study, and development of wetland and species mitigation plans. Conducted extensive agency coordination with SFWMD, USACE, USFWS, FFWCC and PBC ERM.
- **Palm Beach County General Consulting Services, Palm Beach County Department of Airports, Palm Beach County, FL** - Environmental Manager for five separate PBC DOA General Consulting Services contract since 2009; providing miscellaneous environmental and permitting services including wildlife studies surveys (burrowing owl, gopher tortoise, wildlife hazard assessment), environmental permitting for NCO and LNA, annual SWPPP updates and compliance inspections (2010 - 2021), wetland delineations and agency coordination.

Wendy Cyriacks
Principal-in-Charge/Chief Scientist

Pembroke Road Expansion/Miramar Parkway Extension, Environmental Permitting, City of Miramar, Broward County, FL - The project involves a 5.6-mile road widening and extension that includes widening of Pembroke Road from SW 160th Ave. (Dykes Road) east to SW 196th Ave. from a two-lane road to a four-lane divided roadway and the extension of Pembroke Road from SW 160th Ave. to connect with US-27. Additionally, Miramar Parkway will be extended to Pembroke Road. Project Manager responsible for project oversight, scheduling, supervision, quality control reviews and agency coordination.

East-West Corridor Transit Project Development & Environment (PD&E) Study, Department of Transportation and Public Works (DTPW), Miami-Dade County, FL - This 11-mile long project consists of conducting a PD&E Study for the Metrorail Extension from the Miami Intermodal Center (MIC) to Florida International University (FIU). Two transit modes were being evaluated including Heavy Rail and Bus Rapid Transit. Environmental Manager responsible for preparation of the NEPA document and support environmental documentation including Natural Resources, Contamination, and Section 4(f).

SR 80/Southern Boulevard Bridge Replacement PD&E Study, Design and Permitting, NEPA Documentation, Permitting, FDOT District 4, Palm Beach County, FL - This project involves the replacement of the two bridges over the Intracoastal Waterway and Lake Worth Lagoon. Project Manager responsible for preparing the NEPA documentation, Wetlands, Endangered and Threatened Species and EFH Assessment Reports. Conducted marine benthic survey for approximately 34 acres. Other activities include conducting wetland impact assessment and species surveys, evaluating impacts to environmental resources due to construction methodology. Also responsible for preparing and obtaining permits from the USACE, USCG and SFWMD.

I-95/Spanish River Boulevard Interchange PD&E Study, NEPA Documentation, FDOT District 4, Palm Beach County, FL - This project involves the widening of I-95 from south of Glades Road to south of Linton Road and the addition of a new interchange at Spanish River Boulevard. Environmental Project Manager responsible for preparation of the NEPA and natural resource documents and Determination of Applicability 4(f). Key issues include impacts to scrub habitat, listed species and Section 4(f) resources. Preparing permit applications for SFWMD and USACE.

SR 968/Flagler Street Premium Transit PD&E Study, NEPA Documentation, FDOT District 6, Monroe County, FL - The FTA is the lead agency for this 21-mile-long PD&E Study to evaluate transit options. Environmental Manager responsible for preparation of the NEPA document and support environmental documentation including Noise, Air, Natural Resources, Contamination, Section 4(f) and Socio-economic. The project traverse a primarily urban area, therefore key issues include impact to parks and other community features, community impacts, contamination and noise.

SR 9/I-95 from South of Hallandale Beach Boulevard to North of Hollywood Boulevard PD&E Study, Environmental Studies & Documentation, FDOT District 4, Palm Beach County, Florida - This project involves improvements to the I-95 and the interchanges at Hallandale Beach Boulevard, Pembroke Road, and Hollywood Boulevard, a distance of approximately 3 miles. Responsibilities include environmental data collection, analysis and documentation for the Categorical Exclusion Type 2, Contamination Screening, Natural Resources, Socio-cultural and Section 4(f) documentation. Project Manager responsible for overall management of contract, resource allocation, scheduling and quality control reviews of all documents.

SR 786/PGA Boulevard, Environmental Permitting & Mitigation, FDOT District 4, Palm Beach County, FL - This 2-mile long project traversed Loxahatchee Slough Natural Slough and involved elevating the roadway and constructing a new bridge to reduce roadway flooding and improve flow between the north and south sides of the Loxahatchee Slough. Environmental Manager responsible for project oversight, scheduling and quality control. Major tasks involved habitat mapping 6,589 acres in Loxahatchee Slough, conducting biological evaluations, environmental permitting and development of an onsite mitigation plan. Extensive agency coordination with SFWMD, USACE and Palm Beach Environmental Resources Management (ERM) occurred during the development of the mitigation plan (hydrological improvements).

SR 9/I-95 Express, Phase 3A-2, Design-Build, North of Commercial Boulevard to South of SW 10th Street, Environmental Permitting, FDOT District 4, Broward County, FL - This 8.2 mile project involves the addition of express/toll lanes onto the mainline of I-95. The work includes lane additions, noise barrier construction, landscaping, drainage improvements, and ITS conduit installation. The project limits included jurisdictional swales and the C-14 Canal. Environmental Chief Scientist responsible for permitting assistance to the Design Build team related to SFWMD SWERP modifications (conceptual to construction), USACE Section 404 permit modifications and Section 408 reviews, and SFWMD ROW permit modifications.

West Relief Bridge Replacement Permitting, Mitigation & Monitoring, Town of Bay Harbor Islands, Miami-Dade County, FL Responsible for preparing and obtaining environmental permits, developing a mitigation plan for the construction of a new bridge, located in Biscayne Bay, an OFW and Aquatic Preserve. Conducted marine benthic surveys to determine impacts to the benthic communities which included seagrass and hard bottom habitat. Also conducting five-year monitoring of the mitigation site (artificial reef). Prepared permit application packages and obtained permits from Broward County EPD, SFWMD, and USACE.



Miguel Fernandes, Ph.D. Senior Scientist

Office Location

Deerfield Beach, FL

Education

- Ph.D. Biology, University Miami
- B.S. Wildlife Biology, The University of Montana

Special Qualifications

- 10+ years of environmental experience in south Florida
- Federal NEPA training and Biological Assessment experience
- Federal grant writing experience
- Expertise in wildlife surveying and monitoring of Threatened & Endangered Species
- Expertise in the analysis of animal data
- Bat acoustic monitoring, surveying, and acoustic data analysis training

Miguel Fernandes has over 20 years of ecology and wildlife research experience in Florida, including conducting a long-term wildlife monitoring study in the Everglades and small mammal surveys throughout south Florida. He has a broad range of field and quantitative analysis skills. This includes expertise in designing and conducting survey and monitoring studies of Threatened and Endangered (T&E) bat, avian, amphibian, and mammal species. Miguel is National Environmental Policy Act (NEPA) trained by the U.S. Forest Service (USFS) and has conducted Biological Assessments for a variety of natural resource development projects, including road construction, mining exploration, and logging. He also has experience as a successful federal grant writer and was Co-Principal Investigator in two major NFS grants.

PROJECT EXPERIENCE

Pembroke Road Expansion/Miramar Parkway Extension, Environmental Permitting, City of Miramar, Broward County, FL - Road infrastructure project to widen Pembroke Rd, Pembroke Pines FL, from a two-lane to a four-lane divided roadway and extending this road by 5.6 miles, connecting it to US-27. Specific tasks included environmental permitting, identifying potentially impacted species, determining primary and secondary wildlife impacts, and identifying potential environmental and wildlife project mitigation measures.

Indian River Lagoon South C-23/24 Stormwater Treatment Area, Wildlife Surveys, U.S. Army Corps of Engineers (USACE), St. Lucie County, FL -

Responsible for overseeing and conducting expected protected species surveys, including 15% and 100% Florida gopher tortoise, eastern indigo snake, bird, and general species surveys on approximately 2,000 acres of storm water treatment area construction. Identified, GPS located, and mapped tortoise burrow and nesting bird locations. Responsible for reviewing and editing Preconstruction Report Addendums documenting protected species surveys.

- **Everglades National Park Long-Term Small Mammal Monitoring Study, Doctoral Research, U.S. National Park Service (USNPS), Homestead, Miami-Dade County, FL** - Doctoral Research, *Effects of Changes in The Everglades on Two Indicator Species: Sigmodon hispidus And Oryzomys palustris*. Responsible for all aspects of USNPS and U.S. Geological Survey (USGS) funded long-term research examining the relationship between key Everglades landscape and hydrology attributes and long-term population demographic parameters of two native small mammal species. Work included conducting monthly small mammal live-trapping and ear-tagging, preparation of state and federal research permits and USNPS and USGS technical reports. Data analyses included GIS spatial analysis of tree islands and the application of advanced Capture-Mark-Recapture data analysis techniques to investigate the influence of hydrology, climate and landscape variables on rodent survival and transition rates among the Everglades tree islands. Also, documented incidental observations of protected species, such as the Florida manatee, snail kite, and indigo snake.
- **Cape Canaveral National Seashore, Southeastern Beach Mouse Survey Study, USNPS, Merritt Island, FL** - Responsible for all aspects of designing and conducting a two-year USNPS funded survey of the threatened Southeastern beach mouse on Cape Canaveral National Seashore. Responsibilities included acquiring state, federal, US Air Force, and Kennedy Space Center research permits, designing and conducting monthly live-trapping, identification, and ear-tagging of small mammals. Additional tasks included small mammal capture-mark-recapture data analysis, GIS mapping of survey sites and vegetation, and preparation of USNPS technical progress and final reports. In addition to the small mammal research, Miguel also identified, and GIS located Florida gopher tortoise burrows and eastern indigo snakes when encountered.
- **Biscayne National Park Small Mammal Survey, USNPS, Homestead, Miami-Dade County, FL** Responsible for all aspects of designing and conducting a two-year USNPS funded small mammal survey of Biscayne National Park. Responsibilities included the preparation of state and federal research permits, logistics of surveying mainland and island survey sites, and conducting monthly small mammal live-trapping, identification, and ear-tagging along transect trap lines. Additional tasks included training and overseeing field crews, small mammal capture-mark-recapture data analysis, GIS mapping of survey sites and vegetation, and preparation of USNPS technical progress and final reports.

Miguel Fernandes, Ph.D.
Senior Scientist

- **Superior National Forest, School Trust Land Exchange, NEPA Documentation and Environmental Studies, USFS, Duluth, MN** – Project involved conducting a Biological Assessment of alternatives for an extensive land exchange between Superior National Forest and Minnesota's Department of Natural Resources. Primary responsibilities included conducting terrestrial wildlife effects analysis of each of three land exchange alternatives and preparing environmental documentation in accordance with NEPA, including section 7 consultations with US Fish and Wildlife Service (USFWS) to ensure compliance with the Endangered Species Act. This complex analysis included tasks such as the identification of diversity "hot spots", rare habitats, and extensive GIS spatial analyses of potential changes to sensitive species' habitat area, quality indicators, fragmentation, and human disturbance. Additional tasks included performing an ArcGIS spatial analysis of Canada lynx telemetry collar data that identified seasonal differences in habitat use, including the identification of habitat vital to lynx winter survival.
- **Northern Research Station - Kirtland's Warbler Long-Term Monitoring Study, USFS, Madison, WI** Conducted extensive data analysis of long-term monitoring (mist-netting, banding, and resighting survey) data for the endangered Kirtland's warbler. Used advanced mark-resight data analysis to estimate female Kirtland's warbler annual apparent survival rates and examined the influence of a suite of environmental variables and habitat management treatment variables on female warbler survival/return rates. Assessed warbler monitoring studies methods and identified opportunities to streamline and improve warbler monitoring.
- **Superior National Forest, Minerals Development, Exploratory Well Drilling Permit Assessment, NEPA Documentation and Environmental Studies, USFS, Duluth, MN** – Conducted terrestrial wildlife assessment of mining exploratory well drilling permit requests within Superior National Forest. Responsible for performing analysis of project alternatives and preparing environmental documentation in accordance with NEPA (Environmental Assessment/Finding of No Significant Impact) as well as section 7 consultations with USFWS to ensure compliance with the Endangered Species Act. Project included identifying the presence and potential impacts on listed species and listed species' habitat. Responsible for completing terrestrial wildlife impact assessment, listed species surveys and documentation, including identifying wildlife impact mitigation measures and working with stakeholders to implement these. Specific tasks included habitat mapping and listed species surveys, such as bat acoustic surveys.
- **Superior National Forest, Minerals Development, Temporary Road Development Permitting, NEPA Documentation and Environmental Studies, USFS, Duluth, MN** – Responsible for conducting terrestrial wildlife assessment of temporary road projects in Superior National Forest. Tasks included working with stakeholders to ensure road development did not impact sensitive species, habitats, or wetlands, and preparation of Categorical Exclusion reports in accordance with NEPA. Additional tasks included identification of potential sensitive avian species nesting sites and of long-eared bat roosting trees in or adjacent to affected areas, as well as ensuring that temporary roads construction adhered to USFS permit requirements.
- **Understory Bat Mist Netting Survey, Cosuco National Park, Bat Survey, Wallace Foundation, Honduras** – Conducted mist netting survey of bat species in the understory of sustainable coffee plantation and in the surrounding forest on four "mountain islands" sites throughout Cosuco National Park Honduras. Responsibilities included identifying survey sites, team logistics, training and overseeing field crews, and conducting bat mist netting. Tasks also included describing vegetation variables, mapping sites, and collaborating on findings report to the Wallace Foundation. Additionally, helped researchers identify the types of bat data that could be collected using different bat sampling techniques and the ecological questions that each sampling technique was best suited to answer as well as recommending how to test and account for the potential influence of forest trails on bat and other wildlife surveys and monitoring in Cosuco National Park.
- **Beaverhead-Deerlodge National Forest - Avian, Amphibian, and Bat Surveys, USFS, Butte, MT** – Responsible for designing, conducting and overseeing field crews conducting Forest wide Northern Goshawk call-and-response surveys and nest mapping and monitoring. Designed and conducted amphibian stream surveys to identify and map Threatened and Endangered amphibian species throughout the Forest. Also conducted abandoned mine acoustic and visual bat surveys throughout Beaverhead-Deerlodge National Forest. Tasks included developing forest-wide wildlife survey protocols, GIS mapping of survey sites, training and overseeing field crews, fieldwork logistics, and preparation of USFS technical progress and final survey reports. Additional tasks included identifying, mapping, and finding abandoned mines that posed a potential danger to the public and surveying these for long-eared bats using acoustic and visual survey methods.



Shannon Kelley Senior Environmental Specialist

Office Location

Deerfield Beach & Miami Lakes, FL

Education

- BS, Biology, Florida Atlantic University, 2016

Special Qualifications/Certifications

- SCUBA Certified PADI Open Water
- Certified Advanced Florida Master Naturalist
- Registered Burrowing Owl Agent
- FDEP Florida Stormwater Erosion & Sedimentation Control Inspector
- SFAEP Wetland Delineation Training

Shannon Kelley holds a Bachelor of Science degree in Biology with an emphasis in marine biology and has over seven years of professional experience in the environmental field. She has worked as the Environmental Lead on major and minor projects which focus on environmental impact assessments, protected species, wetlands and surface waters, noise, contamination, and other National Environmental Policy Act (NEPA) documentation. Shannon has worked in both laboratory and field settings; conducting research projects and analyzing and collecting data.

PROJECT EXPERIENCE

Barwick Road LAP Project, NEPA & Environmental Permitting, Florida Department of Transportation (FDOT) District 4 and City of Delray, Palm Beach County, FL – This minor LAP project involves the addition of shared-use lanes, drainage improvements, and work within the L-32 Canal (owned by the Lake Worth Drainage District (LWDD)). Responsibilities include writing the Categorical Exclusion Type 1 document and preparing environmental permit

applications for the South Florida Water Management District (SFWMD) and Florida Department of Environmental Protection (FDEP).

- **Ludlam Trail LAP (Local Agency Program) Project PD&E (Project Development and Environment) Study, NEPA Documentation, FDOT District 6, Miami-Dade County, FL** – This project involved conducting a PD&E Study for the proposed improvements of adding a 6-mile trail in an abandoned railroad corridor using local and federal funds. This project connects multiple parks, residences, and privately funded developments. Environmental lead responsible for reviewing and commenting on all PD&E NEPA documents such as protected species and habitat, wetlands and surface waters, noise, contamination, air quality, sociocultural effects, archaeological and historical resources, and 4(f) resources.
- **SR-401 PD&E Study, NEPA Documentation, FDOT District 5, Cape Canaveral, FL** – This PD&E Study involves the replacement of three bascule bridges over the Canaveral Barge Canal, adjacent to the Banana Aquatic Preserve and the Merritt Island National Wildlife Refuge. Responsibilities include writing the Natural Resources Evaluation (NRE) Report, assisting FDOT with Florida Fish and Wildlife Conservation Commission (FWC) Consultation, and assisting FDOT with mitigation plans for mangrove impacts.
- **East-West Corridor Metrorail Extension PD&E Study, NEPA Documentations, Miami-Dade County Department of Transportation and Public Works (DTPW), Miami-Dade County, FL** – This project involves the evaluation of potential environmental impacts of multiple alignment alternatives in support of the PD&E Study for the proposed East-West transit Corridor. Responsibilities include updating the Contamination Screening Evaluation Report (CSER) as well as the NRE Report due to extension of project limits and new information obtained through desk top analysis and field investigation(s).
- **Quail Roost Drive PD&E Study, NEPA Documentation, FDOT District 6, Miami-Dade County, FL** – This PD&E study involves the widening of Quail Roost Drive from 2 to 4 lanes. Responsibilities include performing field work and writing the Sociocultural Effects Evaluation Report (SCE), Air Quality Memorandum, and CSER.
- **Flagler Street Demonstration Project, NEPA Documentation, FDOT District 6, Miami-Dade County, FL** – This FDOT District 6 project involves providing improvements to Flagler St. and SW 1st St. from approximately NW 27th Ave to SW 6th Ave by implementing Business Access and Transit Lanes by repurposing an existing travel lane between the existing project limits. Responsibilities include preparation of the Natural Resources Memorandum, Sociocultural Effects Memorandum, Section 4(f) documentation, and Categorical Exclusion Type 2 document.
- **I-95 PD&E Study, NEPA Documentation, FDOT District 4, Fort Lauderdale, FL** – This study involves improvements to three interchanges. Responsibilities include writing the NRE Report and assisting with FWS Consultation. Also conducted field reviews for contamination, community facilities, wetlands and listed species including a visual survey for the Florida bonneted bat.
- **Palmetto Express South PD&E Study, NEPA Documentation, FDOT District 6, Miami-Dade County, FL** – This PD&E Study involves the addition of express lanes along SR-826/ Palmetto Expressway. Environmental lead responsible for reviewing and commenting on all PD&E NEPA documents such as protected species and habitat, wetlands and surface waters, noise, contamination, air quality, sociocultural effects, archaeological and historical resources, and 4(f) resources. Assisted on wetland delineations.

Shannon Kelley
Sr Environmental Specialist

- **NPDES Annual Compliance Inspections, Permit Compliance, Palm Beach County Airports, FL** – Conducted SWPPP annual compliance inspections for 4 airports. Inspections included filling out individual forms for all tenants while inspecting for appropriate chemical management to ensure tenants are discharging into the stormwater system appropriately, and ensuring tenants are complying with the SWPPP. Annual Compliance Reports were written to summarize information.
- **FDOT District 6 Environmental Compliance Inspection Projects, Environmental Compliance, FDOT District 6, Miami-Dade County, FL** – These series of construction projects are located throughout Miami-Dade County. Responsibilities include conducting environmental compliance inspections based on project design plans and permits.
- **Florida Turnpike from Sawgrass Expressway to Glades Road Design Project, Environmental Permitting, Florida's turnpike Enterprise (FTE), Broward and Palm Beach Counties, FL** – This project involves the widening of the Turnpike as well as drainage improvements and work within the E-2W Canal (owned by LWDD). Responsibilities include preparing environmental permit applications for the LWDD, FDEP, and SFWMD.
- **Gopher Tortoise Survey, Wildlife Survey, Publix Distribution Center, Boynton Beach, FL** – Conducted gopher tortoise presence/absence survey via transects to determine the location of gopher tortoise burrows in both an open field and forested setting. Recorded location of burrows via Global Positioning System (GPS), and determined if the burrows were potentially occupied, inactive, or abandoned. Summarized findings into memo format.
- **Widen Taxiways F and P4, Relocation of Taxiways B and C, Burrowing Owl Survey & Burrow Collapsing, Boca Raton Airport Authority (BRAA), Boca Raton, FL** – Conducted burrowing owl surveys via transects including determining which burrows were in the construction work zone and scoping and collapsing 10 burrows. Recorded data including status of burrows, GPS location, and pictures.
- **Snake Creek Canal (C-9) Burrowing Owl Survey, Wildlife Survey, Water and Sewer Department (WASD), Miami-Dade County, FL** – Conducted presence/absence burrowing owl survey via transects. Recorded data including status of burrows, GPS location, and pictures. Prepared FWC permit amendment.
- **Palm Beach International (PBI) Airport Signature, Wildlife Survey, Burrow Collapsing, & Environmental Permitting, PBI, Palm Beach County, FL** – This project involves the construction of a new hangar on airport property. Responsibilities included conducting burrowing owl surveys, preparing a Migratory Bird Nest Removal Permit and permit addendum, and scoping and collapsing burrows.
- **Golden Glades Interchange Design Projects, FDOT District 6, Miami-Dade County, FL** – These design projects are separated into several segments and involve the reconfiguration of the Golden Glades Interchange, which connects I-95, the Turnpike, SR-441, and the Palmetto Expressway. Assistant District Contamination Impact Coordinator responsibilities included performing Level I Contamination Assessments for the eight segments, performing Right of Way Level I checklists for various parcels, assisting with planning Level II Contamination Assessment, and oversight of contamination. Assisted in writing the contamination sections of several Reevaluations.
- **Threatened & Endangered Species Monitoring and Data Collection, Florida Atlantic University Lab at Gumbo Limbo Nature Center, Boca Raton, FL** – Monitored Green and Loggerhead Sea turtles in a lab setting as well as collected and recorded species data on a daily basis. Participated in night-time hatchling releases.
- **Threatened & Endangered Species Observations and Data Collection, Hugh Taylor Birch State Park, Fort Lauderdale, FL** – Collected gopher tortoise measurements such as carapace length/width, etc. Observed and took measurements of gopher tortoise burrows.
- **Species Data Collection, Florida Atlantic University, St. Petersburg, FL** – Used trawls, dredges, and plankton nets to collect and identify various marine species as well as collected and recorded data such as temperature, salinity, and dissolved oxygen. Collected sand samples from a variety of depths; dried samples and viewed under microscopes to take data on the biodiversity of species in each sample. Combined biodiversity data into a report and project and presented to colleagues.
- **Threatened & Endangered Species Surveys, DB Ecological, Sea turtle nesting surveys, Fort Lauderdale, FL** – Conducted sea turtle nesting surveys along Fort Lauderdale beach in accordance with FWC protocol for FDOT beach renourishment project. Collected and interpreted nesting data and summarized data into daily reports. Coordinated with contractors as necessary. Assisted with rescue of hatchling and nesting turtles.



Trent Snyder Senior Environmental Specialist

Office Location

Deerfield Beach, FL

Education

- BS, Environmental Science, Humboldt State University, 2015

Special Qualifications/Certifications

- FDEP Qualified Stormwater Management Inspector #49958
- FDEP/ACE Wetland Delineation Training
- Certified Professional in Sediment and Erosion Control #9391
- PADI Rescue Diver, Enriched Air Diver
- SDI Divemaster
- Audubon Everglades member

Trent Snyder holds a Bachelor of Science degree in Environmental Science and has seven years of professional experience in the environmental field. He has worked on projects focusing on marine benthic surveys, biological assessment, stormwater monitoring, GIS mapping, geotechnical soil analysis, bioremediation, environmental permitting, wetland delineation, forestry, and wildlife surveys. Trent has prepared technical reports concerning wetland delineation, environmental resources, essential fish habitat, fish passage design, stormwater pollution prevention, and sensitive species. He has designed site restoration plans, monitoring protocols, Stormwater Pollution Prevention Plans (SWPPP), culvert fish passage designs, and rural road assessments.

PROJECT EXPERIENCE

FDOT District 6 Local Agency Program (LAP) Environmental Compliance, Permit Compliance, FDOT, Miami-Dade County, FL. Trent acts as environmental compliance project manager for all FDOT District 6 LAP projects. He currently oversees 36 construction projects in Miami-Dade and Monroe Counties. Specific tasks include project administration, tracking, environmental permits and commitments, inspection determination, and scheduling. He participates in pre-

construction and environmental kick-off meetings, prepares environmental issues memorandums, staging area reviews, routine inspection and closeout reports, and schedules compliance inspections. He works closely with FDEP staff, contractors, and CEIs to relay and resolve environmental issues and concerns that arise before and during construction activities.

- **Pine Island Road from Griffin to Nova Drive, Environmental Studies and Permitting, Broward County, FL** - The Broward County project involves a new six-lane roadway known as Pine Island Road from Griffin Road to Nova Drive, including one bridge widening, and bulkhead wall along the CBWCD N-12 Canal. Specific responsibilities include leading the environmental review and permitting efforts. The environmental review includes an assessment of listed species surveys, including visual surveys for Florida bonneted bat in addition to wetland delineation, functional assessment, and mitigation bank coordination. Permits include individual USACE/FDEP and SFWMD ERP.
- **West Lake Drive Bridge replacements, FDOT D4 Continuing Services for LAP Project Delivery, Broward County, FL** - The project involves the replacement of three bridges within a residential community along West Lake Drive. Coordinated and led the benthic survey across an approximate 0.3-acre survey area between Lake Sylvia and the Stranahan River. Other tasks included report review, scheduling, and client correspondence.
- **Florida's Turnpike Bridges Concrete Piles Rehabilitation, Environmental Permitting, Florida's Turnpike Enterprise (FTE), St. Lucie County, FL** - The project includes the rehabilitation of concrete piles via pile jack and scour countermeasures at three bridges on Florida's Turnpike. Assisted in the environmental permitting effort, including the US Army Corps of Engineers (USACE) and Florida Department of Environmental Protection (FDEP) dredge/fill permits and SFWMD ROW occupancy permits. Additional activities include wetland impact analysis and marine benthic survey.
- **Pembroke Road Expansion/Miramar Parkway Extension, Environmental Permitting, City of Miramar, Broward County, FL** - The project involves a 5.6-mile road widening and extension that includes widening of Pembroke Road from SW 160th Ave. (Dykes Road) east to SW 196th Ave. from a two-lane road to a four-lane divided roadway and the extension of Pembroke Road from SW 160th Ave. to connect with US-27. Additionally, Miramar Parkway will be extended from SW 192nd Ter. to Pembroke Road. Specific tasks include an approximate 15-acre wetland delineation, listed species assessment, Florida bonneted bat roosting surveys, and environmental permitting, including state Section 404, Environmental Resource Permit, and Broward County Environmental Resource License.
- **Miami I-395/I-95 Reconstruction (Signature Bridge), Regulatory Compliance, Florida Department of Transportation (FDOT) District 6, Miami-Dade County, FL** The project involves a 2.3-mile reconstruction of I-395 from west of NW 17th Avenue to MacArthur Causeway and the 1.6-mile reconstruction of I-95 from NW 8th St. to NW 29th St. to construct a Signature Bridge in downtown Miami. Specific tasks include monthly inspections to ensure compliance with environmental permits and conditions. Coordinate with FDOT District 6, construction engineering and inspection (CEI), and project contractors concerning erosion and sediment control issues. Monthly inspection reports are prepared for the FDOT District 6.

Trent Snyder
Sr Environmental Specialist

- **Savannas Preserve State Park - SUN Trails**, *Environmental Permitting, FDOT District 4, St. Lucie County, FL* - This project involves the design and permitting for an 11.9-mile long, multi-use, paved trail through the Savannas Preserve State Park. The trail will go from SE Walton Road north to the Savannas Recreation Area. Environmental scientist responsible for assisting with the permitting effort, wetland delineation, agency coordination and site visits. Specific tasks include wetland delineation flagging, GIS mapping, wetland acreage calculations, agency coordination, and report preparation.
- **Singer Island Grand Bahama Bridge Seawall Replacement**, *Marine Benthic Survey, City of Riviera Beach, Palm Beach County, FL* – Completed marine benthic survey to determine the presence, absence, and general distribution of seagrass and other marine benthic resources adjacent to a proposed seawall replacement at Singer Island. Conducted underwater transects utilizing scuba equipment to document benthos across an estimated two-acre area and prepared a marine resources report.
- **Islamorada Habitat Mapping**, *Islamorada Village of Islands, Monroe County, FL* – The project involved mapping historic land use cover against existing conditions to quantify the loss of natural areas from 1945 to 2022 across Islamorada. Using GIS software and ground-truthing, completed habitat cover assessments for four islands within Islamorada, including, Plantation Key, Windley Key, Upper Matecumbe Key, and Lower Matecumbe Key. Trent acted as the environmental lead to prepare estimates for tropical hardwood hammock and mangrove forest coverage before development and compared them to existing habitats in 2022 to identify changes in distribution. Prepared maps of each island that compared pre-developed forest distribution to current conditions and prepared a report to present the analysis findings.
- **Million Air Remodel**, *Marathon Airport (MTH), Monroe County, FL* - The project includes the re-development of portions of the Marathon Airport, including new hangars, ramp improvements, aircraft stand improvements, connector improvements to the taxiway, relocation of the fuel farm, and a new FBO building. Specific stakes included fieldwork for wetland and endangered species identification for an approximate 27-acre work area and, desktop review, and report preparation concerning environmental resources that may be adversely affected by the project, advised the developer on required environmental permissions and permits.
- **PKH Runway Improvements at Palm Beach County Glades Airport (PKH)**, *Wildlife Surveys, Palm Beach County Department of Airports (PBC DOA), Glades County, FL* – Completed wildlife surveys in accordance with Florida Wildlife Conservation Commission (FWC) Species Conservation Measures and Permitting Guidelines for the Florida Burrowing Owl to document potentially occupied burrows and abandoned burrows, as well as the number of adults/pairs observed.
- **Indian River Lagoon South C-23/24 Stormwater Treatment Areas**, *Gopher Tortoise Surveys, USACE, St. Lucie County, FL* Project to include construction of a 410-acre stormwater treatment facility west of County Road 613 and 1,560-acre stormwater treatment facility east of County Road 613. Conducted 100% gopher tortoise survey for an approximately 300-acre area and a 15% survey across a 110-acre area, documenting 41 potentially active burrows.
- **CERP L-31 E Flow-way Pump Stations S-710 and S-711, and Seepage Canal C-711W**, *Environmental Monitoring, USACE, Miami-Dade County, FL* – The project involves the construction of Pump Stations S-710 and S-711, spreader systems, a seepage canal (C-711W), with an associated berm and the installation of a riser board assembly on the culvert located on the south bank of C-103. CECOS assisted in preparing the Environmental Protection Plan (EPP) and provided pre-construction wildlife and botanical surveys, wildlife monitoring, turbidity monitoring, and wildlife closeout report preparation and submittal. Specific tasks include project management responsibilities concerning monitoring migratory birds, invasive species, protected marine species, and turbidity.
- **CERP L-31E Flow Way Pump Station S-703 and Recreational Sites**, *Environmental Monitoring, USACE, Miami-Dade County, FL* – The project includes constructing one electric power pump station designated as S-703, a spreader system, and two recreational sites. CECOS assisted in preparing the Environmental Protection Plan (EPP) and provided pre-construction wildlife and botanical surveys, wildlife monitoring, turbidity monitoring, and wildlife closeout report preparation and submittal. Specific tasks include project management responsibilities concerning monitoring migratory birds, invasive species, protected marine species, and turbidity.



Kevin Cash, M.S. Environmental Specialist

Education

- B.S. Marine Biology, Nova Southeastern University, 2017
- M.S. Marine Biology, Nova Southeastern University, 2021

Special Qualifications/Certifications

- FDEP Stormwater Management Inspector #49803
- Phase I Environmental Site Assessment
- FAEP Wetland Delineation Training
- FAEP Advanced Hydric Soils Workshop
- SFAEP Water Quality and FDEP SOP Training Workshop
- Burrowing Owl Registered Agent (RAG-22-0040)
- AAUS Scientific Diver (#32088)
- PADI Dive Master #435208; Nitrox Diver; Underwater Photography
- Red Cross CPR/First Responder/AED

Kevin Cash holds a Master of Science degree in Marine Science with a concentration in Marine Biology and has four years of environmental experience. His experience within the environmental field includes the teaching of multiple survey techniques on land and underwater. He has several years of experience working in both laboratory and field settings; designing research projects, defending research findings, analyzing and collecting data. He has experience with CECOS, conducting multiple wetland delineations, benthic surveys and wildlife surveys, including gopher tortoise surveys, Florida bonneted bat tree surveys, and Florida burrowing owl surveys. He has experience writing and reviewing required NEPA support documents, aiding in permit application, and is proficient in GIS work.

EXPERIENCE

Flagler Street Demonstration PD&E Study, NEPA Documentation, Florida Department of Transportation (FDOT) District 6, Miami-Dade County, FL - This FDOT District 6 project involves improvements to Flagler St. and SW 1st St. from approximately NW 27th Ave to SW 6th Ave by implementing a Business Access and Transit (BAT) Lanes by repurposing an existing travel lane between the existing project limits. Prepared the Contamination Evaluation Screening Technical Memo and conducted desktop and field reviews. Created figures for all required National Environmental Policy Act (NEPA) documents, including the Natural Resources and Environment (NRE) Report, Social Cultural Effects (SCE) Evaluation Report and Contamination Evaluation Screening Report (CESR).

East-West Corridor Metrorail Extension Project Development and Environment (PD&E) Study, Miami-Dade County Department of Transportation and Public Works (DTPW), Miami-Dade County, FL - This project involves the evaluation of potential environmental impacts of the BRT alternative in support of the PD&E Study for the proposed East-West transit Corridor. Conducted desktop review on protected species. Assisted with preparation of GIS maps for the Natural Resources Evaluation Report and Contamination Screening Evaluation Report.

- **Quail Roost PD&E Study (Contamination Screening and Evaluation Report), FDOT District 6, Miami-Dade County, FL** - This project involves the widening and resurfacing of Quail Roost Drive. Environmental Scientist: Conducted field review of the project corridor, including conducting interviews at potentially contaminated site locations, as well as preparing GIS figures for the PD&E documentation.
- **West Lake Drive Bridge Replacements, FDOT D4 Continuing Services for LAP Project Delivery, Broward County, FL** - This LAP project involves the removal and replacement of three residential bridges located across the connection of the Stranahan River and Lake Sylvia. Environmental Scientist: Conducted benthic surveys from a boat along established transects at each of the three bridges, identifying various benthic resources (seagrass, corals, sponges, and oysters). Mapped findings for inclusion in the future permitting processes.
- **Districtwide Local Agency Program (LAP) Environmental Construction Compliance Monitoring, Permit Compliance, FDOT 6, Miami-Dade & Monroe Counties, FL** - This FDOT project involves over 30 ongoing construction projects throughout Miami-Dade and Monroe Counties. Conducts regular inspections, including pre and post construction inspections of entire project corridors and proposed staging areas. Coordination with FDOT, contractors, and CEI's to ensure projects are within compliance of any applicable permits.
- **I-95 at Northlake Intersection, Environmental Permitting, FDOT District 4, Palm Beach County, FL** - Environmental Scientist: conducted field review of Earman Canal to determine presence / absence of aquatic vegetation within project impact area. Survey of canal banks to determine if burrows and/or gopher tortoise were present.

Kevin Cash, M.S.
Environmental Specialist

- **Pembroke Road Expansion, Wetland Delineation/Wildlife Surveys, City of Miramar, Broward County, FL** - This project involves the widening of Pembroke Road from two to four lanes including landscaping, irrigation, drainage improvements, and noise walls. Performed wetland delineations, conducted Florida bonneted bat tree surveys, and general protected species surveys including wood stork, eastern black rail, snail kite and bald eagle.
- **Turnpike Widening from Sawgrass Expressway to Glades Road, Environmental Permitting, Florida's Turnpike Enterprise (FTE), Broward and Palm Beach Counties, FL** – This FDOT project involves widening of the Turnpike Mainline (SR 91) from the existing six lanes to eight lanes from north of Sawgrass Expressway/SR869 (MP 71.8) to north of Glades Road (MP 76.6). Environmental scientist: conducted field review to document presence / absence of wetlands and listed species.
- **Pine Island Road from Griffin to Nova Drive, Environmental Permitting, Broward County, FL** - This project was designed to create a new six-lane roadway including one bridge widening, pavement marking and signing plans, five signalized intersections, lighting plans, bulkhead wall along the CBWCD N-12 Canal and archeological assessment. Conducted field review of project corridor, assessing trees for potential roosting habitat for Florida bonneted bat. Prepared the Phase I contamination assessment, including creating GIS figures. Assisted with preparation of the SFWMD ERP application.
- **Habitat Mapping, Monroe County FL** – This project involves the detailed mapping of current and historic land use for the four inhabitable islands that make up the Village of Islamorada. Responsibilities included conducting Normalized Difference Vegetation Index (NDVI) analysis to determine the vegetative state of privately versus publicly owned parcels of mangrove communities, tropical hardwood hammock, and disturbed regions. Write up of finalized report documenting our findings.
- **Low Stress Multimodal Mobility Transportation System Master Plan, Environmental Planning/Environmental GIS preparation, Broward County, FL** – This project involves the development of the Broward County Low Stress Master Plan, conducting a countywide master planning effort, including data collection and analysis; planning; resiliency; feasibility; and conceptual design(s) to integrate bicycling, walking, and use of personal conveyance devices into the transportation mainstream. This project aims to enhance utilization, resiliency, mobility, accessibility, and connectivity of the low stress multimodal mobility transportation system. Environmental planning and GIS specialist: Conducted initial county wide analysis for a multitude of environmental considerations, including existing trails, ecological features (wetlands, parks/conservation areas/mitigation banks/other natural areas), Historic and contaminated sites, and future considerations (storm surge and flood zones, coastal construction control and high hazard areas). Developed resiliency matrix criteria for environmental features.
- **Safety Improvements to Southern Connector (SR-417) Existing Roadway Condition Assessment Report (ERCAR), Environmental/Wildlife Surveys, FTE, Osceola and Orange Counties, FL** – This FTE project involves the detailed analysis of the existing conditions with respect to design standards and safety of the roadway, bridges, drainage, pavement markings, signs, and miscellaneous project components. Environmental Scientist: Conducted desktop and field review of environmental concerns and potential permits required for proposed improvements. Conducted presence/absence surveys for burrowing owls, gopher tortoises, and other listed species.
- **Safety Improvements to Suncoast Parkway (SR-589) Existing Roadway Condition Assessment Report (ERCAR), Environmental/ Wildlife Surveys, FTE, Pasco County, FL** – This FTE project involves the detailed analysis of the existing conditions with respect to design standards and safety of the roadway, bridges, drainage, pavement markings, signs, and miscellaneous project components. Environmental Scientist: Conducted desktop and field review of environmental concerns and potential permits required for proposed improvements. Conducted presence/absence surveys for burrowing owls, gopher tortoises, and other listed species.
- **Turnpike Rehabilitation Concrete Piles Bridges for the C-24 Canal, Marine Benthic & Wildlife Surveys, FTE, St. Lucie County, FL** – This Turnpike project involves preparation of construction plans for the rehabilitation of the concrete piles through the use of pile jackets and scour countermeasures at three different bridge sites. Surveyed the proposed construction areas for Gopher Tortoise burrows, burrowing owls and potential bat roosting, including creation of GIS maps of the gopher tortoise burrow locations within the project area. Conducted benthic survey / reconnaissance outing to determine viable survey locations, coordinated with South Florida Water Management District pertaining to the utilization of their right of way access, and prepared a technical memo for the benthic survey results.
- **SUN Trail - Savannas Preserve State Park Gap, Wetland Delineation, FDOT District 4, St. Lucie County, FL** - This project involves construction of an 11.9-mile-long paved trail through the Savannas Preserve State Park. Environmental Scientist: assisted with conducting wetland delineations, mapping wetlands and other surface waters near the project location. Determined area of impact regarding specific wetland and other surface waters.

Electrical Design Associates



Electrical Design Associates



Dameion Donaldson, P.E.

Engineer

Mr. Donaldson is the chief electrical engineer for Electrical Design Associates, Inc., and has 18+ years of experience in various projects within the private and public sectors. He 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.

Experience:

Mr. Donaldson has been involved in the electrical system design on a variety of projects including, but not limited to:

- Lift Station 309
Boynton Beach, FL
- System Wide Wellfield Improvements
Palm Beach County, FL
- WTP Wells 10, 11, 12 & 13 Upgrades
City of Tamarac, FL
- Westport WWTP Expansion
Port St. Lucie, FL
- WRF Influent Pumping & Headworks Imps
Largo, FL
- Boca Wells 35W, 36W and 37W Improvements
Boca Raton, FL
- Riviera Beach Evaluation
Riviera Beach, FL
- Northwest Neighborhood Improvements
Delray Beach, FL

Academic Credentials:

Bachelors of Science in Electrical Engineering
Florida International University, 2003

Professional Engineer – Florida 70851
Copy of PE license included in Forms Section

Employment Record:

2011-Present: Electrical Design Associates,
Inc.
President

2009-2011: Lea & Elliot, Inc.
Electrical Project Engineer

2008- 2009: Gers USA Consulting
Electrical Engineer

2006-2008: Electrical Design Associates,
Inc.
Electrical Engineer

2004-2005: Ivax Research, Inc.
Electrical Project Engineer

Principal Areas of Expertise:

Electrical Design of Power Distribution,
Lighting, and Fire Alarm Systems for
Environmental, Municipal and Commercial
Projects

Electrical Cost Estimating
Testing and Commissioning

Professional Activities:

Florida Engineering Society (FES)
Institute of Electrical & Electronics Engineers
(IEEE)
IEEE Power and Energy Society

3. Past Experience

Town of Highland Beach, FL Lift Station #3 Upgrades

SERVICES:

- Engineering Design
- Permit Application
- Bidding Services
- Construction Administration

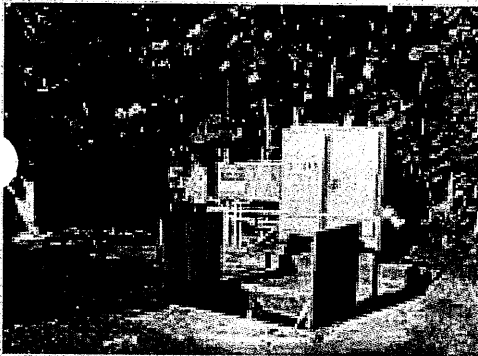
COMPLETED:

Design Completed 2023
In Construction

The Town of Highland Beach hired Baxter & Woodman to perform rehabilitation of their existing duplex submersible Lift Station No. 3, including the design for the replacement of the existing control panel and replacement the of mechanical components within the valve vault. In addition the top slab of the wet well and valve vault were elevated to address station resiliency.

The improvements also included upgrading the station level control system to a pressure transducer level control system with a high water level alarm backup float. In coordination with raising the wetwell and valve vault, the site will be regraded and the driveway extending from the adjacent SR A1A will be replaced. The project includes permitting with the FDOT for work in their ROW and requirements for contractor provision of station bypass pumping.

Baxter & Woodman will be providing construction administration and inspection services for the construction which begins in early 2024.



TOWN OF HIGHLAND BEACH REHABILITATION OF LIFT STATION No. 3

AS BIDD FOR CONSTRUCTION
NOVEMBER 2023

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FOR REVISIONS, CONTACT THE DESIGN ENGINEER

DATE OF REVISION: 11/15/23

DESIGNER: BAXTER & WOODMAN

PROJECT NO.: 23-001

BAXTER & WOODMAN

ENGINEERS & ARCHITECTS

10000 W. BOULEVARD

DADE COUNTY, FLORIDA 33156

DATE: 11/15/23

BY: [Signature]

CHECKED: [Signature]

SCALE: AS SHOWN

BAXTER & WOODMAN
ENGINEERS & ARCHITECTS

BAXTERWOODMAN.COM

Town of Highland Beach, FL

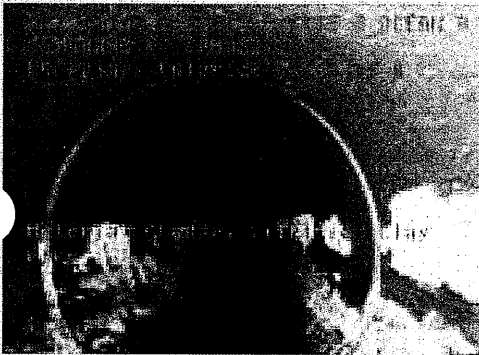
Gravity Sewer Main Improvements

SERVICES:

- Prepare Contract Documents
- Bidding Assistance
- Construction Administration

COMPLETED:

2022



Still shots of televised inspection from inspection report.

The Town of Highland Beach provides wastewater collection service through a system of gravity sewer mains along State Road A1A (SR A1A). The south end of the system is approximately 0.10 miles south of the intersection of SR A1A and Grand Court and the north end of the system is approximately 0.55 miles south of the intersection of SR A1A and Linton Boulevard. The system consists of various types of pipe material and sizes ranging from 6-inch to 18-inch diameter with an approximate total length of 16,000 linear feet.

Baxter & Woodman prepared the contract documents detailing the proposed work which required utilizing closed circuit television (CCTV) inspection methodologies. The survey determined the general condition of the sewer mains and a limited number of laterals to assess defective pipe sections, the location of obstructions, root penetrations, defective service laterals (as appropriate) and identify unknown lateral sewer connections. Baxter & Woodman then assisted the Town in the bidding of the project by preparing the bid advertisement, conducting the pre-bid conference, provide bid clarifications/addenda, and provide a written recommendation of contract award.

Baxter & Woodman then performed contract administration on the project. Performing kick-off and regularly scheduled progress meetings, reviewing shop drawing submittals, contractor schedules, contractor pay applications, requests for additional information, and contract closeout. Baxter & Woodman summarized the findings from the investigation and provided recommendations for mediation of the gravity sewer mains and the methodology.

Town of Lantana, FL

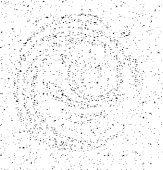
US-1/SR-5/Dixie Highway

SERVICES:

- Roadway and Drainage Improvements
- Sidewalk Repairs
- Pedestrian Traffic Signal Upgrades
- Signing and Pavement Marketing Improvements
- Agency Coordination
- Public Outreach

COMPLETED:

2018



Baxter & Woodman provided design engineering services for improvements of Dixie Highway from North of Hypoluxo Road to 300 Feet South of Waterway Drive. The project consisted of milling and resurfacing the pavement to extend the service life of the roadway; developing drainage design to alleviate ponding; repairing sidewalks and upgrading pedestrian curb cut ramps to conform to Americans with Disabilities Act (ADA); upgrading pedestrian traffic signals; replacing inductive loops with video detection system; and upgrading signing and pavement markings throughout the project limit.

Coordination was necessary with local municipalities, evaluating needs and demands from stakeholders, meeting with local officials and their consultants, conducting public outreach and workshop, securing and procuring certifications such as utilities and right of way, performing phase review submittals, answering to phase review comments and leading the project through the delivery process.

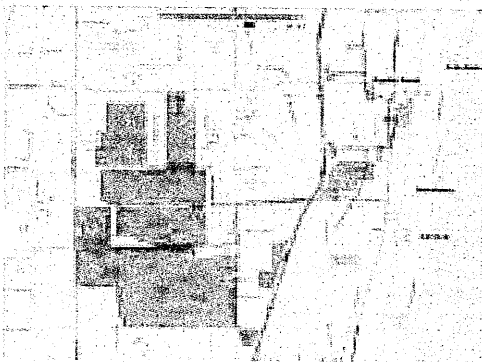
City of Boynton Beach, FL Reclaimed Water Planning Assistance

SERVICES:

- Data Collection & Review
- Regulatory Coordination

COMPLETED:

2023



Baxter & Woodman assisted the City of Boynton Beach with an assessment report to serve as an update to historic assessments and reclaimed water (RW) expansion efforts, to assist the City in planning out future RW expansion projects, and to comply with the Florida Department of Environmental Protection's (FDEP) 2008 Ocean Outfall Elimination Law (OOEL).

Baxter & Woodman reviewed the City's historical records to validate connected RW users, and identify proposed users best for future connection. Proposed users were assessed for user parcel size, location, type of ownership, permit status, and fiscal investment. The City's list of future users was first proposed in Mathew Consulting's (now Baxter & Woodman) 2014 FDEP Ocean Outfall Report Progress Update and later built upon by Carollo Engineering's 2020 RW Expansion Report. Baxter & Woodman composed a list of remaining proposed RW users, adding proposed RW users stemming from our assessment. A summary description and cost estimate in 2022 dollars was provided for each project, and a final comparison of the cost per gallon per day (GPD) of RW was created for the City's consideration. The City currently has six infrastructure improvement projects to implement into their RW system. The calculated RW usage from these projects and users totals 0.390 MGD.

Baxter & Woodman also examined the 2008 Ocean Outfall Elimination legislation. Pulling information from the SCRWWTP historical flow data, workshop help with City staff, and discussions held between the FDEP and the Cities of Delray and Boynton Beach; we assessed the fiscal feasibility of the City's RW distribution system complying with the OOEL by the December 31, 2025 deadline. The City is required to meet the RW usage goal of 3.85 MGD by the deadline and has added 0.581 MGD from projects completed between 2008 and 2021. This means the City has 3.269 MGD of RW flow left to meet the OOEL requirements. Through our review of the existing data, Baxter & Woodman identified 13 new RW users the City can pursue.

Baxter & Woodman also assisted the City in meetings with the Florida Department of Environmental Protection (FDEP) and South Florida Water Management District (SFWMD), and prepared written documentation for submission to both agencies.

City of Boynton Beach, FL North & South Roads Drainage Improvements

SERVICES:

- Drainage Improvements
- Storm Sewer Improvements
- Pavement Improvements
- Agency Coordination
- Progress Meetings

COMPLETED:

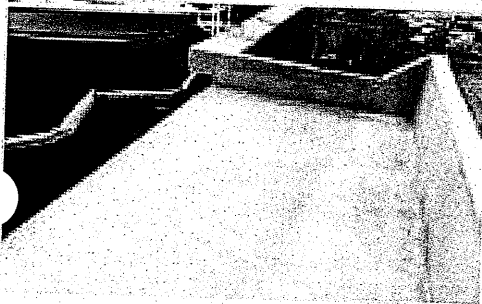
2017

Baxter & Woodman provided design engineering and construction services for the 11.6 acre area extending from US Highway 1 to the Intracoastal Waterway, between North Road and South Road in the City of Boynton Beach. The overall project area consisted primarily of existing single-family residential neighborhoods and existing commercial land uses.

Stormwater runoff from the project area ponded in low lying areas and overflowed into the adjacent mangroves and Intracoastal Waterway via overland flow and direct culvert discharge.

The surface water management system serving the 11.6-acre area consists of inlets and culverts that convey runoff to gravity sewers discharging into the Intracoastal Waterway via 36-inch diameter culverts.

The work included design, bidding, and construction services for drainage and paving improvements.



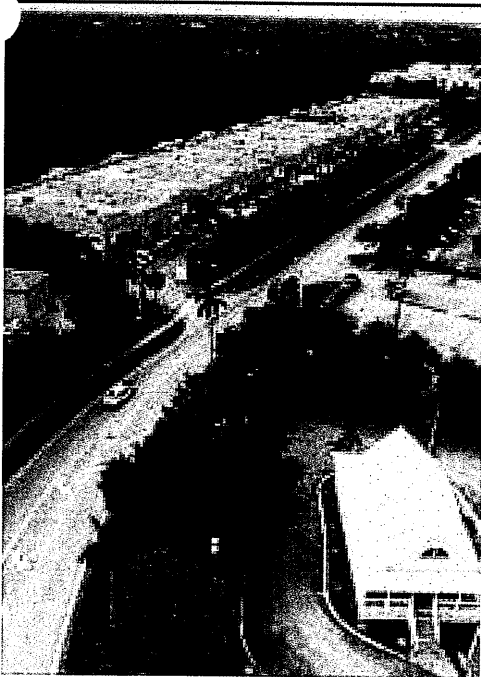
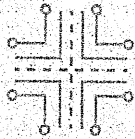
City of Boynton Beach, FL High Ridge Road Concept Study

SERVICES:

- Project Initiation & Data Collection
- Traffic & Accident Analysis
- Alternative Analysis
- Concept Design of Preferred Alternative
- Grant Application Assistance
- Meetings & Public Involvement

COMPLETED:

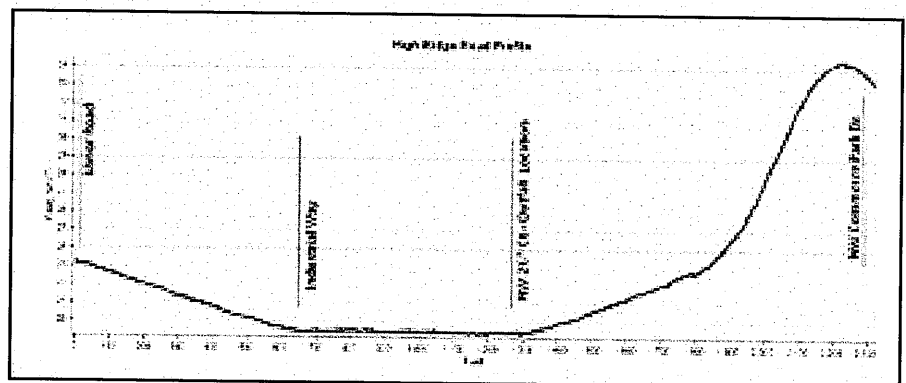
2021



Baxter & Woodman provided the preparation of conceptual plans, a conceptual cost estimate, and grant application assistance for an application to the Palm Beach Transportation Planning Agency (TPA) for High Ridge Road from NW Commerce Park Drive to Miner Road.

The existing cross-section of High Ridge Road consisted of four lanes, two lanes in each direction, separated by a landscaped median from NW Commerce Park Drive to NW 25th Avenue. High Ridge Road then transitions from four lanes to two lanes, one lane each direction, with left turn channelization at the Industrial Way and Miner Road intersections. In addition, Baxter & Woodman coordinated with Palm Beach County Engineering regarding their planned improvements for a roundabout design at the High Ridge Road/Miner Road Intersection.

The improvements consist of milling and resurfacing the pavement and maintaining the existing four lanes and landscaped median along High Ridge Road from NW Commerce Park Drive to 25th Avenue. Existing trees were removed from the landscaped median and replaced with low growing shrubs to improve sight distances. Between 25th Avenue to Miner Road, a four lane section is proposed with pedestrian pathways, while maintaining left turn channelization at the intersections. Exfiltration trench and inlets provided stormwater management and treatment.



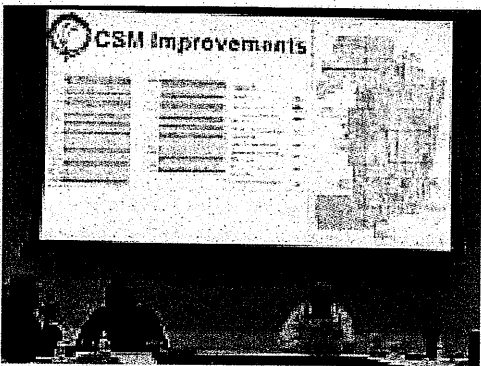
City of Boynton Beach, FL Complete Streets Mobility Plan & Mobility Plan

SERVICES:

- Complete Streets
- Mobility Plan
- Mobility Fee

COMPLETED:

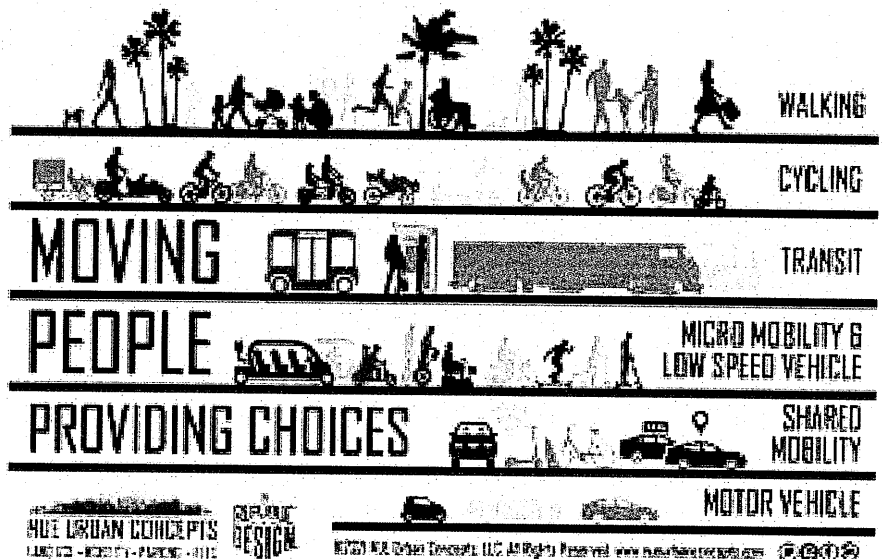
2021



As communities struggle with providing an adequate level of service for urban roadways without limiting growth, the City of Boynton Beach is looking towards alternative solutions to provide mobility by means other than additional road capacity and to allow infill and redevelopment in urban areas. As an alternate to Palm Beach County's transportation concurrency, proportionate fair-share and road impact fees, the City requested Baxter & Woodman prepare a Mobility Study and determination of a Mobility Fee.

Baxter & Woodman teamed with NUE Urban Concepts to provide services in two phases. The first task was to complete a Mobility Plan for areas within the City limits to serve as the legal basis and foundation for pursuit of multimodal transportation improvement funding. This effort was followed by development of a Mobility Implementation Plan, which established the associated mobility fees required to support the recommended improvements.

The Mobility Plan coordinated with the City's Future Land Use Element of the Comprehensive Plan; assigned Quality of Services ratings for roadways and sidewalks; projected growth; and developed differential cost estimates for over 25 mobility improvement projects. The mobility fee was calculated to make up for funding shortfalls, assuming a planning horizon through the Year 2045.



NUE URBAN CONCEPTS
LAND USE - MOBILITY - PLANNING - DESIGN

RE-PLANNING
DESIGN

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City of Boynton Beach, FL

NE 3rd Street Roadway & Utility Improvements

SERVICES:

- Data Collection
- Design Services
- Permitting Services
- Bidding Services
- Construction Administration Services
- Construction Inspection

COMPLETED:

2020



Baxter & Woodman assisted the City of Boynton Beach with engineering services for the NE 3rd Street Roadway and Utility Improvements project. With the goal of extending NE 3rd Street from NE 9th Avenue approximately 300 LF to connect to East Martin Luther King Jr Boulevard (NE 10th Avenue), the infrastructure improvements consisted of:

- Conversion of an unimproved 5-foot right-of-way section into a full roadway
- New sidewalk, curb and gutter
- Side street parking
- New 8-inch water main
- New 8-inch gravity sanitary sewer
- Roadway striping & signage
- Stormwater improvements
- Street lighting
- Sidewalk along north side of NE 9th Ave between NE 3rd St and Railroad Avenue
- Design services for a new 12" water main on NE 9th Avenue from NE 1st Street to Railroad Avenue (approximately 1,513 linear feet)
- Landscaping and irrigation design services
- Design and permitting of street drainage
- Connection of a proposed 8" water main in the new NE 3rd St R/W that will tie into the existing 6" water mains along both NE 10th Ave and NE 9th Ave

City of Boynton Beach, FL

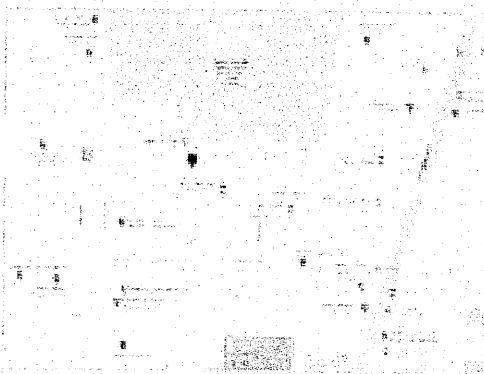
Greyson Heights Sidewalk Conceptual Design & Grant Funding Assistance

SERVICES:

- Data Collection
- Grant Application Assistance
- Preliminary Design Services
- Public Outreach

COMPLETED:

2021



Project Area

Baxter & Woodman assisted the City of Boynton Beach with developing concept plans for the design of a sidewalk infill project in the Greyson Heights neighborhood. The City of Boynton Beach recognized the Grayson Heights Neighborhood as one of the few City-owned road rights-of-way's without sidewalks for safe pedestrian travel. The City aimed to enable safe, convenient and comfortable travel and access for users of all ages and abilities regardless of their mode of transportation.

The project consisted of the preparation of conceptual plans, a conceptual cost estimate, and grant application assistance for an application to the Palm Beach Transportation Planning Agency (TPA) for the proposed sidewalk improvements.

The streets within the project area are as follows:

- SE 35th Avenue from S. Seacrest Boulevard to SE 1st Street
- SE 34th Avenue from SE 1st Street to SE 2nd Court
- SE 1st Street from SE 34th Avenue to SE 36th Avenue
- SE 2nd Street from SE 34th Avenue to SE 36th Avenue
- SE 2nd Court from SE 34th Avenue to SE 36th Avenue

The following improvements are proposed for Grayson Heights Neighborhood:

- Installation of ADA-compliant 5-foot wide sidewalks within the City's road rights-of-way
- Installation of ADA-compliant ramps at roadway crossings
- Replacement of driveway aprons within the City's right-of-way with new concrete aprons

City of Boynton Beach, FL Lakeside Gardens Drainage Improvements

SERVICES:

- Design Engineering & Construction Management
- Drainage Pipe
- 25 Drainage Structures
- New Gravity Outfall

COMPLETED:

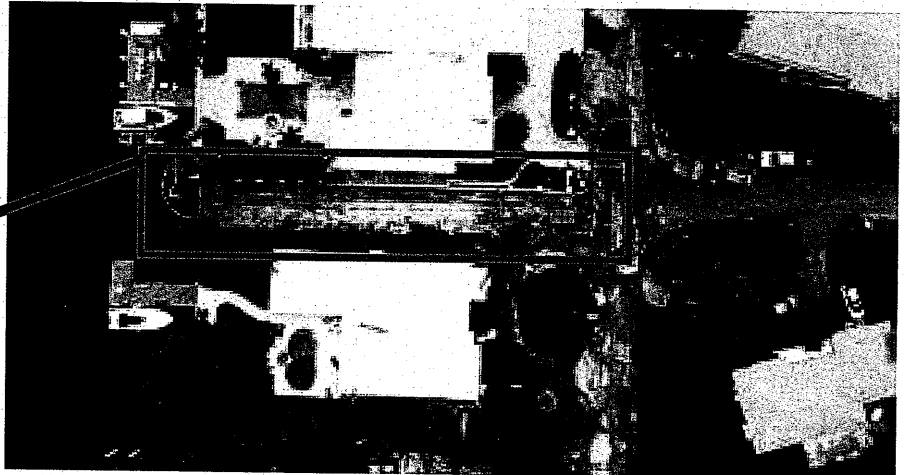
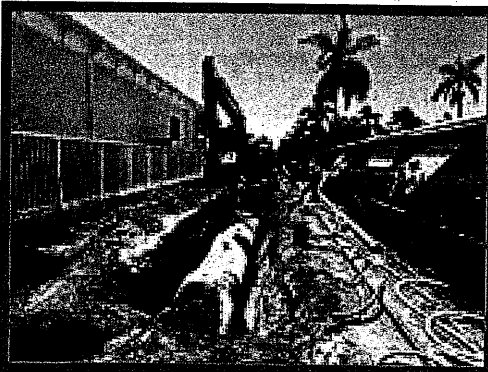
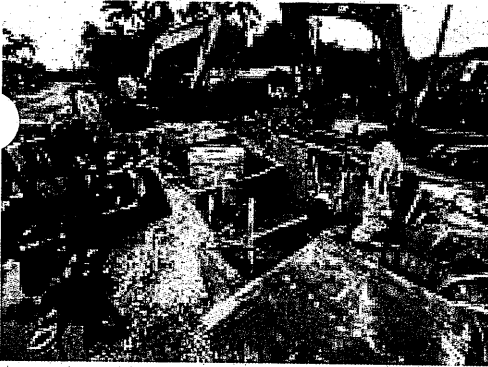
2021

Baxter & Woodman was awarded engineering services including successor engineering, constructability review, value engineering, permitting, bidding assistance, and construction management and part-time inspection services.

The project was previously engineered by others including the 100% design phase drawings, technical specifications, estimated construction schedule, and cost estimate. The major work items for the project include the design of approximately 1,600 linear feet (LF) of drainage pipe, 25 drainage structures, a new gravity outfall, a discharge pipe for a portable emergency stormwater pump, and 1,130 LF of water main replacement. Ancillary items associated with the construction of the stormwater management system include but are not limited to sanitary and water service line adjustments, driveway replacements, curbing, roadway widening and restoration, and erosion control measures.

The project included the following streets in the Lakeside Gardens Community:

- Dimick Road
- Potter Road
- North Lake Drive
- Connections at North Federal Highway



City of Boynton Beach, FL

Rolling Green Stormwater & Water Main

SERVICES:

- Complete Streets
- Mobility Plan
- Mobility Fee

COMPLETED:

2010

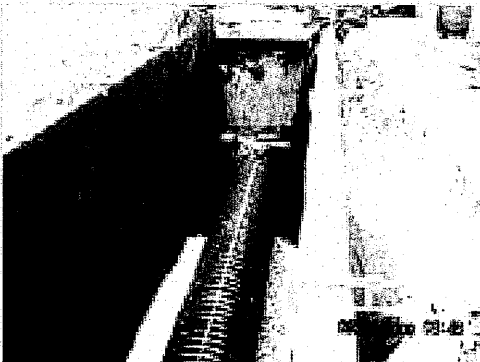
The City of Boynton Beach identified the NW 17th Avenue Stormwater and Water Main Improvement Project to be completed under the City's 2010-2011 Capital Improvement Plan (CIP). The City requested Mathews Consulting (now Baxter & Woodman) to provide design, permitting, construction administration and full time inspections for the project. The project was executed using the traditional design, bid, and construct method.

Specific project elements included:

- Stormwater improvements via exfiltration trench and swale development
- 30,000 LF of 8" water main upgrades
- 30,500 LF of pavement resurfacing

Design Components of the project included:

- Review available record drawings of the project area
- Coordinate with Surveyor
- Investigate subsurface conditions
- Coordinate underground utilities with FP&L, BellSouth, Public Gas Company, and Cable TV
- Prepare detailed design drawings
- Prepare specifications
- Prepare all required permit applications (FDOT, PBCHD, and SFWMD)



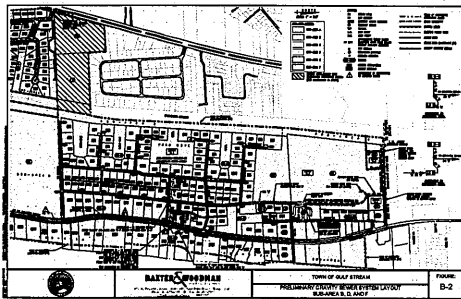
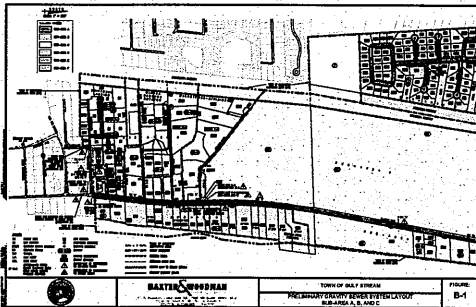
Town of Gulf Stream, FL Wastewater Feasibility Study Update

SERVICES:

- Evaluate Service Area & Wastewater Flows
- Preliminary Layout & Design
- Preliminary Capital Cost Evaluation

COMPLETED:

2020



Drawings of sewer layouts.

Baxter & Woodman completed a Wastewater Feasibility Study for the Town of Gulf Stream in 2002, which evaluated the feasibility of installing a wastewater collection system throughout the Town's service area. In 2020, the Town requested Baxter & Woodman update the report to reflect today's current design standards and construction costs.

Baxter & Woodman re-evaluated two options for centralized wastewater collection systems that included gravity and low pressure sewer systems. Our team also proposed a third option, vacuum sewer systems. Baxter & Woodman also re-evaluated multiple possibilities to transmit wastewater through the City of Boynton Beach, City of Delray Beach, and/or a combination of the two cities' wastewater systems ultimately to the South Central Regional Wastewater Treatment Plant. The Town of Gulf Stream corporate limits consists of 514 acres of primarily single family and multi-family developments with approximately 800 residents.

The project consisted of evaluating the service area and wastewater flows, including future growth and buildout conditions to establish future service area conditions, and to estimate wastewater flows for existing and future conditions. The project also consisted of providing a preliminary layout and design of wastewater collection systems for the Town's service area; preliminary capital cost evaluation for the proposed system layouts and flow routing options; identifying potential regulatory impacts to constructing a new wastewater collection system; and developing a final report documenting the results.

Town of Lauderdale-By-The-Sea, FL Palm Club Sanitary Sewer Improvements

SERVICES:

- Design Engineering of Septic-to-Sewer System
- Permitting
- Public Involvement
- Construction Engineering Inspection

COMPLETED:

2022



The Town of Lauderdale-By-The-Sea contracted with Baxter & Woodman to provide data collection, engineering design, permitting, public participation and coordination, bidding assistance, construction administration, and construction inspection services related to sewerage of the Palm Club neighborhood. Baxter & Woodman provided design services for a conventional gravity sewer system that collects the wastewater and conveys it to a new lift station located near the Marina. The lift station force main piping pumps the wastewater to an existing 18-inch force main located in S.R. A1A. The project included the following components:

- New submersible lift station, including installing a wet-well, pump components, piping, valve box, valving, and control panel
- Electrical telemetry/RTU design provided for the lift station
- New 4-inch force main. The proposed force main will connect into the 18-inch force main located in S.R. A1A
- New 8-inch sanitary sewer, manholes, and service laterals to serve the project area
- Reconstruction/resurfacing of roadways as required

Approximately 100 residential units currently on septic tanks were sewerage under this project. This is an environmental credit to the Town for sewerage an area in close proximity to the Intracoastal Waterway.

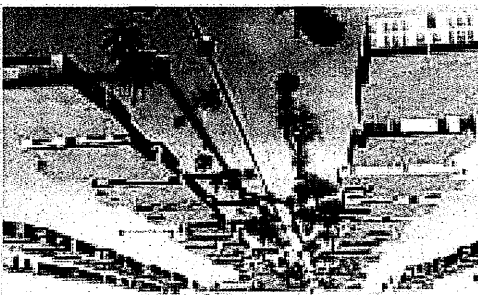
Town of Lauderdale-By-The-Sea, FL Codrington Drive Drainage Improvements

Services:

- Survey
- Geotechnical Engineering
- Preliminary Engineering
- Data Collection
- Public Outreach
- Design and Permitting
- Construction Management

Completed

2023



Codrington Drive is a mostly residential street located at the southern end of the Town of Lauderdale-By-The-Sea, west of A1A. The street and several backyards have experienced frequent flooding. The land was developed in the 1950s with the drainage being served by a single 12-inch CMP pipe. Baxter & Woodman performed Town-wide modeling associated with the Town's Stormwater Master Plan and recommended the replacement of the 12-inch pipe with a 30-inch pipe with a series of pipes to collect the runoff within the street.

During design, it was decided that it would not be feasible to replace the 12-inch pipe, which is located between two homes, because of the potential adverse impacts to the buildings. The new 30-inch outfall pipe was instead located on an undeveloped lot within a cul-de-sac at the west end of the street, for which the property owners granted an easement.

Services included:

- Survey (Topographic and Drainage Easement Sketch/Legal)
- Geotechnical – Organic Soils Found and Quantified for Removal
- Preliminary Engineering with ICPR4 Modeling
- Drainage System Design of 1,700 linear feet of pipe
 - Sea Level Rise Evaluation
 - Inline Check Valves Utilized
 - System Designed for Future Pump Station
- Water Quality (swales) and Landscaping Improvements Included
- Permitting with Broward County, SFWMD, and USACOE
- Public Outreach
- Full Construction Management Services
- Project Certification

Town of Lauderdale-by-the-Sea, FL Pavement Condition Study

SERVICES:

- Database
- Photographic Log
- Pavement Surface Evaluation
- Pavement Rehabilitation Strategy
- Cost Estimates

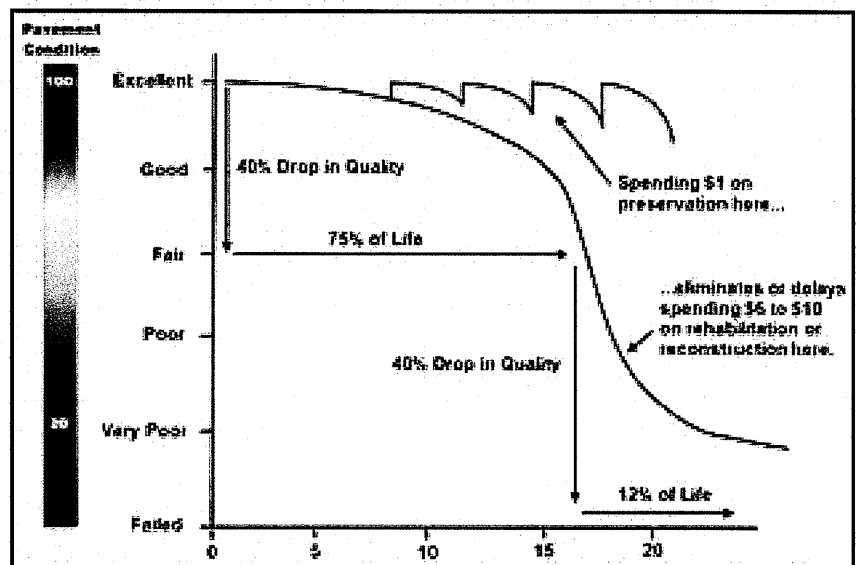
COMPLETED:

2021

The Town of Lauderdale-by-the-Sea authorized a pavement condition survey to assess the state of the Town's streets, and to develop an economical and workable street program to maintain their streets over the next several years. The primary goal of a successful pavement management plan is to proactively rehabilitate streets on a schedule that targets repairs before pavements approach the end of their useful life - where pavements rapidly decline and become far more expensive to rehabilitate. This strategy is the most effective use of the Town's allocated street budget regardless of the budget amount.

The Town commissioned Baxter & Woodman to reassess the condition of the Town's street network and produce a pavement condition survey. Work tasks included:

- Develop a current inventory of street information in a database that is easy to access and update.
- Collect photographic log utilizing a truck-mounted GoPro.
- Evaluate each street section and assign a Pavement Surface Evaluation and Rating (PASER) value.
- Identify pavement rehabilitation strategy for each street section.
- Estimate the costs of recommended improvements.
- Analyze the effectiveness of the Town's current and future street improvements annual budget.



City of West Palm Beach, FL

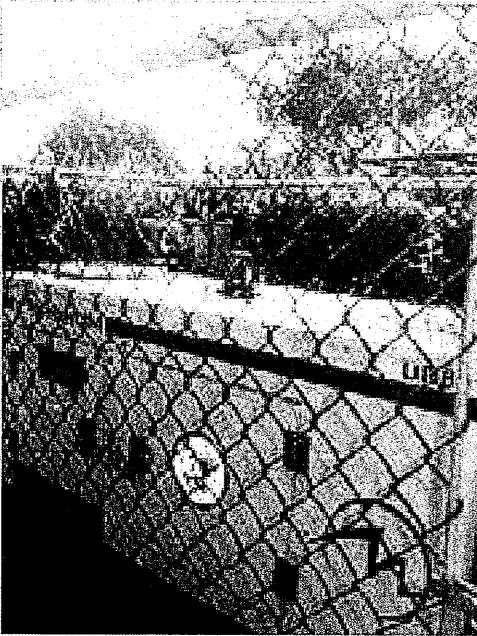
Lift Stations No. 26, 45, and 51 Rehabilitation

SERVICES:

- Design Services
- Conversion "Can-Type" Station to Submersible Stations
- Replacement of Approximately 75 LF of 10-Inch Forcemain

COMPLETED:

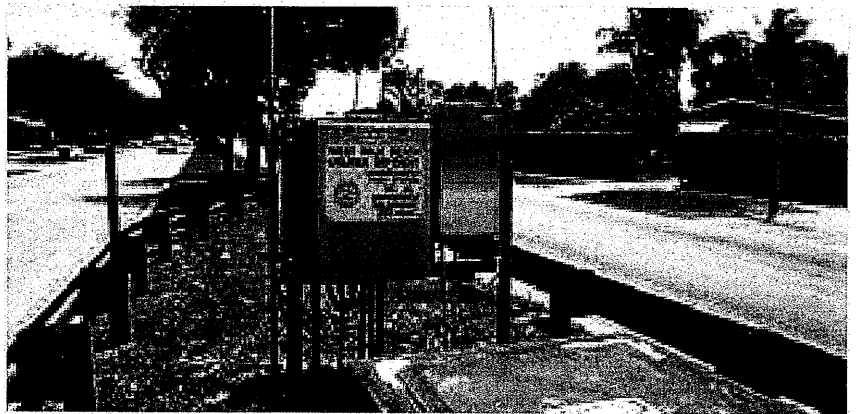
Ongoing



The City of West Palm Beach contracted with Baxter & Woodman to provide engineering design services for the rehabilitation of Lift Stations 26, 45, and 51 in the City of West Palm Beach.

The project includes the following components:

- Convert the existing "can-type" station (with two 20 HP pumps) to submersible stations which are located within the median of Australian Avenue. Installed two new 20 Hp submersible pumps with associated rails and hatches.
- Provide structural modifications of the existing wetwell to convert it into a submersible wetwell. Demolished the concrete entrance tube and extend the concrete walls to grade. Provided new concrete top slab with hatches.
- Replace the existing control panel and RTU in accordance with City standards.
- Replace the existing 30 KW with a new 30 KW standby generator with base mounted tank. (LS 51)
- Replace approx. 190 LF of 12-inch gravity sewer line and 43 LF of 10-inch gravity sewer line.
- Replace approx. 75 LF of 10-inch forcemain in the discharge line.
- At lift station No. 51, the existing emergency diesel driven standby generator was replaced with a new generator unit.



City of Wilton Manors, FL

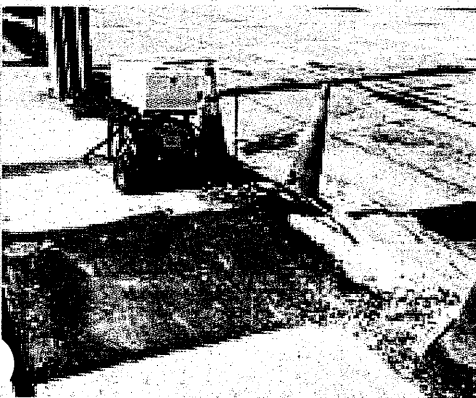
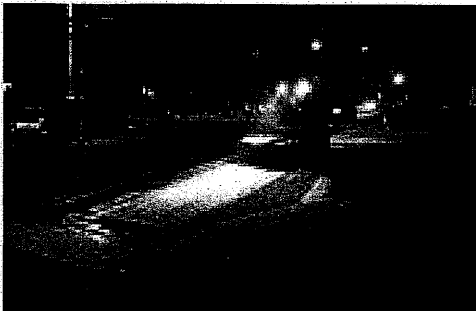
29th Avenue & 30th Court Water Main Improvements

SERVICES:

- Contract Documents
- Potable Water System Upgrades
- Data Collection
- Permitting
- Construction Administration

COMPLETED:

Ongoing



Baxter & Woodman is providing the City of Wilton Manors with professional engineering services for potable water system upgrades for NW 29th Street and NW 30th Court.

Phase 1 - NW 29th Street:

The Florida Department of Transportation (FDOT) performed the design for the improvements to NW 29th Street from east of the intersection of NW 9th Avenue (SR-845/Powerline Road), approximately 0.50 miles. The improvements included pedestrian and bicyclist mobility, sidewalk repairs, milling, and resurfacing of the road within the project limits. The City wanted to take the opportunity to improve the potable water system by replacing the existing 6-inch water main, portions of which consist of asbestos cement piping, prior to the start of the construction of the roadway project.

The replacement of the 6-inch water main extended from the intersection of NW 9th Terrace and NW 29th Street to Andrews Avenue and NW 29th Street (approximately 2,975 linear feet). Two fire hydrants were relocated to the right-of-way lines of NW 29th Avenue and at the southwest corner of the intersection of NW 3rd Avenue and NW 29th Street. One fire hydrant was installed at the southeast corner of NW 6th Avenue and NW 29th Street. An existing 6-inch water main was replaced along NW 6th Terrace to an existing fire hydrant (approximately 450 linear feet) north of the intersection. The existing fire hydrant was also replaced.

An existing 6-inch water main along NW 6th Avenue (approximately 550 linear feet), an existing fire hydrant located on the southeast corner of the intersection, and an existing 6-inch water main along NW 28th Street (approximately 125 linear feet) were replaced.

Phase 2 - NW 30th Court:

An existing 6-inch water main (east of NW 9th Avenue) and 4-inch water main (west of NW 9th Avenue) and existing water services were located along the south right-of-way line of NW 30th Court with a project limit between NW 11th Terrace and approximately 650 linear feet east of the intersection of NW 30th Court and NW 9th Avenue. An existing parallel 8-inch water main was located along the north right-of-way line of NW 30th Court. The City desired to relocate all water services connected to the existing 4-inch water main within the project limits to be connected to the 8-inch water main. The existing 4-inch water main was abandoned in place. Additional segments of 4-inch (approximately 150 linear feet) and 6-inch (approximately 16 linear feet) water mains along NW 9th Avenue and 4-inch (approximately 135 linear feet) along NW 11th Terrace were abandoned as part of Phase 2.

City of Delray Beach, FL Osceola Neighborhood Improvements



SERVICES:

- Drainage Improvements
- Roadway Improvements
- Alleyway Improvements
- Water & Sewer Improvements
- Traffic Calming
- CEI Services
- Public Involvement
- LED Lighting
- Landscape & Irrigation Improvements

COMPLETED:

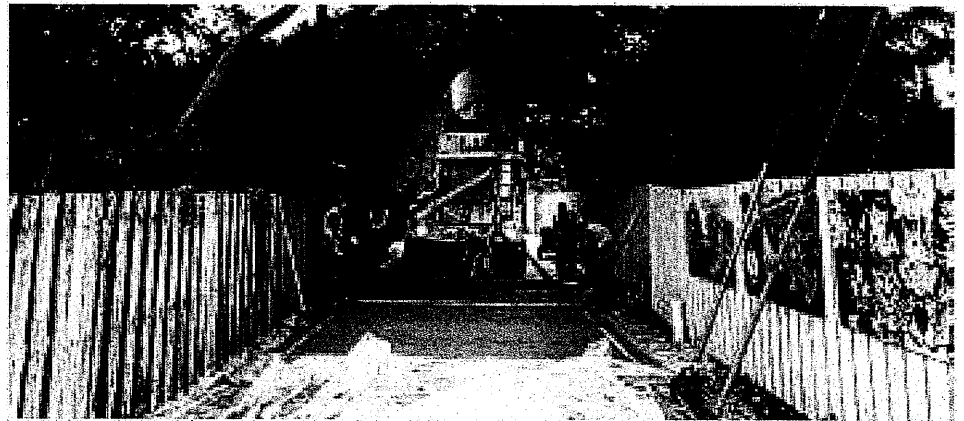
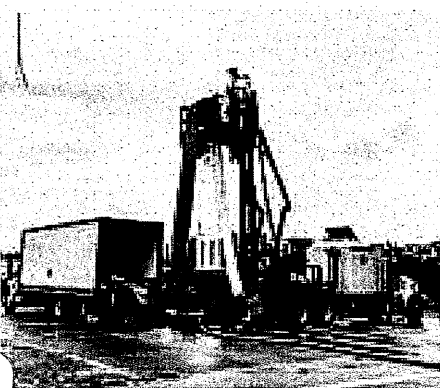
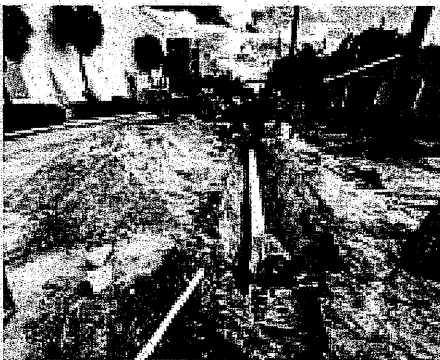
- Phase 1 - 2021
- Phase 2 - 2023

The City of Delray Beach contracted with Baxter & Woodman to improve the roadways and drainage infrastructure within the Osceola Neighborhood, including approximately five miles of roads and alleyways within an older, established area of the City. The project is located on a coastal ridge characterized with well drained soils. However, development of streets and homes have altered the natural drainage patterns and resulted in several areas of trapped runoff.

Drainage problems were identified by performing a GIS ponding assessment of LiDAR information and by performing hydrologic and hydraulic modeling using Inter-Connected Ponding Routing (ICPR4) model. The results compared favorably with residents' accounts.

The City directed Baxter & Woodman to minimize the use of swales within the project area because of residents' penchant to park along the road. The City also requested that new drainage infrastructure be minimized to save costs. Baxter & Woodman responded by taking advantage of the geology and topography of the area and designed exfiltration systems located in key areas intended to eliminate flooding, provide improved water quality, and restore flow patterns.

The neighborhood included mid-block unpaved alleyways behind the homes. The residents requested improved pedestrian and bicycle pathways via the alleyways. There was a lack of piped drainage systems along the alleyways and therefore permeable concrete pavement was proposed for the alleyways to allow for percolation of the stormwater runoff. This project was selected for the American Concrete Pavement Association's 2021 Sustainable Practices Recognition Award, presented for the implementation of sustainable and resilient design and construction practices that consider societal, environmental and economic factors.





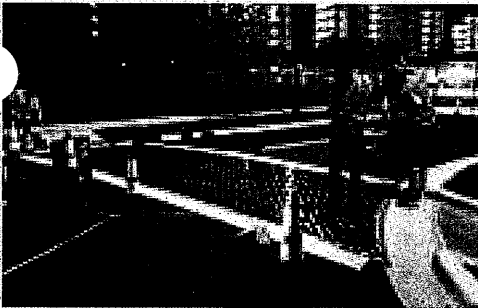
Town of Lake Park, FL Lake Shore Drive Drainage Improvements

SERVICES:

- Survey
- Geotechnical
- Modeling
- Preliminary Design
- Permitting
- Bidding

COMPLETED:

2022



The Town of Lake Park contracted with Baxter & Woodman to provide engineering services for the design of drainage and other related improvements on Lake Shore Drive starting from the entrance of the Lake Park Marina north 3,220 feet to Castlewood Drive. Lake Shore Drive was prone to frequent flooding with road elevations ranging from 2.0 to 3.2 feet, NAVD. An innovative drainage system was designed that included pumping stormwater up into a dry detention area/bioswale for water quality treatment before discharging to the Lake Worth Lagoon. The project addressed flooding issues, King Tides and Sea Level Rise (SLR), as well as providing a completely new pedestrian friendly corridor for the area's residents. Baxter & Woodman also provided assistance with a Hurricane Mitigation Grant application for \$3.5M. Services included:

Drainage System Design

- ICPR4 Modeling
- Level of Service Assessment
- Sea Level Rise Evaluation
- Drainage System and Pump Station
- Water Quality Improvements
 - Pollution Control Devices
 - Bioswale
- Permitting with SFWMD and USCOE

Roadway Design

- Roadway Replacement/Mill and Overlay
- US 1 Corridor Coordination
- ADA Compliant Sidewalks and Shared Path
- Landscaping and Irrigation
- Street Lighting

Baxter & Woodman provided engineering design, permitting, and bidding services for certain utility and roadway drainage improvements to Lake Shore Drive. Baxter & Woodman also provided full construction management services with a construction manager and full-time inspector to process pay applications, clarifications, shop drawings and as-builts. The final pavement section called for Asphalt Base Course, Type B-12.5 ("Blackbase") to provide additional resistance to pavement degradation due to groundwater tidal influence resulting in repeated base rock inundation from the adjacent Intracoastal Waterway.

Town of Gulf Stream, FL

SR A1A Water Main Improvements

SERVICES:

- Design Engineering
- Open Cut & Directional Drill Water Main Installation
- Permitting
- Construction Inspection
- FDOT Agency Coordination

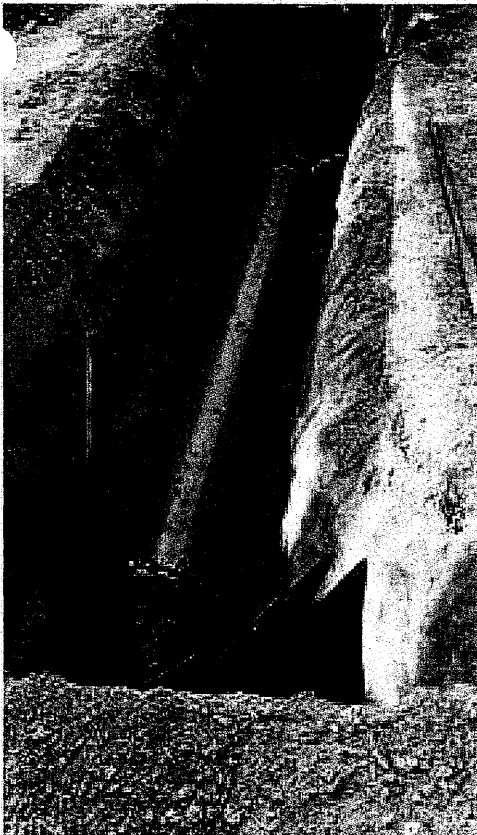
COMPLETED:

2023

Baxter & Woodman prepared the 10 Year Capital Improvement plan for the Town of Gulf Stream that identified the need for replacement of an existing 6-inch water main along SR A1A with a 12-inch water main and replacement of existing 6-inch water mains along Sea Road, North County Road, and Little Club Road with an 8-inch water main.

The Town requested that Baxter & Woodman provide data collection, design, permitting, and construction administration services in the execution of this project. The infrastructure improvements included:

- Design of a 12-inch water main on State Road A1A and 8-inch water mains on Sea Road, North County Road, and Little Club Road
- Directional drill in select areas
- Mature tree preservation
- Coordination with FDOT
- Re-connection to the existing emergency interconnect
- Fire hydrants, valves, and water services



Palm Beach County Engineering & Public Works, FL Sims Road Improvements (from Lakes of Delray Boulevard to Atlantic Avenue)

SERVICES:

- Design Services
- Roadway Extension
- Culverts
- Utility Coordination

COMPLETED:

Ongoing

Baxter & Woodman is providing design services for a roadway extension and culvert for the LWDD Canal L-34 crossing for Sims Road, extending from Lakes of Delray Boulevard to Atlantic Avenue. The unimproved road section is approximately 3,000 LF and is located in unincorporated Palm Beach County, west of Delray Beach.

Engineering services included the following tasks:

- Utility coordination
- Paving and drainage design
- Pavement marking and signage
- Surface water management and environmental permitting
- Signalization design
- Street lighting photometrics

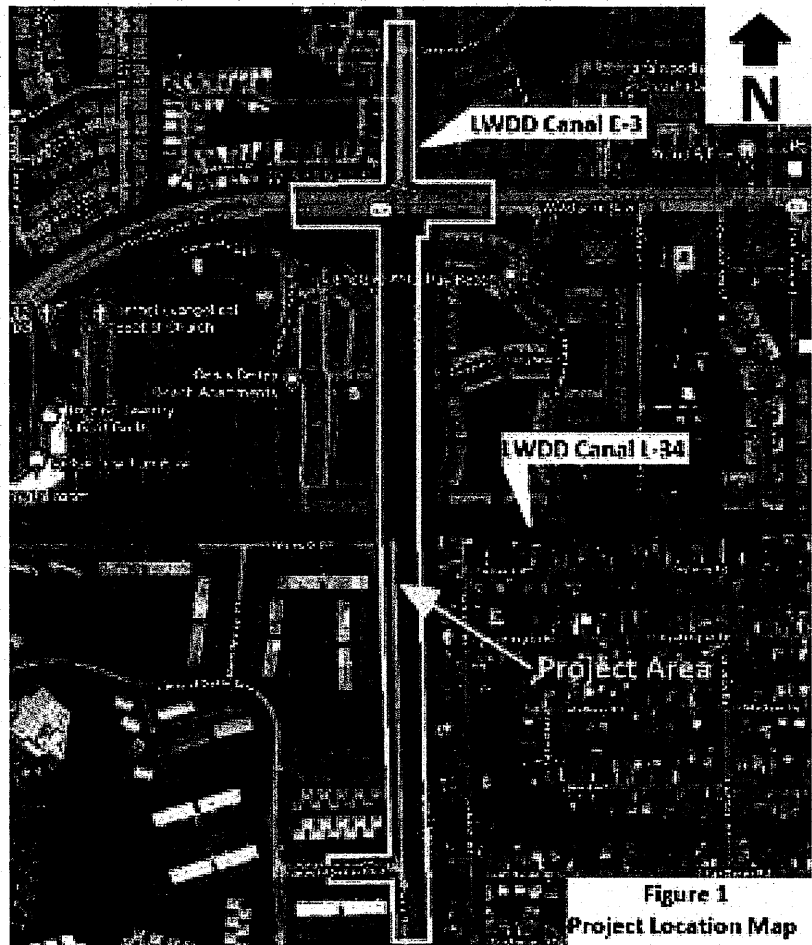


Figure 1
Project Location Map

City of Pompano Beach, FL Esquire Lake Stormwater Improvements

SERVICES:

- Drainage Design
- Installation of New Drainage Facilities 18"-42"
- Roadway Reconstruction
- CEI Services
- CMS Services

COMPLETED:

Design - 2018
Construction - 2020

The City of Pompano Beach selected Baxter & Woodman to prepare a Drainage Preliminary Design Report for the Esquire Lake Neighborhood. The Drainage Preliminary Design Report provided the recommended improvements to the Esquire Lake Neighborhood in order to address roadway flooding and standing water issues after rainfall events in the neighborhood.

The design of the proposed improvements included installation of new drainage facilities 18-42-inch (piping, catch basins, manholes, exfiltration trench, outfalls, etc.) swale grading and sodding, roadway reconstruction and pavement resurfacing, clearing and grubbing, dewatering, MOT, pavement markings and signage, compliance with permit conditions, testing, and all restoration work. The project included installation of 42-inch diameter drainage pipe within a 12-foot wide drainage easement running between homes. This required careful coordination and monitoring of the construction efforts to ensure a successful installation, to limit the City's liability, and to limit impacts to the adjacent homeowners.

Baxter & Woodman subsequently provided CEI services, engineering design, permitting, bidding, public relations, State Revolving Loan documentation, construction administration services, and coordinated with Broward County Traffic Engineering Division for pavement markings, signage acceptance, and closeout.



Loxahatchee River District, FL Master Lift Station No. 1 Rehabilitation

SERVICES:

- Three New 110 HP Pumps
- New 365 kW Generator
- Replacement of Existing Pump Suction & Discharge Piping
- Structural Improvements

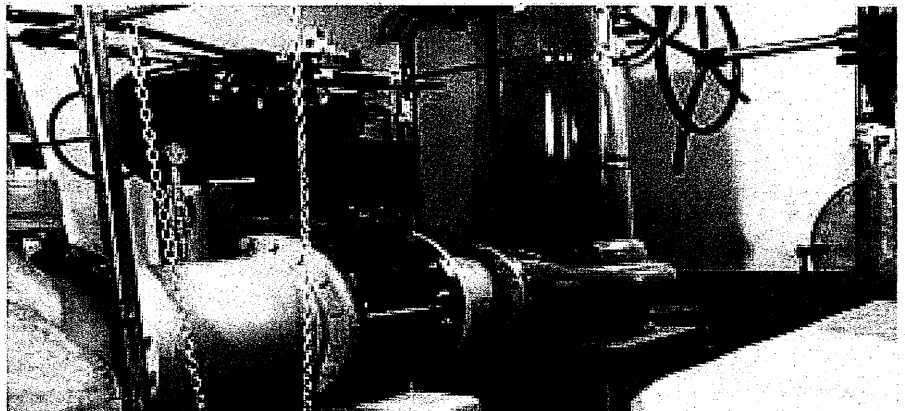
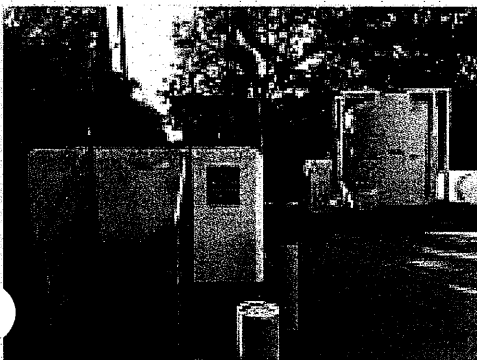
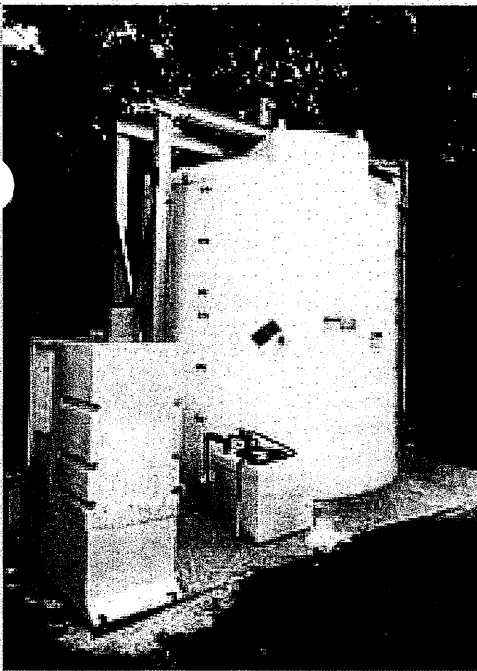
COMPLETED:

2020

The Loxahatchee River Environmental Control District owns and operates Master Lift Station No. 1 (MLS No. 1), which is located at the southwest corner of the intersection of Indiantown Road and Pennock Lane. The station is currently a triplex station equipped with dry-pit type, submersible pumping units. The station serves the surrounding areas through a network of gravity sewers and also serves as a re-pump station for multiple smaller area lift stations. All flow conveyed to MLS No. 1 is discharge via gravity to the influent chamber of the facility.

The District contracted with Baxter & Woodman to provide engineering services for the following project rehabilitation components:

- Replacement of the existing dry-pit, non-submersible type pumps with three 110 HP pumps.
- Replacement of the existing diesel driven standby generator unit with a new 365 kW generator.
- Provision of MOVs with IP68 rated enclosures suitable for immersion service.
- Replacement of the existing pump suction and discharge piping to accommodate the new pumps and discharge valve locations.
- Replacement and relocation of the existing manually operated plug valves on the pump discharge piping.
- Incorporation of a temporary bypass connection within a below-ground vault to provide reliability and redundancy during facility shut-downs.
- Installation of a 30-inch temporary line stop will be installed on the pump discharge piping in the yard.
- Structural improvements and re-coating of the interior concrete surfaces.



Town of Lauderdale-by-the-Sea, FL

South Silver Shores Traffic Calming Study

SERVICES:

- Traffic Engineering
- Traffic Calming
- Preliminary Design
- Public Involvement

COMPLETED:

Ongoing

The Town of Lauderdale-By-The Sea has Baxter & Woodman perform a traffic calming study for the South Silver Shores Neighborhood. Baxter & Woodman attended a public meeting with the community to listen to their concerns. The scope of work includes the collection of speed and directional traffic counts at ten locations within the neighborhood, analysis of the data, trip generation for the neighborhood and analysis to determine the extent of speeding and cut-through traffic in the neighborhood. Upon completion of the analysis a preliminary concept for traffic calming features will be developed. This plan will be presented first to the Town and then to the community.

Baxter & Woodman's Engineering Services includes the following primary tasks:

- Task 1 - Project Management and Coordination
- Task 2 - Data Collection and Analysis
- Task 3 - Alternatives Analysis and Technical Memorandum
- Task 4 - Conceptual Plans



Town of Lauderdale-by-the-Sea, FL Pavement Condition Study

SERVICES:

- Photographic Log
- Pavement Surface Evaluation
- Pavement Rehabilitation Strategy
- Cost Estimates

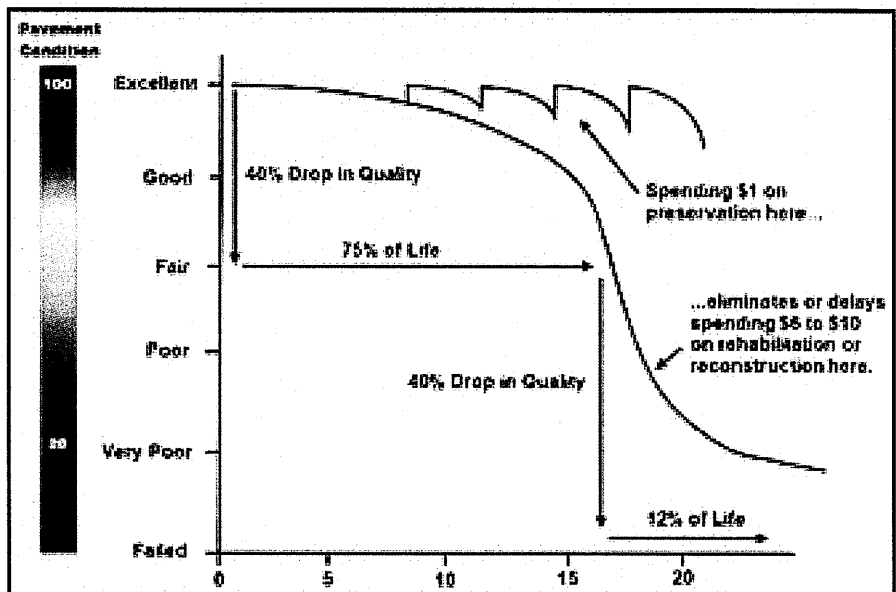
COMPLETED:

2021

The Town of Lauderdale-by-the-Sea authorized a pavement condition survey to assess the state of the Town's streets and develop an economical and workable street program to maintain their streets over the next several years. The primary goal of a successful pavement management plan is to proactively rehabilitate streets on a schedule that targets repairs before pavements approach the end of their useful life - where pavements rapidly decline and become far more expensive to rehabilitate. This strategy is the most effective use of the Town's allocated street budget regardless of the budget amount.

The Town commissioned Baxter & Woodman, Inc. to reassess the condition of the Town's street network and produce a pavement condition survey. Work tasks included:

- Develop a current inventory of street information in a database that is easy to access and update.
- Collect photographic log utilizing a truck-mounted GoPro
- Evaluate each street section and assign a Pavement Surface Evaluation and Rating (PASER) value.
- Identify pavement rehabilitation strategy for each street section.
- Estimate the costs of recommended improvements.
- Analyze the effectiveness of the Town's current and future street improvements annual budget.



Town of Lantana, FL

Services as Town Engineer

Services

General Engineering Services on an as requested basis as needs arise.

Dates

Ongoing



Baxter & Woodman as the Town Engineer for the Town of Lantana, provides drainage permit review for all proposed construction projects within the Town. As the consulting engineer representative on the Town's Plan Review Committee, Baxter & Woodman reviews site plan and variance applications for commercial and multi-family projects. Baxter & Woodman also coordinates and acts as the Town's liaison with other local governmental agencies on an as needed basis.

Site Plan & Variance application reviews include:

- RaceTrac - commercial
- Aura Seaside - multi-family/mixed use
- Palm Beach Maritime - school
- Ahrens Companies - maintenance facility
- Maranatha Bible Church - church
- The Village - assisted living facility
- Water Tower Commons - mixed use

Drainage Permit reviews include:

- Water Tower Commons
- Mixed Use
- Ahrens Maintenance Facility - commercial
- 702 South Dixie Highway - parking lot
- Holiday Inn Express - commercial
- Family Dollar - commercial
- KFC - commercial
- The Moorings - multi-family
- Numerous single family home sites

FDOT coordination work includes:

- Dixie Highway drainage improvements to address runoff from FDOT ROW onto local roadways
- Modifications to I-95 weir structure to address regional drainage impacts to Town drainage facilities
- Lane Diet analysis and median improvements to Dixie Highway
- Review proposed improvements to Lantana/I-95 Interchange

Palm Beach County liaison work includes:

- Coordination regarding Palm Beach County Traffic Division approval for various project driveway turnouts
- Coordination regarding Palm Beach County Traffic Division approval for Water Tower Commons mixed-use facility, turn lanes, traffic reviews, signalization
- Coordination regarding fire lane access and utility availability for Aura Seaside multi-family/mixed use facility
- Traffic Performance Standard letter for Town Library expansion

Florida Department of Environmental Protection

coordination work includes:

- Preparation of the annual report for the Town's NPDES permit

City of Delray Beach, FL

Northwest Neighborhood Drainage Improvements

SERVICES:

- Research Plats and Deeds
- Topographic Survey
- Sketch & Descriptions

COMPLETED:

Ongoing

SIZE:

14.5 Acres +/-

COST:

\$129,000 +/-

The City of Delray Beach and the Delray Beach Community Redevelopment Agency are performing a series of improvements in the NW Neighborhood area. The scope of the project includes improvements for: drainage, utilities, lighting, pavement, pedestrian/ bicycle pathways, and landscaping.

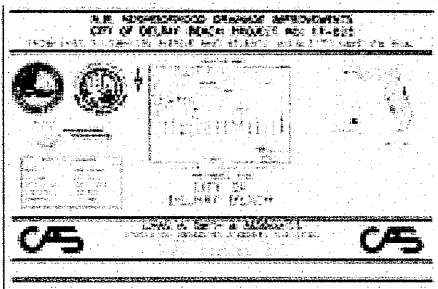
Dennis J. Leavy & Associates (DJLA) was selected to provide additional land surveying services for this project. Mr. David A. Bower served as Project Manager.

In order to determine the horizontal and vertical position of the project, DJLA field crews established horizontal site control utilizing the Florida state plane coordinate system (83/90 datum). This information was obtained utilizing Global Positioning System (GPS) equipment. Vertical control for the project was established based upon the North American Vertical Datum of 1988 (NAVD 88).

For engineering design, DJLA field located existing structures and improvements within the rights-of-way and easements. This included roadways, drives, sidewalks, curbing, trees, and fences, as well as above ground existing utilities including FP&L, Bellsouth, cable TV, natural gas, sanitary sewer, lift stations, storm sewers, force mains, and catch basins. DJLA field personnel also obtained information on pipe material, size, invert elevation, direction, and rim/grate elevations for sanitary and storm structures. Existing ground elevations at various intervals was obtained across the site.

The field information obtained above was coordinated with the ownership lines, easements, and right-of-way information recorded in the Public Records and/or Florida Department of Transportation Right-of-Way Maps in order to delineate project boundaries.

To complete the project, DJLA prepared Topographic Surveys for a portion of the roadways and 103 Sketch & Descriptions for right of way acquisition purposes.



Town of Lake Park, FL

Lake Shore Drive Drainage Improvements

SERVICES:

- Infrastructure Layout
- Topographic Survey
- Record Drawing Preparation

COMPLETED:

2022

SIZE:

3,500 Linear Feet +/-

COST:

\$116,000 +/-

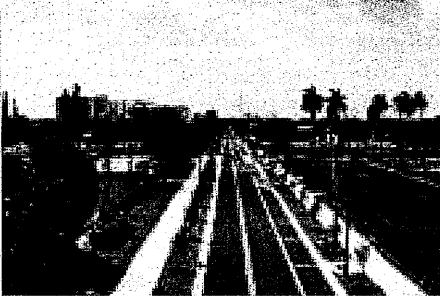
The Lake Shore Drive was project established to improve the drainage system, water/sewer utilities, roadway and landscaping improvements.

Dennis J. Leavy & Associates (DJLA) was selected to provide land surveying services for this project. Mr. David A. Bower served as Project Manager.

In order to determine the horizontal and vertical position of the project, DJLA field crews established horizontal site control utilizing state plane coordinate system (83/90 datum). This information was obtained through Global Positioning System (GPS) equipment. Vertical control for the project was established based upon the North American Vertical Datum of 1988 (NAVD 88).

For construction purposes, DJLA provided field layout for proposed infrastructure. This included roadway, drainage, sanitary, watermain, hydrants, and street lighting.

To complete the project, DJLA is prepared As-Built / Record Drawings of completed roadway, drainage, watermain, sanitary infrastructure.



Palm Beach County, FL

Green Cay - Phase II

SERVICES:

- Title Commitment Review
- Easement Research
- Topographic Survey
- Boundary Survey
- Tree Survey

COMPLETED:

2020

SIZE:

66.5 Acres +/-

COST:

\$39,000 +/-



The Green Cay - Phase II Project was established by Palm Beach County to update the Green Cay nature center to include a second park and water purification center. The project included a new 2 million gallon per day Water Purification Facility located at the Southern Region Water Reclamation Facility, a new Learning/Education Center, a new 63-acre park, and 8 surficial production wells and associated raw water mains.

Dennis J. Leavy & Associates (DJLA) was selected to provide land surveying services for this project. Mr. David A. Bower served as Project Manager.

A Title Commitment provided by others was reviewed to determine any easements or encumbrances which may affect the project. In order to determine the horizontal and vertical position of the project, DJLA field crews established horizontal site control utilizing the Florida state plane coordinate system (83/90 datum). This information was obtained through state of the art Global Positioning System (GPS) equipment. Vertical control for the project was established based upon the North American Vertical Datum of 1988 (NAVD 1988).

For engineering design, DJLA field located existing structures and improvements within the project limits. This included buildings, roadways, drives, sidewalks, curbing, and fences, as well as above ground existing utilities including FP&L, sanitary sewer, lift stations, storm sewers, force mains, and catch basins. DJLA field personnel also located and identified native trees within the property limits. Existing ground elevations were obtained across the site.

The field information obtained above was coordinated with the ownership lines, easements, and right-of-way information recorded in the Public Records and/or Florida Department of Transportation Right-of-Way Maps and the Title Commitment to delineate project boundaries.

To complete the project, DJLA prepared a Boundary Survey with Topography, and a Tree Survey.

City of Boynton Beach, FL

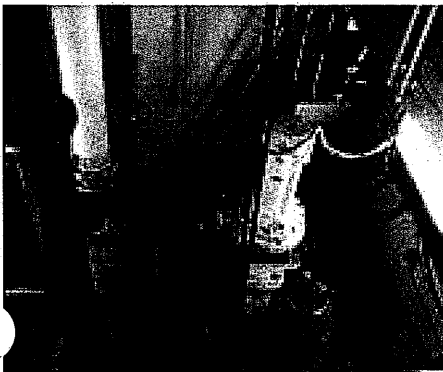
Lift Station 309

SERVICES:

- Electrical & HVAC Engineering
- Multi-Discipline Coordination
- General Services During Construction

COMPLETED:

2017



Boynton Beach Lift Station 309 is located at the Northwest corner of N. Seacrest Boulevard and NW 19th Ave. The station is a Master Lift Station that was in need of rehabilitation in order to support future flow projections. The station consisted of three pumps sized at 85 HP, 88 HP and 31.5 HP served from a 480Volt, 30 service originating at the FPL service pole adjacent to the station. The station was supported by a 230 kW standby generator located within a separate block building adjacent to the pump station building.

Electrical designed included a new power distribution system designed to support the entire station including the replacement of the jockey pump with a full-size pump and a diesel standby pump. The station control system included a new control panel utilizing the ACE3600. The new power and control systems were housed within the existing generator building. The design also addressed the conduits extending through classified spaces and from non-classified to classified spaces including the use of EYS fittings at the point of entrance and/or exit in accordance with NFPA 820.



Electrical Design Associates

ELECTRICAL DESIGN ASSOCIATES

Palm Beach County, FL

PBC System Wide Wellfield Improvements

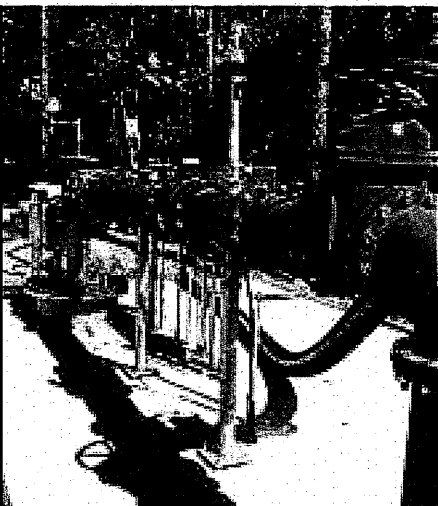
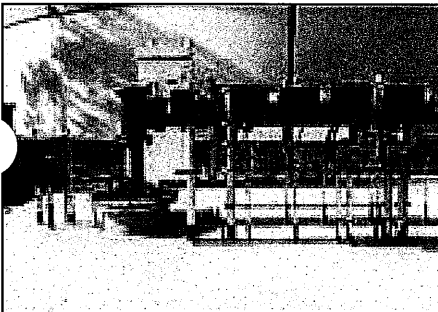
SERVICES:

- Electrical & Instrumentation Engineering
- Multi-Discipline Coordination
- General Services During Construction

COMPLETED:

Design - 2020

Construction - Ongoing



Electrical Design Associates, Inc. (EDA) was contracted to provide electrical and instrumentation design for improvements to surficial aquifer production wells located at two (2) of the County's water treatment plants (Nos. 2 & 8) throughout the Palm Beach County Water Utilities Department (PBCWUD) service area. Our Scope of work included the following:

1. Electrical and Instrumentation design associated with the complete replacement and/or over drill of wells No. 2W-3, 2W-4, 2W-5, 2W6 and 2W-7 at Water treatment Plant No, 2. Design includes a new VFD driven control panel and RTU at each location. VFD shall include an ethernet module and hard-wired signals.
2. Electrical and Instrumentation design associated with the complete replacement and/or over drill of wells No. 8W-6, 8W-17, 8W-18 and 8W-23 at Water treatment Plant No, 8. Design includes a new VFD driven control panel and RTU at each location. VFD shall include an ethernet module and hard-wired signals. It is our understanding that which includes wells No. 6 and 23 are on one FPL service and do not include standby power.
3. Instrumentation at each well includes drawdown measurement, well pressure, raw water temperature, conductivity, ORP, flow switch and a flow meter. SCADA Tagging shall be in accordance with Palm Beach County standards, a four-part string consisting of the following parts; Plant Designation (up to Four Characters), Particular System (Four Characters), Individual Equipment Number within the System (Two Characters), and an abbreviated description.
4. Electrical and Instrumentation design associated with a stand-alone RTU at each location in accordance with Palm Beach County Standards. Each RTU communicates via a 900MHz radio and shall be based on an Allen Bradley CompactLogix PLC.
5. Electrical design associated with the feeder replacements at Wells No. 8W-3R, 8W-13, 8W-14, 8W-18 and 8W-22.
6. Electrical design associated with the feeder replacements at Wells No. 2W-3, 2W-4, 2W-5, 2W-6 and 2W-7.



Electrical Design Associates

ELECTRICAL DESIGN ASSOCIATES

Miami- Dade County, FL

Biscayne Bay Coastal Wetlands Cutler Flow Way Phase 1 Pump Station S-701 Construction Project

SERVICES:

- Technical Assistance
- Design Support
- On-Site Representative
- Request For Information
- Request For Clarification
- Request For Proposals
- Change Orders
- Field Orders
- Value Engineering
- Review QA/QC
- Record Drawings

PROJECT ELEMENTS

- 400 DFS Pump Station
- Intake Canal
- Discharge Canal

COMPLETED:

Dates: 2021 - Current
Contract Value \$700,000

The S-701 Pump Station project is a component of the Biscayne Bay Coastal Wetlands (BBCW) Phase 1, Cutler Wetlands C-1 Flow Way (Cutler Wetlands C-1 Flow Way Project). The Cutler Wetlands C-1 Flow Way Project is an element of the Comprehensive Everglades Restoration Plan (CERP). The purpose of the BBCW Phase 1 component of CERP is to contribute to the restoration of Biscayne Bay and adjacent wetlands as part of a comprehensive plan for restoring the south Florida ecosystem. The project intends to redistribute freshwater runoff from the watershed away from the existing canal discharges and into the coastal wetlands adjoining Biscayne Bay to provide a more natural and historic overland flow through existing coastal wetlands. This project will also help restore saltwater wetlands and the nearshore bay through the re-establishment of optimal salinity concentrations for fish and shellfish nursery habitat. The S-701 is a 400 cfs Pump Station (3-100 cfs pumps, 2-50 cfs pumps).

WIRX is providing Engineering During Construction (EDC) Services, which includes:

Task 1 – Solicitation Assistance to District

Task 2 – Conformed Plans and Specifications

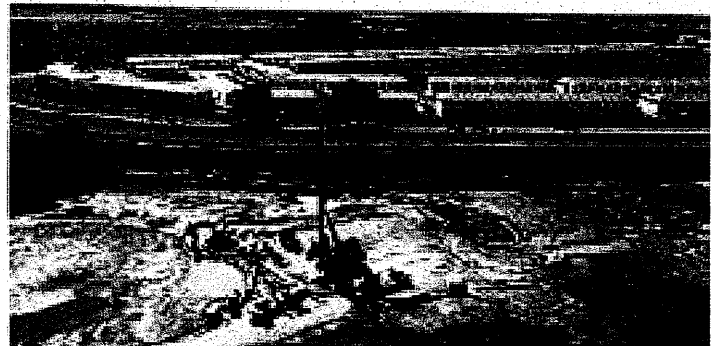
Task 3 - Engineering During Construction (EDC)

Task 4 – Construction Observations

Task 5 - Submittal and Correspondence Review

Task 6 – Design During Construction

Task 7 – Project Closeout, Commissioning and Start-up



South Bay, FL

CEPP EAA A-2 Engineering and Construction Bureau Support

SERVICES:

- Maintain Project Files in Accordance with Document Control System;
- Provide Design Assistance with Consultant's Internal Design Teams;
- Perform Construction Observations;
- Collect On-Site Construction Photos;
- Create Daily Reports and Upload to Document Control System;
- Maintain Project Files
- Attend Project Meetings;
- Manage Project Status and Reporting to SFWMD;
- Assist With Other Project Related Technical Activities

PROJECT ELEMENTS

- STA/RES Connection Canal
- 6,500 ACRE STA Construction
- 10,500 ACRE/240K ACRE FT Storage Reservoir

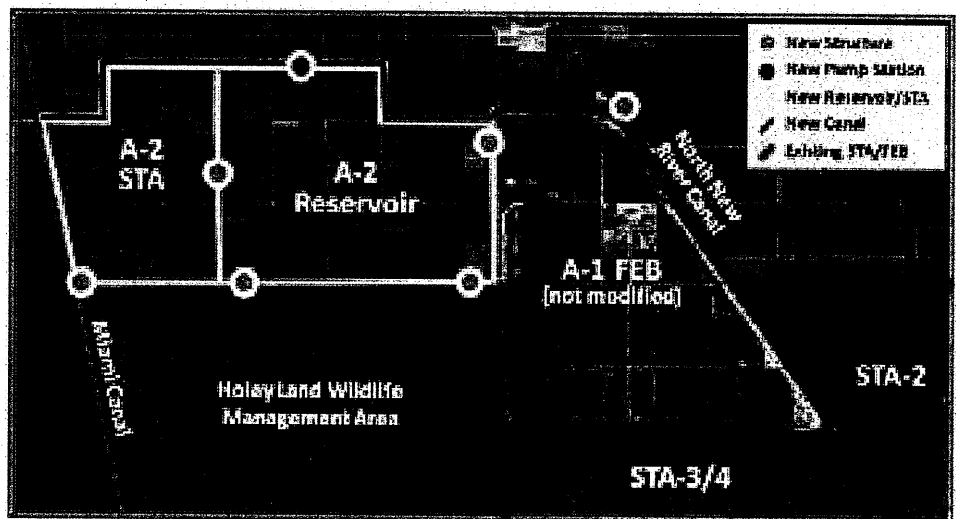
COMPLETED:

Dates- January 2023 - Current
Contract Value \$487,537

The CEPP New Waters EAA STA/Reservoir projects consist of joint Everglades restoration efforts between the SFWMD and the USACE. The SFWMD is responsible for building the connection canal between the STA and the Reservoir and building the constructed wetland known as the stormwater treatment area, and the USACE is building the water storage reservoir. The purpose of the Central Everglades Planning Project (CEPP) Everglades Agricultural Area (EAA) Reservoir Phase is to construct a 240,000 acre-foot EAA reservoir and 6,500 acre-foot stormwater treatment area, and integrate them with A-1 FEB operations.

The Scope of Work for this project includes clearing, grubbing, demucking, blasting, dewatering, canal excavation, foundation preparation, installation of a seepage cutoff wall, canal backfilling, and all incidental related work to prepare approximately 9.25 miles of foundation for a 17.3 miles-long embankment dam, to be constructed under separate contract within the (EAA). The approximate toe to toe width of the foundation is 260 feet in the north, east, and west; and 235 feet in the south.

WIRX role is to support the execution of the work associated with the referenced CEPP New Waters EAA STA/Reservoir projects with Civil Engineering Staff. The Engineers are assigned to assist the South Florida Water Management District (District) appointed Project Manager (PM) to provide the maximum benefit incompletion of the required deliverables in accordance with the established project schedules,



Deerfield Beach, FL

SR A1A Deerfield Beach LAP Project

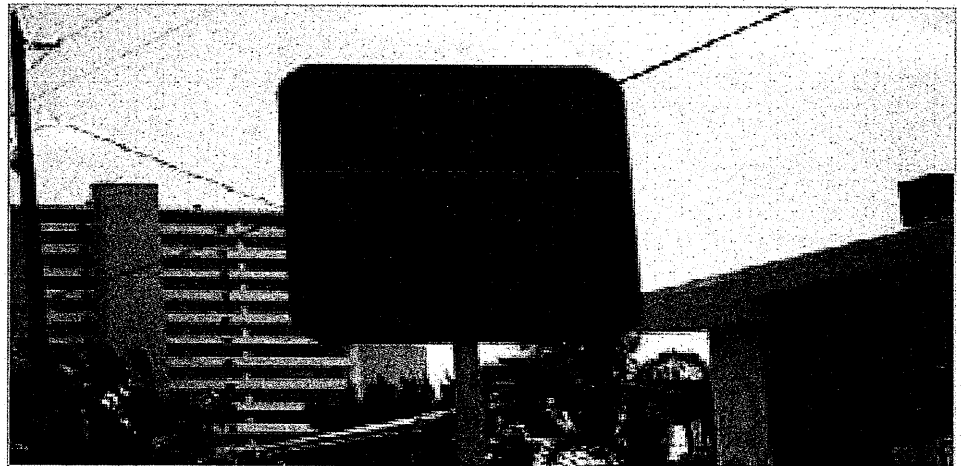
REPORTS:

- Categorical Exclusion Type 2 (NEPA) Document and Conducting the Supporting Environmental Studies
- Endangered Species Biological Assessment Report
- Contamination Screening Evaluation Report
- Noise Study Report

The City of Deerfield Beach, under the Local Agency Program (LAP) agreement with the Florida Department of Transportation (FDOT), conducted a Project Development and Environment (PD&E) Study to evaluate alternatives for mobility and safety improvements to SR A1A. The project limits are from SE 3rd Street to NE 7th Street, a distance of approximately 0.84 mile. Three alternatives were evaluated for possible improvements and included modifying traffic circulation. Public involvement was a critical component to address potential impacts to businesses, including a reduction of parking.

CECOS was the lead environmental consultant on the project and was responsible for preparing the Categorical Exclusion Type 2 (NEPA) document and for conducting the supporting environmental studies. CECOS also prepared the supporting reports. Report. Over 400 noise sensitive sites were identified including condominiums, apartments and hotels. We completed a noise analysis and identified impacts to all sensitive sites and defined reasonable and feasible abatement measures. Sea turtle nesting occurs adjacent to the project area so CECOS conducted a night time lighting study to determine potential impact to nesting sea turtles. The project was able to retrofit "turtle-friendly lighting" for new and replaced lights CECOS also evaluated the Deerfield Beach Fishing Pier and several beach access points as potential Section 4(f) resources.

Evaluated environmental permits required for the project and coordinated with all agencies including Broward County (Stormwater), and SFWMD. Prepared environmental documentation of agency coordination and environmental issues.



FDOT D4, St. Lucie County

Sun Trail - Savannas Preserve State Park Gap

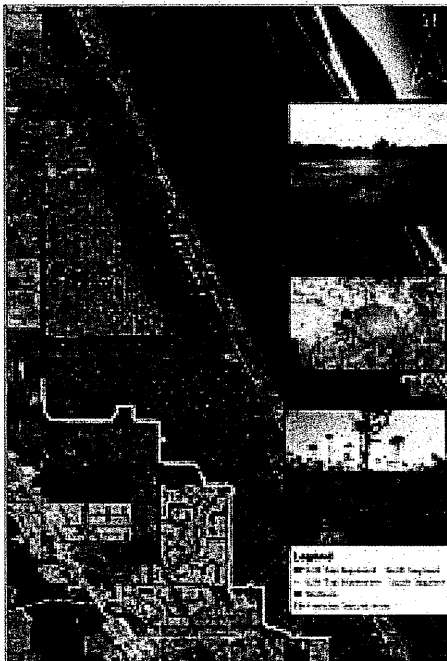
SERVICES:

- Wetland Delineations
- Wetland Habitat Mapping
- Uniform Mitigation Assessment Method (UMAM) Analysis to Evaluate Existing Conditions and Calculate Mitigation Requirements,
- Agency Coordination
- Preparation of South Florida Water Management District (SFWMD) Environmental Resource Permits (ERP) and FDEP State 404 Permit Documents

The Florida Department of Transportation (FDOT) in association with the Florida Department of Environmental Protection (FDEP) and St. Lucie County are designing an 11 mile-long, multi-use, paved trail through the Savannas Preserve State Park in St. Lucie County. This trail will eventually connect two existing East Coast Greenway (ECG) segments: one at Green River Parkway in St. Lucie County and another at the Savannas Recreation Area. Due to funding considerations, the 11-mile segment was divided into north and south segments, respectively 4.2 (north segment) and 6.8 (south segment) miles long. These two segments were designed and permitted separately.

Situated within the Savannas Preserve State Park, which is overseen by the FDEP State Parks Department and a St Lucie County owned Park, this trail traverses environmentally sensitive habitats supporting numerous protected floral and faunal species. The trail, varying in width from 8 to 10 feet, employs elevated boardwalks in certain areas to minimize any potential disruption to the park's environmentally sensitive resources,

CECOS will provide ongoing post-design services through the construction phase. Project challenges included avoiding/minimizing impacts to wetlands and listed species, water quality treatment, working with FDEP to maintain fire breaks for their prescribed burn program, and the involvement of multiple stakeholder

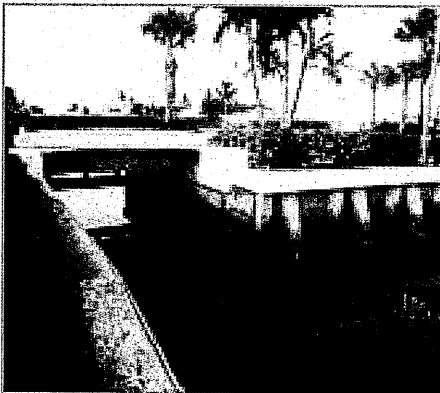


Riviera Beach FL

Singer Island Bridge Replacements

SERVICES:

- Conducting Marine Benthic Surveys;
- Threatened and Endangered Species Surveys
- Preparing Permit a
- Applications for South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (USACE)
- UMAM Analysis
- Prepared a Mitigation Plan for Impacts to Seagrass
- Agency Coordination
- Post Design Services
- Monitoring Mitigation Areas



The project involved the replacement of six low level residential bridges on Singer Island (two bridges on Grand Bahama Lane and four bridges on Island Drive), Palm Beach County, FL. These bridges were replaced with similar structures on the same alignment, but were designed to be wider.

CECOS was responsible to provide professional environmental permitting and related studies. Primary tasks included conducting marine benthic surveys; threatened and endangered species surveys, preparing permit applications for South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (USACE); UMAM analysis, preparing a mitigation plan for impacts to seagrass; agency coordination, post design services and monitoring the mitigation areas.

Utilizing SCUBA, CECOS staff conducted marine benthic surveys adjacent to each of the six bridges and mapped the location of seagrasses utilizing a dGPS unit, in accordance with USACE and National Marine Fisheries Service (NMFS) Submerged Aquatic Vegetation Survey Guidelines and the Florida Fish and Wildlife Conservation Commission (FWC) Survey Protocols for Estuarine and Marine Submerged Aquatic Vegetation (SAV). SAVs were found adjacent to each bridge including *Halophila decipiens* and the since delisted *H. johnsonii*. In coordination with the project engineers, efforts to avoid and minimize impacts to seagrass was incorporated into the project. However, impacts to both *H. decipiens* and *H. johnsonii* occurred. Permit applications were prepared for SFWMD (exemption) and USACE (Nationwide). Due to impacts to seagrass, CECOS also prepared a 12-Step Mitigation Plan for the USACE. We developed a creative mitigation solution that involved developing a water quality improvement plan (reduction of Total Dissolved Solids) utilizing proposed drainage improvements and demonstrated that over time improved water quality can provide improved habitat for seagrass.

In addition, at the time *H. johnsonii* was a federally listed species (delisted in 2022) requiring extensive coordination with USACE and NMFS; and the preparation of a biological assessment. NMFS issued a Biological Opinion concluding the proposed action is not likely to jeopardize the continued existence of Johnson's seagrass.

By incorporating Best Management Practices (BMPs) and other measures into the project in accordance with the Final Biological Opinion (JAXBO), CECOS was able to work closely with the USACE to satisfy NMFS concerns. CECOS is currently providing annual monitoring services as required by USACE permit condition, to determine success of the mitigation plan.

4. Approach to Project Management

Project Understanding

Baxter & Woodman understands the Town of Highland Beach needs general engineering services from a top tier consultant that has the breadth and range to execute the broad scope of projects as the Town has listed in the RFQ. Baxter & Woodman has been providing similar engineering services for over 78 years. Our comprehensive team includes experienced professionals with ample experience to assist the Town with:

- ✓ Civil Engineering
- ✓ Water/Wastewater/Stormwater
- ✓ Transportation
- ✓ Mechanical/Electrical/Plumbing
- ✓ Other Services:
 - GIS Asset Management
 - Vulnerability/Resiliency/Sea Level Rise

Baxter & Woodman has extensive experience in task order project design, permitting, and construction implementation working for many of our current clients in South Florida, including Highland Beach, under a continuing services agreement, administered in accordance with the Consultants' Competitive Negotiation Act (CCNA). The projects that fall within the limits of the CCNA are typically small to medium size projects that require expeditious execution. The continuing services agreement allows the Town to reduce a project schedule by bypassing the Request for Qualification/ Proposal process and to immediately develop a scope of work with Baxter & Woodman directly.

Staff Involvement

Our team's project philosophy is to match experienced individuals with the Town's staff when developing the project goals and defining the desired outcome. Key to the success of each project is frequent communication between the Town of Highland Beach Staff and the design team at regularly scheduled meetings. There is no substitute for interpersonal interaction throughout the implementation phase to confirm a clearly defined set of deliverables that meet the Town's and staff's expectations.

The Project Team Organization Chart included in Section 2 defines the lines of communication between team members, showing the flow of information to and from the Town staff. Our team's philosophy is not to employ unnecessary layers of management (i.e., project administrator, client coordinator, etc.), rather encourage direct, open communication between the Town and our Project Managers.



The Town will benefit from our vast experience, regulatory knowledge, and professional reputation; providing the most cost-effective engineering services based upon the following:

- Streamlined operations to implement projects efficiently
- Cost-effective engineering rates
- Minimal change orders and schedule delays
- Highly experienced in the design and construction of roadways, stormwater improvements, sidewalks, lift stations, water and wastewater systems, and pipelines
- Experienced in meeting schedules for fast-track projects
- Strong understanding of the local regulatory environment and our working relationship with permit reviewers confirms timely releases and certifications for construction.
- Maintain continuity of project staff throughout duration of the project
- Readily accessible to service you at a moment's notice

Project Management Philosophy

Development of a sound approach and methodology is of primary importance for the completion of projects in a timely and cost-effective manner. This is especially evident for small to mid-size projects with fast-track schedules. The Department Managers of Baxter & Woodman's project team are involved in all facets of projects, which ensures that full attention is paid to every work assignment. We place a high emphasis on *"getting the job done right."* The success of this philosophy is evidenced by the repeat business that we have received from our current clients.

The overall contract will be administered by our **Principal in Charge/Project Director, Rebecca Travis, PE, ENV SP**, who has the direct authority to commit the resources as required for the successful completion of each project. Rebecca will be responsible for maintaining full knowledge of all aspects of each project and will communicate directly to the Town of Highland Beach leadership. We will assign experienced and knowledgeable Project Managers depending upon the specific type of project.

Drainage projects will be managed by Jeffrey Hiscock, PE, who has extensive experience in designing and managing stormwater, water quality treatment, sea level rise, and resiliency type projects.

Water/Wastewater projects will be managed by Sira J. Prinyavivatkul, PE, specifically for all potable water, wastewater, reclaimed water, and utility type projects. They will be responsible for the daily administration and coordination of work with the Town of Highland Beach staff to develop the scopes of work, manage the design team, review invoicing, etc.

Once the projects go into construction, our **Construction Manager Richard Chipman, CGC**, will act as **Project Manager**. During design, B&W utilizes our construction staff to provide constructability reviews. This provides benefit to our designs as well as our construction manager already being familiar with the project before construction begins.

All Project Managers will communicate with Rebecca Travis on a daily basis to coordinate tasks. This approach is designed to provide one person answerable to the Town of Highland Beach at all times. Our project management framework results in direct lines of communication and responsibility and allows for simple project coordination.



Jeffrey Hiscock, PE
Drainage Project
Manager

Jeff has extensive engineering management experience with focus on municipal stormwater engineering, stormwater pumping station design, and Geographic Information Systems (GIS) programming. Jeff is specifically experienced with watershed assessments and detailed basin flood-routing analyses using computational hydrology and hydraulics computer modeling, and GIS.

Contact

P: 561-425-7760

E: jhiscock@baxterwoodman.com



Sira J.
Prinyavivatkul, PE
Water/Wastewater
Project Manager

Sira serves as Baxter & Woodman's Water and Wastewater Department Manager for the Florida Division. His expertise includes design of water and wastewater infrastructure including lift station, sanitary sewer, stormwater management, potable water, and water reclamation projects. His background also includes providing engineering design, permitting, bidding, construction management and observation for roadway, parking lot, and culvert improvements, as well as site inspections.

Contact

P: 561-425-7718

E: sprinyavivatkul@baxterwoodman.com

Project Approach

Baxter & Woodman has a proven track record of conducting studies and performing full engineering design and construction management services. It is important to establish a work plan that meets the Town's needs and lays out the tasks to meet those needs. This begins with a scoping meeting with the Town to identify the project goals and the Town's expectations. This work plan will establish the overall scope and schedule to be used moving forward. Baxter & Woodman is exceptionally skilled at advancing projects through design and construction by performing tasks such as data collection, design, permitting, bidding, and construction administration/inspection of municipal construction projects as well as grant assistance and compliance.

Baxter & Woodman has outlined our approach for key project milestones below:

Project Kick-Off

Baxter & Woodman's team members will attend a notice-to-proceed kick-off meeting with the primary objectives of developing a clear understanding of the scope of work and the key concerns of all project participants, obtaining relevant information that may be available from the Town of Highland Beach, and establishing proper communication between Baxter & Woodman's team and the Town staff. At this time, grant funding reporting requirements and schedules are discussed to ensure conformance with the award.

Data Collection

This task involves the collection of project specific data to be used in the design of municipal design projects. Survey information obtained by our survey subconsultant will be used in conjunction with the Town's available record drawing information, existing GIS maps, and aerial maps. Prior to design, reports and operational data will be collected.

We have partnered with **WIRX Engineering, LLC** to collect geotechnical information and provide testing as needed for design purposes.

The project team will obtain information on existing utilities in the project area in order to address utility conflicts. This will include reconciling apparent discrepancies between record information and existing photographic and field-verification information.

As necessary, utilities will be pot holed and surveyed. We propose to use an underground utility locating firm, to locate any existing critical underground utility locates. This information would be added to the design drawings. During the data collection process, the project team will work closely with the Town to determine what site data may already exist in an effort to avoid redundant collection of data. This will allow the project to move forward quickly and cost effectively.

Our project delivery approach to these types of projects typically involves the following primary tasks:

- Project Kick-Off
- Cost Estimate
- Data Collection/Survey Mapping/Geotechnical Investigation/Subsurface
- Permitting Services
- Bidding Services
- Utility Engineering
- Construction Administration
- Preliminary Design Services
- Resident Project Representative (RPR)
- Final Design Services
- Grant Assistance
- Value Engineering Services



The Baxter & Woodman project approach focuses on providing quality engineering services at cost effective rates, while meeting your project deadlines and budget requirements.



We've teamed with Dennis J. Leavy to provide surveying services.

Modeling

- **WATER MODELING** - A water model is an important tool to help manage and evaluate your water system infrastructure. Baxter & Woodman's project team includes personnel with advanced level experience in Bentley/Haested WaterGems® and Innowyze InfoWater software for water modeling. A water model is a computerized representation of all the components of your water system, including water mains, pumping stations, and storage reservoirs. Once the model is built and calibrated, it can be used to run simulations and evaluate existing and future conditions within your distribution system to determine if the infrastructure needs to be improved to serve the current or future population. "What If" scenarios can be easily evaluated such as when a pumping station is out of service or a pipe break occurs while looking at the overall operation of the system.
- **WASTEWATER MODELING** - A wastewater model will allow our team to test various simulations of existing and future system conditions typically with respect to future re-development/development growth. The model results will identify if there are under-performing system components such as high or low velocity force main conditions, areas of high pressure leading to "under performing" or "failing" lift station pumping or storage capacity, or force main or gravity main pinch points, and areas of concern for sanitary sewer overflows (SSO).

Baxter & Woodman's project team includes personnel with advanced level experience in Bentley/Haested SewerGems®, Innowyze InfoWORKS ICM Sewer Edition®, and XP SWMM® software for wastewater modeling. Initially the model will be created and reviewed using a combination of historical as-built drawings and GIS maps which identify the size, material, elevations, and locations, of all existing force mains, lift stations, pumping units, valves, ARVs, gravity pipes, and manholes. Once a base model is established, our team will run a calibration scenario to adjust the various model characteristics to meet in-field pressure and pump drawdown data.

- **STORMWATER MODELING** - Baxter & Woodman is on the forefront of technology when it comes to performing hydrologic and hydraulic modeling. Baxter & Woodman has extensive experience with a multitude of stormwater modeling programs but predominately utilize the ICPR4 software (both 1-D and 2-D versions) with the ability of integrating GIS data and Light Detection and Ranging (LiDAR) topographic information for projects within our state of Florida. Baxter & Woodman has developed several GIS algorithms designed to quickly update the ICPR model for cost-effective and time-efficient analyses. ICPR4 utilizes overlays of information such as land use and soils to create hydrologic datasets. The software is GIS oriented and communicates well with ArcGIS.
- **TRAFFIC ANALYSIS AND MODELING** - Baxter & Woodman utilizes software such as Synchro and HCS to perform traffic analysis and modeling. These tools can be used to model individual intersections, corridors or wider areas such as downtowns. Our team has extensive experience with modeling on the macro, meso, and micro scales. Staff will first prepare a model of the existing conditions and compare and adapt it to match field observations to ensure that the baseline model reflects real world conditions.

MODELING EXPERTISE

Baxter & Woodman is proficient in various modeling softwares including:

- WaterCAD/WaterGEMS
- SewerCAD/SewerGEMS
- InfoWorks ICM SE
- InfoWater
- ICPR4
- XPSWMM
- EPA SWMM
- HEC-HMS
- HEC-RAS
- StormCAD
- HY-8
- ICM
- Optomatics Optimizer
- TR-20
- HYDRAFLOW
- WAM
- CASCADE
- SSA CIVIL 3D
- FLOWMASTER

From this baseline, modifications can be made to reflect a variety of possible scenarios depending on the individual project. The results can then be presented in a variety of formats including simulation models and even 3D rendered presentation ready materials if needed.

- **COMPUTER-AIDED DESIGN** - Baxter & Woodman utilizes the latest in computer-aided design (CAD) technologies to execute designs and develop contract drawings. Baxter & Woodman's design engineers and CAD technicians are proficient in software programs such as Autodesk Civil 3D, Bentley Microstation, Bentley OpenRoads, and Autodesk Revit. These CAD programs require professionals with the knowledge of the intricacies of the software to extract their full potential. What these powerful tools mean for the City is that designs will be executed more efficiently by utilizing the powerful tools and thereby reducing the required manhours and project design budget. By utilizing computer generated surfaces, roadway corridor cross sections, pipeline network modeling, etc., the designs will be created in 3-dimensions. The creation of profiles and cross sections become an automated process.

Design

Our typical design approach is to divide the design project into two subtasks: Preliminary Design (preparation of 30% design documents and construction cost opinion), and Final Design (preparation of biddable contract documents – subject to a standard 60%, 90%, and 100% reviews). The review iterations can be reduced to fit the complexity of the project.

- **PRELIMINARY DESIGN** – Based on the survey, geotechnical data collected, utility locates, and preliminary design analysis (modeling), the project team will layout the proposed infrastructure improvements, summarized in a Preliminary Design Report, that includes a construction cost opinion. The project will be designed to maximize system performance, provide for ease of maintenance, minimize utility conflicts, and minimize construction costs. The project will also be designed in accordance with Town, County, State, and Federal design standards per the regulatory agency having jurisdiction. Agencies having jurisdiction are identified and preliminary permit meetings are conducted to confirm the extent of effort necessary to obtain permits during the Final Design task.

Modeling and other analyses are performed to determine the best and most cost-effective solution for a project. Baxter & Woodman understands the importance of finding the right solution. Our custom algorithms allow us to quickly and accurately model several scenarios until the best solution is found. Upon completion of the Preliminary Design Report, we will hold a review meeting with the Town of Highland Beach staff to review the preliminary design for approval before proceeding to the Final Design task.

- **FINAL DESIGN/CONTRACT DOCUMENT PREPARATION** – Preparation of contract documents is performed in stages based on the complexity of the project. Typical completion stages would be 60%, 90%, and 100%. Baxter & Woodman will prepare drawings, technical specifications, and construction cost opinions for each submittal stage to be reviewed by the Town staff. Within two weeks of submittal, a review workshop will be conducted to discuss Town staff comments. Comments are then incorporated into the following stage submittal. After the 60% review, test hole investigations will be conducted to physically

PROJECT SCHEDULE

Our proven project approach will allow us to develop a project schedule that will track the design, permitting, and construction of the Town's projects. The schedule will be reviewed and updated at each design submittal. It is important that each and every work authorization meet the established time schedule. The Project Manager will be responsible for schedule compliance.

Baxter & Woodman's principals review schedule compliance on a bi-monthly basis at project schedule control meetings and take appropriate action to prevent slippage when it first becomes apparent.

identify particular utilities to avoid potential conflicts with the proposed design. Permit applications will be submitted to Authorities Having Jurisdiction (AHJ) in parallel with the 90% stage submittal to Town staff. Comments from the AHJ and Town staff will then be incorporated into the 100% stage submittal for one final review by Town staff prior to completing the Bid Set contract documents. Internal QA/QC is performed prior to each submittal stage with our Construction Manager (who is a Certified General Contractor) performing a Constructability Review at the 90% stage.

Permitting

Florida is known throughout the nation as being a trend-setter in regulatory compliance. The regulatory structure of the permitting agencies are constantly changing with delegation of new State regulatory programs and with pending rule revisions that impact water resources, potable water and wastewater facilities, reuse programs, and storm-water systems, just to name a few .

Baxter & Woodman actively monitors Federal, State, and local regulatory requirements and rule revisions. We track and forecast critical regulations to ensure project design criteria does not become "outdated." Our regulatory services include preparation of permit applications and project completion certification documentation. Our familiarity with the rule makers and permitting staff at the various agencies simplifies the permitting process. Our goal is to help our clients meet regulatory compliance for all projects without "surprises" which may impact project objectives and schedules.

The complex interrelationship of the regulatory agencies can make permitting one of the most difficult project tasks to complete. Baxter & Woodman maintains a clear understanding of the relationships between State and local agencies to ensure an accurate and efficient permitting process for all projects. Baxter & Woodman has a strong professional relationship with all regulatory agencies in South Florida. This has been developed over many years of working with the various local, State and Federal regulatory agencies.

Based on Baxter & Woodman's familiarity with the Town and with the current regulations, we understand that some aspects of permitting will be more challenging than what other communities may face. SFWMD will be concerned about saltwater intrusion and may require that the Engineer, as opposed to the Contractor, design the dewatering plans and obtain the associated permits. We have done so on many occasions. Any changes to stormwater outfalls will also involve the USACOE and require underwater benthic surveys. We have obtained several permits in this regard and our team is prepared to meet these challenges.

During Preliminary Design, Baxter & Woodman will conduct pre-application meetings with the various permitting agencies to confirm permitting requirements prior to making the initial permit application submittal. During Final Design after review of the 60% submittal by Town staff, the Contract Documents are updated for the 90% submittal to the Town of Highland Beach and to the appropriate regulatory agencies for construction permits. Comments from Town staff and the regulatory agencies on the 90% submittal are incorporated into the final 100% Contract Documents.

Bidding

The bid review process is extremely important to select the contractor that is qualified to provide the construction services described in the bid documents. In all of our conventional design-bid-construct projects, Baxter & Woodman evaluates the bids submitted by the general contractors . The bids are typically evaluated for the following items:

- Bidder maintains a permanent place of business and is fully licensed.
- Bidder has adequate manpower and equipment to do the work properly and expeditiously.
- Bidder has suitable financial resources to meet the obligations of the work.

PROACTIVE AGENCY COORDINATION

It is very important that the regulatory agencies be involved in the project from the outset during a pre-application meeting.

This participation is vital to obtain information and direction, which may be critical to the success of the project. For this reason, we typically hold a pre-application conference with the regulatory agencies to discuss the project and troubleshoot any potential problems during the Preliminary Design task.

- Bidder will perform a specified percentage of the work using his own forces.
- Bidder's Project Manager is experienced in executing the required work.
- Subcontractors proposed for use are qualified to perform the work.
- Bidder meets insurance requirements.
- All bid forms are filled out correctly.
- The bid prices are mathematically correct if a unit price bid is used.
- All addendums are acknowledged.
- Bid Bond is submitted with bid.
- Baxter & Woodman checks the bidders' references. After Baxter & Woodman has evaluated the bids, we will typically recommend the lowest responsible and responsive bidder whose bid meets the requirements of the Contract Documents and provides the Town of Highland Beach the best value. In situations where the lowest bidder is not qualified, we then evaluate the second lowest bidder, and so forth, until a qualified bidder is identified.

The Bid Phase Services for this contract may include the following tasks:

- Review and provide edits to the Town of Highland Beach's "Front-End" documents.
- Coordinate with the Town's Procurement Services staff to distribute copies of the Contract Documents to the prospective bidders.
- Provide pre-bid services, such as assistance with advertisement, answering questions from potential bidders, and prepare responses and issue addenda to the plan-holders.
- Participate in Pre-Bid meetings with interested contractors and Town staff. Prepare responses as a result of the meeting, for issuance of addenda.
- Review bid packages received, document the due diligence process, and recommend award for the project.
- Prepare the required sets of conformed contract documents for execution by the selected contractor. The conformed sets will include addenda issued during the bid phase and the awarded contractor's schedule of bid items.

Construction Administration & Resident Project Representative

Close supervision and documentation is required to confirm that quality construction is provided. Baxter & Woodman provides full-service planning, resident inspection, management startup, operations, and maintenance of construction projects. Baxter & Woodman has conducted comprehensive construction management services on a number of projects in South Florida. Our experience includes construction of environmental and public works facilities, including wastewater/water treatment plants, pumping stations, underground utility pipeline infrastructure projects, drainage facilities, neighborhood infrastructure projects, parks, and streetscape/beautification projects. Construction administration and inspection services are provided by our in-house engineers, experienced inspectors (which include former utility inspectors and contractors), and FDOT D4 LAP projects construction management staff members.

Baxter & Woodman is available to provide construction administration throughout the construction contract period(s). We will work with Town staff to structure our construction management services (CMS) to fit your needs. In that way, we can work jointly with the Town to cover any facets of CMS without spending duplicate time (and cost). Baxter & Woodman can provide general construction administration duties such as:

- Administer the Town's contract with the contractors and ensure all contract conditions are met.
- Interpret and clarify plans and specifications throughout construction.
- Monitor and confirm the contractor obtains governmental and regulatory permits, inspections and approvals.
- Conduct site visits and direct construction meetings with the contractor.
- Field questions and phone calls from residents during construction.
- Transmit project closeout documentation to the Town.

Resident Project Representative (RPR)

Baxter & Woodman is prepared to provide complete construction inspection services to oversee construction activities in the field. The major field engineering responsibilities are summarized below:

- Serve as the Consultant's liaison with the contractor and Town staff.
- Conduct on-site observations to assist the Town in determining if the work is proceeding in accordance with the contract documents and that completed work conforms to the contract documents. Report in writing whenever we believe that the work is unsatisfactory, faulty, defective, or does not conform to the contract documents, or does not meet the requirements of inspections, tests or approval required to be made, or has been damaged prior to final payment.
- Coordinate, supervise, and review material sampling and testing, including concrete and soils testing, where appropriate.
- Coordinate necessary surveying consistent with requirements of the specifications.
- Accompany visiting inspectors representing public and regulatory agencies having jurisdiction over the project. Record in writing the outcome of these inspections and report same to the Town.
- Consider and evaluate the contractor's suggestions for modifications during construction and report them to the Town, in writing.
- Witness testing and/or procedures as required by the contract documents.
- Review as-built (Record Drawings) information from the contractor to confirm conformance to the contract documents.
- We will provide copies of the RPR's daily inspection reports and digital photographs. Daily inspection reports and photographs shall be sent to the Town via email on a weekly basis.
- RPR will work with the Contractor to develop and implement a Daily Quantity Sheet (based on the approved Schedule of Values) to be reviewed and accepted each day, agreeing to the quantities of the items installed, completed, and accepted. We will use this information to verify material quantities on monthly Applications for Payment.
- Attend Substantial Completion and Final Completion walk through and verify that all punch list items are completed by the contractor(s).

COMMUNICATION TOOLS DURING CONSTRUCTION

Working Together for Project Success

The key to our approach is working together with you and the contractor as a team. Construction Project Manager Richard Chipman, CGC is known and well respected throughout the construction community. His reputation and experience will help keep the project moving through project challenges that may develop during a project. The way to accomplish this is to meet often, communicate effectively, and listen to concerns and address them in a timely fashion.

Our team will provide the Town of Highland Beach with regular project status reports. These updates will help you and your staff keep current during the project and give you the opportunity to provide us with feedback.

Public Outreach

Baxter & Woodman is committed to implementing a comprehensive public involvement plan that prioritizes effective communication, community engagement, and the seamless execution of construction activities. Our approach emphasizes a diverse range of communication methods, carefully chosen to cater to the unique and varied needs of nearby stakeholders. Our communications tools include:

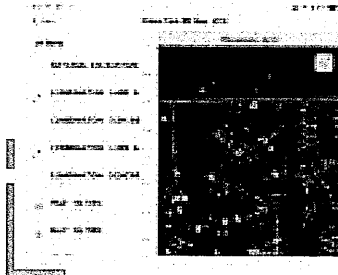
- Project Canvassing
- Social Media Updates
- Customized Project Websites
- Drone Footage and Visualization to Showcase Construction Progress



Websites are a great way to promote the benefits to the community

Construction Field Technology

Modernizing Construction Documentation to improve communication, data collection, record drawings, and project status reporting.



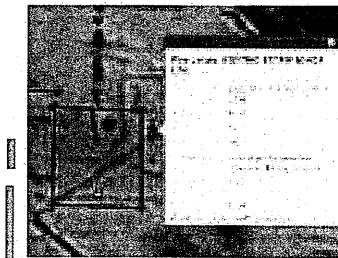
GIS-Based Systems

A GIS-based system that promotes communication between residents, contractors, and clients. This real-time, multi-user solution helps document interactions and track resolution progress. This process helps anticipate where additional notifications or community engagement is warranted. This workflow keeps all parties accountable.



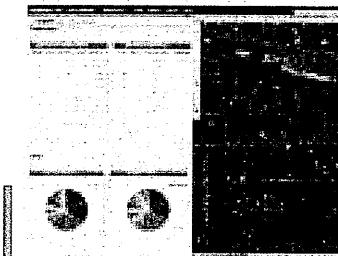
Spatial Technology Equipment

Our spatial technology equipment can capture real-time, multi-user spatial information including, photo support, and tabulation of quantities, and deficiency documentation. This equipment modernizes construction services, reducing the back and forth of quantity agreement and deficiency tracking, allowing more time to focus on what's important to the Client.



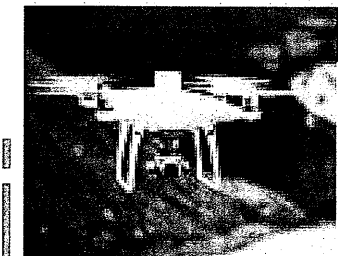
Specially Configured Field Applications

Utilizing specially configured field applications, our construction team can collect record drawings in the field to update CADD files and GIS databases. Our GIS-based system promotes recording of smart data, and when paired with our high accuracy GPS equipment ensures data is spatially accurate.



Smart Data Collection

Smart data collection means compatibility and seamless connectivity with other systems. Upon completion of a project we will deliver all collected data. Our data is built using industry standard GIS data models which are compatible with many Asset Management Systems, as well as compatibility with most modern GIS data schemas.



State-Of-The-Art Equipment

Utilizing state-of-the-art equipment, as-built assets can be accurately captured. This approach enables clients and contractors the ability to efficiently recover utility assets previously located in field, saving time, and reducing costly conflicts with future construction.

Quality Assurance/Quality Control

Our team recognizes the importance of a clear focus on providing a quality product. Our Quality Control Manager, Rebecca Travis, PE will monitor the implementation of the QC program on each task order and will ensure that all work is performed in conformance with the "QA/QC Plan." The committee will work with the project manager to select an appropriate senior reviewer for each delivery based on applicable experience and technical expertise .

Our Team's quality management program incorporates oversight of specific quality control functions to ensure that:

- Project staff including subcontractors are qualified to perform their duties and meet all regulatory and project specific training requirements. Items and services procured for the project meet necessary quality requirements.
- Quality related work is documented and the documents are managed and controlled.
- Computer hardware and software is controlled.
- Work is properly planned.
- Work procedures are established where necessary.
- Work is reviewed and quality processes are audited for effectiveness.
- Constructability is reviewed and addressed.
- Deficiencies are documented and effective corrective action is promptly completed.

Our Team's QA/QC program emphasizes to all project members that quality is not a "one time" kind of commitment, but rather is a continuous process of improvement. In addition, we utilize our construction managers to perform constructability reviews.

The quality of our designs stems from our commitment to being certified ISO 9001P:2015 for Quality Management System. Baxter & Woodman's design process has received this accreditation for demonstrating our ongoing dedication to quality by consistently satisfying our client's requirements and industry specifications.

Baxter & Woodman maintains the certification by:

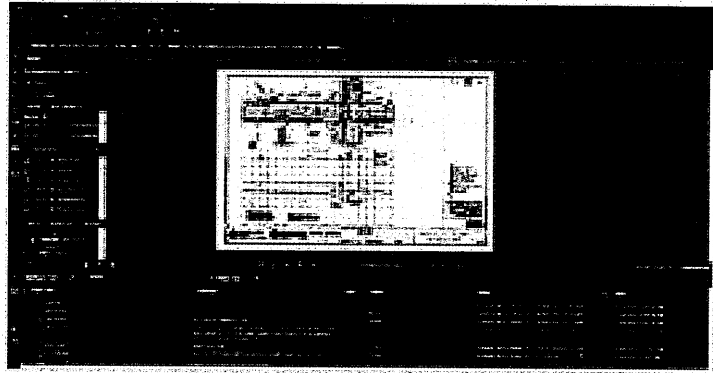
- Utilizing customized Quality Control/Quality Assurance checklists for each project
- Maintaining compliance with project deadlines
- Offering staff available to perform work
- Performing reviews of deliverables by senior staff

Baxter & Woodman utilizes Bluebeam Revu program to perform QA/QC of all deliverables. Bluebeam Revu is a powerful Portable Document File (PDF) program specifically developed for design professionals. Baxter & Woodman has developed a standard operating procedure (SOP) for reviewing documents using Bluebeam



Revu Studio Session that allows us to document comments from the design engineer, cad technician, and the senior reviewers simultaneously in real time.

The review process begins with the creation of a Bluebeam Studio Session. The design engineer will utilize tools within the program to draw or denote comments on the drawings that are recorded in a table with a "red" color status identifier. The cad technician can review the comments in



Bluebeam Revu Dashboard

real time and provide a response to the comment or change the status to "Corrected" which would change the color status identifier to "green."

Once all comments are updated to "Corrected" by the cad technician, a new set of drawing are printed for the senior reviewer to perform a backcheck. The status for all "Corrected" items will be updated to "Backchecked," which would change the color status identifier to "purple," by the senior reviewer to confirm the comments have been updated by the cad technician.

Once all "Corrected" statuses have been changed to "Backchecked," the senior reviewer will begin reviewing the new drawing. Comments by the senior reviewer will then be reviewed by the design engineer for further discussion or passed on to the cad technician to update. The senior reviewer will perform one final review of the updated drawings before submittal to the Town. All Bluebeam Studio Sessions are saved for record keeping and are available for the Town to review if desired.

Cost Estimates and Performance

Cost estimates will be prepared at each completion stage. The cost estimates will reflect changes in general scope, and additional design requirements that may be incorporated during the design review stages. This affords the Town the opportunity to make changes in project direction based on construction budget constraints.

Baxter & Woodman is committed to producing high quality, cost efficient products within required time frames. We are extremely familiar with the construction contractors in South Florida and are aware of bidding conditions that can affect the construction cost of a project. We monitor current inflation rates as tracked by the Bureau of Economic Analysis U.S. Department of Commerce when comparing past costs to current costs. The budget truly is the bottom line. The table below is a record of recent cost estimates compared to the awarded construction bid amount. This comparison demonstrates our competence and dedication to providing clients with accurate project estimating. This is the best physical evidence an engineering firm can present as demonstration of project cost control performance.

Client	Project	Engineer's Estimate	Base Bid
City of Boca Raton	Reclaimed Water Storage & Pumping Station	\$4,500,000	\$3,914,909
City of Boca Raton	On-Site Reclaimed Water Pumping Facility	\$811,000	\$730,000
City of Boca Raton	West Reclaimed Water Main Extension	\$1,768,437	\$1,577,425
City of Boynton Beach	Lakeside Gardens Utility Stormwater & Water Main Improvements	\$2,560,981	\$2,645,441
City of Delray Beach	Country Club Acres Infrastructure Improvements	\$1,515,811	\$1,377,027
City of Delray Beach	24" Reclaimed Water Main	\$321,522	\$271,364
City of Delray Beach	Sea Sage Drive/Melaleuca Road/Oleander Lane	\$984,063	\$1,126,755
City of Delray Beach	SW 12th/SW 11th Avenue Water Main	\$734,740	\$721,420
City of Delray Beach	Venetian Drive Infrastructure Improvements	\$1,495,164	\$1,458,795
City of Delray Beach	Area 1 Reclaimed Water System	\$1,484,995	\$1,312,100
City of Delray Beach	Area 2 & 3 Reclaimed Water System	\$1,500,000	\$1,731,265
City of Delray Beach	Area 11 Reclaimed Booster Pump Station	\$989,590	\$691,084
City of Tamarac	Tamarac Lakes Water Main Improvements	\$837,441	\$766,175
City of Tamarac	Southgate Boulevard Streetscape Improvements	\$1,499,717	\$1,239,469
City of Tamarac	McNab Road Water Main Improvements	\$477,250	\$486,832
Florida Keys Aqueduct Authority	Key Haven To Key West Force Main	\$3,490,000	\$3,120,771
Florida Keys Aqueduct Authority	Key Haven WWTP Decommissioning	\$661,948	\$344,693
Florida Keys Aqueduct Authority	Duck Key HDD Design & Permitting (Bimini Drive)	\$743,033	\$527,376
Florida Keys Aqueduct Authority	Duck Key HDD Design & Permitting (Harbor & Seaview Dr)	\$1,313,306	\$1,259,730
Florida Keys Aqueduct Authority	Wastewater Force Main Key Haven to Key West	\$3,490,000	\$3,120,770
Loxahatchee River District	South Seabrook Road Sewer System	\$1,689,931	\$1,494,589
Loxahatchee River District	Tidewater Drive Sewer System	\$290,081	\$274,156
Loxahatchee River District	Jupiter Highlands Low Pressure System	\$315,728	\$245,018
Monroe County	Koehn & Big Pine Shores	\$1,901,979	\$1,470,742
Palm Beach County	30" Reclaimed Water Main	\$368,520	\$299,705
Palm Beach County	FPL On-Site Reclaimed Water Facilities	\$3,600,000	\$2,722,000
Town of Gulf Stream	24" Stormwater Outfall	\$44,746	\$39,655
Town of Highland Beach	A.I.A. Water Main Replacement	\$3,200,000	\$2,714,707
Town of Lantana	Raw Water Supply Well No. 11	\$755,000	\$631,500
Town of Lantana	Raw Water Supply Well No. 12	\$400,000	\$341,400
Average (under Engineer's Estimate)			-11.63%

5. Resources, Availability, and Commitment

Project Team Availability

Baxter & Woodman is committed to serving the firm's existing clients and we carefully monitor the current and projected workload for each of our employees. We understand the importance of being responsive to our clients' needs, and we always consider the impact an awarded project will have on the workload of our staff.

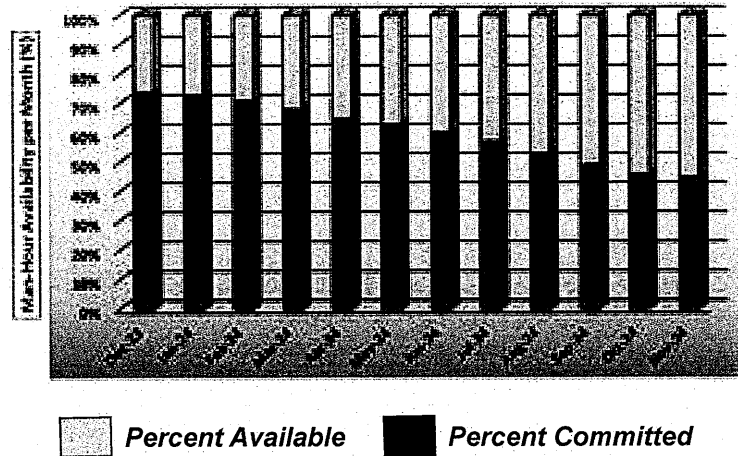
Workload responsibilities of all proposed team members have been reviewed, and the team presented in this statement can fully accept the responsibility of your projects. We are confident that - with our resources, experience, and manpower - we will provide you with

successful, efficient, and cost-effective engineering services that are completed on time and within budget.

We are happy to provide additional workload information on specific team members at your request.

Ample Support Staff

Our Project Managers are supported by 37 local professionals based out of our West Palm Beach and Orlando offices. Additional support is available from our national offices located in Illinois, Wisconsin, and Texas. Our combined workforce totals 400+ talented individuals made up of sanitary, civil, transportation, mechanical, structural, electrical, computer, and environmental engineers. The engineering staff is supported by trained technicians, licensed water and wastewater operators, licensed electricians, registered surveyors, GIS/GPS analysts, CAD operators, construction inspectors, and administrative assistants.



Number of Personnel Assigned to Each Project

Project teams are selected and assigned based on the level of expertise and specific scope of services needed for each of your projects. The structure of our organization is designed to involve you throughout all phases of your projects, promote open and continual communication between Town staff and the project team, and provide an experienced single point contact who has the authority to resolve issues in an expeditious manner.

Current Workload

The table below is a record of projects currently under contact. Baxter & Woodman has the ability to add the Town to our current workload while maintaining a high level of responsiveness and availability.

Primary Client	Project Name	Estimated Completion Date	Contract Amount
City of West Palm Beach	Hydraulic Modeling Support	6/1/2026	\$175,200.00
Town of Lantana	EPA Lead and Copper Rule Assistanc	10/16/2024	\$59,976.00
Town of Highland Beach	LS #3 Rehab - CSA	10/3/2024	\$89,935.22
City of Orlando	Lake Orlando Mgmt Plan Eval	10/1/2024	\$295,275.66
Brevard County	North Indian River Dr Shoreline Su	9/8/2024	\$281,598.00
City of West Palm Beach	LS #21 Preliminary Design Report	8/30/2024	\$110,125.20
City of Wilton Manors	Hagen Park Pickelball Courts	7/25/2024	\$53,096.00
Town of Lantana	Atlantic Drive Drainage Design	7/6/2024	\$169,440.00
City of Wilton Manors	2023 NPDES Program Management	6/30/2024	\$17,936.00
Town of Lantana	Ocean Ave Asset Assessment	6/28/2024	\$109,592.00
Palm Beach County Engineering and Public Works	Sims-Lakes of Delray to Atlantic	5/30/2024	\$452,780.00
City of West Palm Beach	WEPBC Lift Station 127	4/30/2024	\$180,188.80
City of Winter Park	Winter Park Eastern Basin Study	4/30/2024	\$194,124.16
Arlington Properties	Tyson Ranch Apartments Boggy Crk	4/3/2024	\$152,000.00
City of West Palm Beach	Lead Service Line Inventory Assis	3/30/2024	\$106,865.00
City of Wilton Manors	29th and 30th Water Main Improv	2/16/2024	\$148,370.00
City of West Palm Beach	Nora Streetscape and Utility Insp	1/31/2024	\$121,160.00
Town of Gulf Stream	Core Area Improvement	1/5/2024	\$846,440.00
Lakeland Linder International Airport	Lakeland Linder, Bajsa Hangar	1/31/2024	\$10,400.00
Lakeland Linder International Airport	Amazon Phase 1.25	1/31/2024	\$45,000.00
Palm Beach County Engineering and Public Works	Haverhill-Hypoluxo to Lantana Road	1/31/2024	\$609,807.90
Sentinel Capital Baywoods, LLC	Baywoods Development	1/31/2024	\$210,800.00
Town of Lantana	Water, WW & Strmwtr Mastr Plan/CIP	1/31/2024	\$212,959.74
Town of Lauderdale-By-The-Sea	Codrington Drive CMS	1/31/2024	\$45,303.08
Town of Lantana	Broadway & WTP AC Water Main Replc	1/31/2024	\$104,457.18

Technology

Engineering Software

The following are engineering software packages that are used as standard design tools for Baxter & Woodman:

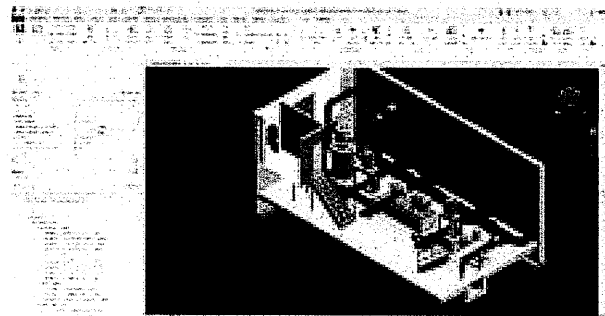
- AutoCAD 2022
- AutoCAD Civil 3D 2022
- AutoDeskCivil3D
- AutoDeskREVIT
- AutoCAD Electrical 2022
- AutoDesk Design Review 2022
- AutoCAD Infracore ICM
- InfraWorks 2022
- Revit 2022
- Bentley MicroStation PowerGeoPak
- Bentley OpenRoads
- Bentley PondPack
- Bentley FlowMaster
- Bentley WaterCAD and WaterGEMS
- Bentley ProjectWise
- Bentley Storm CAD
- Bluebeam Revu 20
- ESRI ArcGIS Pro 2.7
- ESRI ArcGIS for Desktop
- McTrans HCS 2010
- Streamline Technologies ICPR4 1-D and 2-D
- Innovyze xpswmm
- InfoWater
- FDOT and WisDot installer for Microstation
- HEC-1, HEC-2, HEC-HMS, HEC-RAS
- Enercalc

3D Project Visuals

Baxter & Woodman utilizes a variety of software (REVIT, AutoCAD MEP 3D, SketchUp, etc) to produce 3D project renderings, which results in enhanced input during design. This allows the City, your staff, and the public to see the final product before it is constructed.

During progress meetings, these representations can be used to visualize the project layout and discuss your comments. Accurate drawings can also save you money by allowing for easy identification of conflicts and elimination of potential change orders. These can also be used at public information meetings to help gain the community's support for projects.

Baxter & Woodman is also highly experienced in the use of Autodesk InfraWorks software to build 3D models from AutoCAD files for a variety of uses. Please see below for a detailed explanation.



Revit 3D model

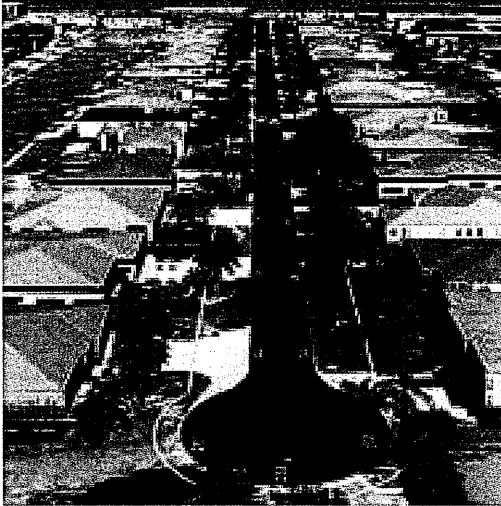


Rendering of proposed improvements

Translating Software Data into 3D Models

The visualization of infrastructure improvements has never been more important. The use of compelling visuals clearly conveys to key stakeholders the benefits of the project. One software that Baxter & Woodman engineers have been using more frequently is InfraWorks.

CONCEPTUAL VIEW



ENGINEERING VIEW



What is InfraWorks?

InfraWorks is a product distributed by Autodesk, the makers of AutoCAD, that allows users to view AutoCAD Civil 3D information as a 3D model with the ability to move within the model to visualize the project. The user has the ability to visualize the project in "Conceptual" and "Engineering" view as shown below. The Engineering view turns the landscape transparent so that the utilities can be seen from aboveground. The utilities are also visible by holding down the mouse button and dragging the screen until the view appears from a below-ground perspective.

How Does InfraWorks Work?

An InfraWorks project can be created from AutoCAD Civil 3D files which store AutoCAD lines, points and polygons in three dimensions. Combining this with a Civil 3D surface and high-resolution aerial imagery provides the base work for the InfraWorks model. The program can identify buildings and auto-generate 3D renderings. The user can then adjust the height and appearance of the buildings to match existing conditions or new buildings can be added by manually drawing the building or by importing a 3D model of a building created using other software such as Revit. Vegetation can be added to the model by selecting from a database of trees and other types of vegetation, then customized to match existing vegetation or to show where landscaping is proposed.

How is InfraWorks Used?

InfraWorks is a useful tool for engineers to verify and resolve underground conflicts, especially in tight, congested areas. It is especially useful for public outreach meetings and can be used to promote positive public support regarding areas of concern. Creating exhibits using InfraWorks provides an interactive experience between engineers and municipalities as well as project stakeholders. Like AutoCAD, layers can be turned on and off to illustrate where new features are planned, such as swales and landscaping, and where underground infrastructure will be placed. Likewise, it can be used at municipal commission meetings to demonstrate options for improvements and to take the commissioners on a tour of their underground infrastructure.

Financial Stability of the Firm

Baxter & Woodman, Inc. has been providing consulting engineering for 78 years. During this time, the firm has continued to grow in terms of staffing, clients served, and billings, which equals financial stability. As a privately held corporation, we do not release our financial statements. However, we have included a letter of reference from our bank - St. Charles Bank.



April 3, 2023

To: Whom It May Concern

Re: Baxter & Woodman, Inc.

I am pleased to inform you that Baxter & Woodman, Inc. has been a valued customer of St. Charles Bank & Trust Company since 2010. They maintain balances in their deposit accounts in the mid-seven figures, and have handled all loan accounts as agreed. They are currently in compliance with all covenants set forth by their loan agreement.

If you require additional information, please contact me.

Sincerely,



Richard A. Davis
Chairman & CEO
1001 S. Randall Road
Elgin, IL 60123

Phone: 630-563-7916
Fax: 847-429-6773
RDavis2@bankstcharles.com

411 W. Main Street – St. Charles, Illinois 60174 - 630-377-9500



Time and Budget Controls

Time Control

We monitor our projects' progress on a bi-weekly basis to verify our timing projections are accurate and that we are performing per your schedule. This schedule monitoring occurs on projects throughout study, design, and construction. We believe that frequent and effective communication between you and our staff is the critical element in successful schedule management. We accomplish this through:



The efficient use of specialized project management software to develop our project plans. This allows us to track project status, schedules, and costs, and notifies the Project Managers of schedule/cost variations in time to take corrective action.



Project status reports that will keep you apprised of our work.



Regular status meetings with our Project Manager and your staff in order to discuss existing and future work, and how we can meet your schedule goals.

Budget Control

One of the biggest challenges in any project is to maintain control of the budget. It is especially critical during the construction phase wherein increases in the budget can occur due to construction contract Change Orders. Baxter & Woodman is proud of its ability to control costs during each project phase. We use our Construction division Project Managers to prepare cost estimates during planning, preliminary, and final design stages of a project. Back-checking cost estimates at each stage allows us to verify there has not been "budget creep" resulting from project enhancements. This extra attention to budget control confirms our engineers' estimates of final construction cost will be accurate. Construction Change Orders are minimized due to the accuracy and thoroughness of our design drawings and specifications. We routinely receive compliments from Contractors and material suppliers regarding the thoroughness of our construction contract plans. Evidence of this is further indicated by the tight grouping of construction bids our clients receive on projects. The thoroughness and accuracy of these construction documents result in savings to our clients for two reasons:

Lower Construction Bids

The construction bids are lower because the Contractors do not build in risk factors due to unknown conditions or requirements.

Minimal Change Orders

Change Orders are minimized because the documents show the requirements and the Contractors cannot claim conflicts or the need for additional work.

We control our own engineering fee budgets in a similar manner. The personnel projections and cost estimates are carefully prepared during the Proposal stage, based upon our understanding of the project scope and our client's expectations. These understandings are confirmed during the negotiation when engineering fees are confirmed and agreed upon. We monitor our costs bi-weekly to verify our projections are accurate and that we are not incurring costs higher than expected. Baxter & Woodman maintains a strong client-focused philosophy. We try to avoid requests for additional compensation and will do so only if there is a clear increase in the scope of the engineering services. Typically, our actual fee is less than the Not-to-Exceed fee for the project, and savings are passed on to the Town.

6. References

Town of Gulf Stream Core Area Water, Storm, and Roadway Improvements

100 Sea Road
Gulf Stream, FL 33483
Greg Dunham
Town Manager
E: gdunham@gulf-stream.org
P: 561-455-3188

Town of Lake Park Lake Shore Drive Road and Drainage Improvements

535 Park Avenue
Lake Park, FL 33403
John Wille
Capital Projects Manager
E: jwille@lakeparkflorida.gov
P: 561-881-3311

Lauderdale-By-The-Sea Pavement Assessment

4501 North Ocean Drive
Lauderdale-By-The-Sea, FL 33308
Ken Rubach
Deputy Town Manager/Public Works Director
E: kenr@lbts-fl.gov
P: 954-640-4233

City of West Palm Beach 26, 45, 51 Lift Stations Rehabilitation

401 Clematis St, 4th Floor
West Palm Beach, FL 33401
Laura Le, PE
Public Utilities Administration
E: LLe@wpb.org
P: 561-494-1093

Palm Beach County Engineering and Public Works Sims Road Improvements (from Lakes of Delray Boulevard to Atlantic Avenue)

2300 N. Jog Road
West Palm Beach, Florida 33411-2745
Hui Shi, P.E.
Engineering and Public Works
E: hshi@pbcgov.org
P: 561-684-4073

Town of Lantana Sea Pines Stormwater Pump Station

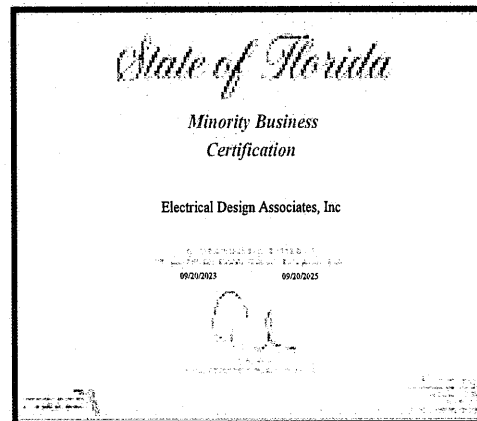
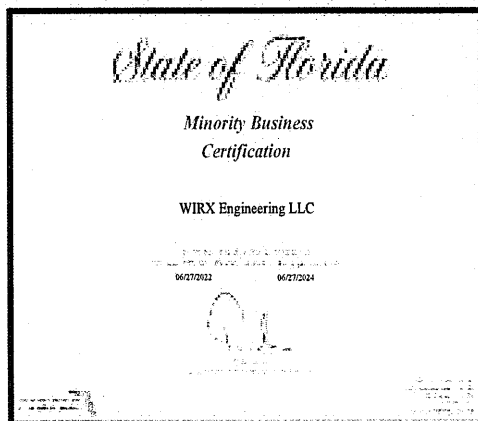
510 West Pine Street
Lantana , FL 33462
Eddie Crockett
Public Services Director
E: ecrockett@lantana.org
P: 561-540-5753

7. Certified Minority Business Enterprise

Baxter & Woodman, Inc., is not an SBE/MBE/DBE business, however, for this submittal we are using the following SBE/MBE/DBE firms:

- **Dennis J. Leavy & Associates** for Survey - SBE Firm
- **WIRX Engineering, LLC** for Geotechnical & Materials Testing - S/MBE Firm
- **Electrical Design Associates** for Electrical Services - S/MBE Firm

Address(es): 460 Business Park Way Suite B, Royal Palm Beach 33411 460 Business Park Way Suite B, Royal Palm Beach 33411 460 Business Park Way Suite B, Royal Palm Beach 33411		Contact(s): DAVID BOWER 561-753-0650
Email(s): SURVEY@DJLASURVEY.NET		WebSite:
Commodity / Services		
92586	Surveyor Services, Land	
96164	Satellite Global Information Positioning System Services	
96252	Mapping & Geographical Information Systems (GIS) Services	
EBO Certification		
Type: SBE	Certified: 2/25/2022	Expire: 2/24/2025
Business Owner(s): David Bower, Dennis Leavy, Tara Leavy		
Race: White	Gender: Male	B Classes: Prof. Services (CCNA)
EBO Certified Commodity / Services		
92586	Surveyor Services, Land	
96252	Mapping & Geographical Information Systems (GIS) Services	
<p>Note: The Office of Equal Business Opportunity (OEO) requires current licensure at the time of certification, but does not guarantee the continued existence of any license held by a certified small business. The users of this directory should investigate the continuance of such credentials. OEO does not accept liability for any loss or damage caused by errors, changes or omissions.</p>		



Submittal Forms

FIRM ACKNOWLEDGEMENT

Submit RFQ's to: Town Clerk's Office
Town of Highland Beach
3614 South Ocean Blvd.
Highland Beach, FL 33487
Telephone: 561-278-4548

RFQ Title: "CONTINUING PROFESSIONAL CONSULTING SERVICES (CCNA)"
RFQ Number: 24-001

RFQ Due: January 10, 2024, NO LATER THAN 2:00 P.M. (LOCAL TIME)

Proposals will be publicly opened and recorded for acknowledgement of receipt, unless specified otherwise, on the date and time indicated above and may not be withdrawn within ninety (90) days after such date and time.

All Contracts entered as a result of this RFQ shall conform to applicable sections of the Town Charter and Town Code of Ordinances.

Name of Firm: Baxter & Woodman, Inc.

Federal I.D. Number: 36-2845242

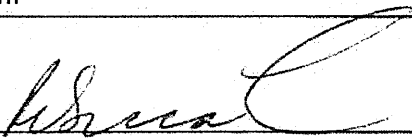
A Corporation of the State of Florida

Telephone No.: 561.425.7715

Mailing Address: 1601 Forum Place, Suite 400

City / State / Zip: West Palm Beach, FL 33401

Email Address: rtravis@baxterwoodman.com



Authorized Signature

SERVICES TO BE CONSIDERED - PLEASE CHECK OFF EACH TO BE PROVIDED

Civil Engineering

Water/Wastewater/Stormwater

Architecture

Landscape Architecture

Geotechnical

Transportation

Mechanical/Electrical/Plumbing

Other Services (Please list below)

GIS Asset Management

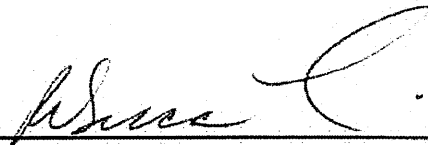
Vulnerability/Resiliency/Sea Level Rise

CONFIRMATION OF DRUG-FREE WORKPLACE

Preference shall be given to businesses with drug-free workplace programs. In order to be considered having a drug-free workplace program, the Firm shall:

- 1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employee that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
- 6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

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



Authorized Signature

PALM BEACH COUNTY INSPECTOR GENERAL

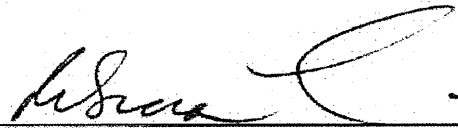
ACKNOWLEDGMENT

The Firm is aware that the Inspector General of Palm Beach County has the authority to investigate and audit matters relating to the negotiation and performance of this contract, and in furtherance thereof may demand and obtain records and testimony from the Firm and its subcontractors and lower tier subcontractors.

The Firm understands and agrees that in addition to all other remedies and consequences provided by law, the failure of the Firm or its subcontractors or lower tier subcontractors to fully cooperate with the Inspector General when requested may be deemed by the Town to be a material breach of this contract justifying its termination.

Baxter & Woodman, Inc.

FIRM NAME

By: 

Rebecca Travis, PE

Title: Executive Vice President/Florida Division Manager

Date: January 4, 2024

**CERTIFICATION PURSUANT TO FLORIDA
SECTION 287.135, FLORIDA STATUTES**

Rebecca Travis, PE
Executive Vice President/
I, Florida Division Manager, on behalf of Baxter & Woodman, Inc. certify
Print Name and Title Company Name

That Baxter & Woodman, 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.

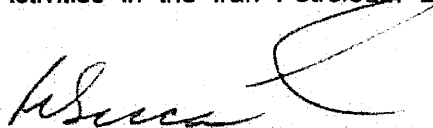
Submitting a false certification shall be deemed a material breach of contract. The Town shall provide notice, in writing, to the Contractor of the Town's determination concerning the false certification. The Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Contractor does not demonstrate that the Town's determination of false certification was made in error then the Town 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 Town 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 Town for goods or services may be terminated at the option of the Town 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.

Baxter & Woodman, Inc.
COMPANY NAME


SIGNATURE

Rebecca Travis, PE
PRINT NAME

Executive Vice President/Florida Division Manager
TITLE

**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 Town of Highland Beach (the "Town") by:

Rebecca Travis, PE, Executive Vice President/Florida Division Manager

(Print individual's name and title)

For: Baxter & Woodman, Inc.

(Print name of entity submitting sworn statement)

Whose business address is:

1601 Forum Place, Suite 400, West Palm Beach, FL 33401

And (if applicable) its Federal Employer Identification Number (FEIN) is: 36-2845242

(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 misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), FLORIDA STATUTES, means a finding 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 (1) 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 (1) person controls another person.

A person who knowingly enters a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (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 of the United States with the legal power to enter into a binding contract and which bids 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, which I have marked below, is true in relation to the entity submitting this sworn statement (indicate which statement applies).

X Neither the entity submitting this sworn statement, nor any of its 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.

_____ 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.

_____ The entity submitting this sworn statement, or one (1) 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 Bidder list. (Attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICE 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.

Date: January 4, 2024

[Signature]
Signature

STATE OF FLORIDA

COUNTY OF Florida

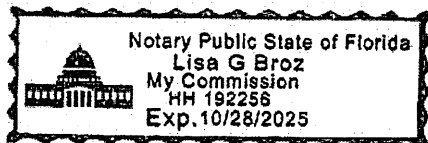
The foregoing instrument was acknowledged before me this 4th day of January, 2024, by,

Rebecca Travis, PE,
Executive Vice President/
as Florida Division Manager (title) of Baxter & Woodman, Inc. (name of company), on behalf of Baxter & Woodman, Inc. (type of entity).

X who is personally known to me,
_____ who produced _____ as identification, who did take an oath, and who acknowledged before me that he executed the same freely and voluntarily for the purposes therein expressed.

[Signature]
Signature

Lisa G. Broz
Print Name



NOTARY PUBLIC – STATE OF FL
My Commission Expires: 10/28/2025
Commission No.: HH 192256

ADDENDA ACKNOWLEDGEMENT

TOWN OF HIGHLAND BEACH, FLORIDA

RFQ TITLE: "CONTINUING PROFESSIONAL CONSULTING SERVICES (CCNA)"

RFQ NO.: 24-001

DATE SUBMITTED: January 9, 2024

We propose and agree, if this submittal is accepted, to contract with the Town of Highland Beach, in the Contract Form, to furnish all material, means of transportation, coordination, labor and services necessary to complete/provide the work specified by the Contract documents.

Having studied the documents prepared by: The Town of Highland Beach

We propose to perform the work of this Project according to the Contract Documents and the following addenda which we have received:

ADDENDUM	DATE	ADDENDUM	DATE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

 X NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS RFQ

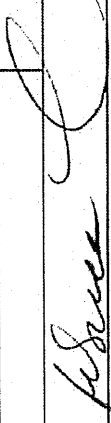
**RFQ No.: 24-001
CONTINUING PROFESSIONAL CONSULTING SERVICES (CCNA)**

SCHEDULE OF SUB-CONSULTANTS

The Undersigned Respondent proposes the following major subcontractors for the major areas of work for the Project. The Respondent is further notified that all sub-consultants shall be properly licensed, bondable and shall be required to furnish the Town with a Certificate of Insurance in accordance with the contract general conditions. This page may be reproduced for listing additional sub-consultants, if required. If not applicable or if no-sub-consultants will be used in the performance of this work, please sign and date the form and write "Not-Applicable" or "NONE" across the form.

<u>Name of Sub-Consultant</u>	<u>Address of Sub-Consultant</u>	<u>License No.:</u>	<u>Contract Amount</u>	<u>Percentage (%) of Contract</u>
Cyriacks Environmental Consulting Services, Inc. (CECOS)	3001 SW 15th Street, Suite B Deerfield Beach, FL 33442	90-0106680		TBD
Dennis J. Leavy & Associates, Inc.	460 Business Park Way, B, Royal Palm Beach, FL 33411	65-0529801		TBD
Electrical Design Associates, Inc.	7284 W Palmetto Park Rd Suite 302-S Boca Raton FL 33433	65-0868970		TBD
WRX Engineering LLC	515 E Las Olas Boulevard, Ste 120 Fort Lauderdale, FL 33301	82-3346253		TBD

Date: January 4, 2024

Signature 
 Title/Company Executive Vice President/Florida Division Manager
 Baxter & Woodman, Inc.

Owner reserves the right to reject any sub-consultant who has previously failed in the proper performance of an award, or failed to deliver on time contracts in a similar nature, or who is not responsible (financial capability, lack of resources, etc.) to perform under this award. Owner reserves the right to inspect all facilities of any sub-consultant in order to make a determination as to the foregoing.

Certificate of Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/18/2023

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 Holmes Murphy & Associates 2727 Grand Prairie Pkwy Waukegan IA 50263	CONTACT NAME: Beau Murray	
	PHONE (A/C, No, Ext): 608-242-2558	FAX (A/C, No):
E-MAIL ADDRESS: BMurray@holmesmurphy.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Valley Forge Insurance Company		20508
INSURER B: The Continental Insurance Company		35289
INSURER C: Continental Casualty Company		20443
INSURER D:		
INSURER E:		
INSURER F:		

INSURED
 Baxter & Woodman, Inc
 8678 Ridgefield Road
 Crystal Lake, IL 60012

COVERAGES **CERTIFICATE NUMBER:** 1675505321 **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:		7017821337	1/1/2024	1/1/2025	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 <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY		7017833701	1/1/2024	1/1/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		P7017835416	1/1/2024	1/1/2025	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
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	717818681	1/1/2024	1/1/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional Liability Claims made form		AEH591900841	1/1/2024	1/1/2025	Per claim \$5,000,000 Aggregate \$10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Re: All projects of the named insured subject to policy terms & conditions.

CERTIFICATE HOLDER Baxter & Woodman, Inc. 8678 Ridgefield Rd. Crystal Lake IL 60012	CANCELLATION 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
---	--

Licenses, Registrations, & Certifications - Baxter & Woodman, Inc.

Firm Licenses

State of Florida Department of State

I certify from the records of this office that BAXTER & WOODMAN, INC. is an Illinois corporation authorized to transact business in the State of Florida, qualified on May 2, 2016.

The document number of this corporation is F16000002059.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on March 28, 2023, and that its status is active.

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

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Thirtieth day of May, 2023



[Signature]
Secretary of State

Tracking Number: 3111769816CU

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

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

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

dbpr

HOME CONTACT US MY ACCOUNT

11/23/2024 4:10:02

ONLINE SERVICES LICENSEE DETAILS

Licensee Information

Name: BAXTER & WOODMAN, INC. (Illinois Name)

Main Address: 8525 ROOSEVELT BOULEVARD
CRYSTAL LAKE, ILLINOIS 60012

County: DUW OF STATE

License Information

License Type: Engineering Business Registry

Registration: 31751

License Number: 00110016

Special Qualifications: Qualification Effective

Abstract Name:

FDOT
Florida Department of Transportation

605 Suwannee Street
Tallahassee, FL 32399-0450

RON DESANTIS GOVERNOR JARED W. FERDIE, P.E. SECRETARY

June 23, 2023

Louis Haussmann, Executive Vice President/COO
BAXTER & WOODMAN, INC.
477 South Rosemary Avenue, Suite 330
West Palm Beach, Florida 33401

Dear Mr. Haussmann:

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 types of work:

- Group 3 - Highway Design - Roadway
 - 3.1 - Minor Highway Design
 - 3.2 - Major Highway Design
- Group 4 - Highway Design - Bridges
 - 4.1.1 - Miscellaneous Structures
 - 4.1.2 - Minor Bridge Design
- Group 5 - Bridge Inspection
 - 5.1 - Conventional Bridge Inspection
- Group 6 - Traffic Engineering and Operations Studies
 - 6.1 - Traffic Engineering Studies
 - 6.2 - Traffic Signal Timing
 - 6.3.1 - Intelligent Transportation Systems Analysis and Design
- Group 7 - Traffic Operations Design
 - 7.1 - Signing, Pavement Marking and Channelization
 - 7.3 - Signalization
- Group 10 - Construction Engineering Inspection
 - 10.1 - Roadway Construction Engineering Inspection
 - 10.4 - Minor Bridge & Miscellaneous Structures CEI
- Group 13 - Planning
 - 13.5 - Subarea/Corridor Planning
 - 13.6 - Land Planning/Engineering

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, 2024, for contracting purposes.

Approved Rates				
Home/Branch Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense
165.67%	0.750%	Reimbursed	No	4.63%

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,
Carliayn Kell
Carliayn Kell
Professional Services
Qualification Administrator

Personnel Licenses

STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
 THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

TRAVIS, M. REBECCA
 1775 ROSEMARY AVE SUITE 330
 1100 BAXTER & WOODMAN, INC.
 WEST PALM BEACH, FL 33411

LICENSE NUMBER: PE40988
 EXPIRATION DATE: FEBRUARY 28, 2025
 Always verify licenses online at MyFloridaLicense.com

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QUALIFIED STORMWATER MANAGEMENT INSPECTOR

The undersigned hereby acknowledges that
M. Travis
 has successfully met all requirements necessary to be fully qualified through the Florida Department of Environmental Protection Stormwater Erosion and Sedimentation Control Inspector Training Program

February 2, 2018
 License Number 54117

Ned Sanford
 License Number 54117

LEED GREEN ASSOCIATE

Rebecca Travis
 LEED Green Associate™

LEED Green Associate™
 by meeting the requirements and meeting all other requirements of the LEED Green Associate™ program.

W. J. Campbell

MARY TRAVIS
 ENVISION SUSTAINABILITY PROFESSIONAL

May 18, 2014
 License Number
 Dec 08, 2023
 License Number

M. Travis

STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
 THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HISCOCK, JEFFREY G
 1002 WILLOW BLVD
 PALM BEACH GARDENS, FL 33418

LICENSE NUMBER: PE69808
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
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PRINYAVITKUL, SIRAJ
 2018 FOREST VIEW COURT
 WEST PALM BEACH, FL 33411

LICENSE NUMBER: PE66657
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
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WEATHERFORD, JEFFREY STUART
 1222 CARRIBAGE PORTALS LOOP
 APOPKA, FL 32718

LICENSE NUMBER: PE72946
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
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WILLIAMS, ZACHARY ELDON
 146 EASTERN FORK
 LONGWOOD, FL 32750

LICENSE NUMBER: PE67718
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
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BUZZELL, BRANDON LEE
 4599232
 EAGLE GROVE, FL 32929

LICENSE NUMBER: PE82007
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
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HARRIS, JOSHUA SCOTT
 5606 ALBERTA DR
 WINTER, FL 32789

LICENSE NUMBER: PE72097
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
 THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HURLEY, ARTHUR JAKE
 3625 SWANSH TRAIL
 DELRAY BEACH, FL 33483

LICENSE NUMBER: PE76074
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BOARD OF PROFESSIONAL ENGINEERS
 THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SHOTTON, ALEXIS RENEE
 820 7TH STREET SE
 LAKE PARK, FL 33403

LICENSE NUMBER: PE74766
 EXPIRATION DATE: FEBRUARY 28, 2025
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STATE OF FLORIDA
 BOARD OF PROFESSIONAL ENGINEERS
 THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SCOTT, KYLE
 5745 FORT CONCORDE LANE
 ORLANDO, FL 32829

LICENSE NUMBER: PE17854
 EXPIRATION DATE: FEBRUARY 28, 2025
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Subconsultants Licenses, Registrations, & Certifications

Dennis J. Leavy & Associates Firm Licenses

2023 FLORIDA PROFIT CORPORATION ANNUAL REPORT
 DOCUMENT# P94000043073
 Entity Name: DENNIS J. LEAVY & ASSOCIATES, INC.
 Current Principal Place of Business:
 460 BUSINESS PARK WAY
 B
 ROYAL PALM BEACH FL 33411
 Current Mailing Address:
 460 BUSINESS PARK WAY
 B
 ROYAL PALM BEACH FL 33411 US
 FEI Number: 65-0529801
 Certificate of Status Desired: Yes
 Name and Address of Current Registered Agent:
 LEAVY, DENNIS J
 460 BUSINESS PARK WAY
 B
 ROYAL PALM BEACH FL 33411 US
 The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.
 SIGNATURE: _____
 Electronic Signature of Registered Agent Date
Officer/Director Detail :

Title	PD	Title	DST
Name	LEAVY, DENNIS J	Name	LEAVY, TARA L
Address	460 BUSINESS PARK WAY, SUITE B	Address	460 BUSINESS PARK WAY, SUITE B
City-State-Zip:	ROYAL PALM BEACH FL 33411	City-State-Zip:	ROYAL PALM BEACH FL 33411

Title	V
Name	BOWER, DAVID A
Address	460 BUSINESS PARK WAY, SUITE B
City-State-Zip:	ROYAL PALM BEACH FL 33411

 I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath, that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes, and that my name appears above, or on an attachment with all other like empowered.
 SIGNATURE: DAVID A. BOWER VICE PRESIDENT 02/16/2023
 Electronic Signature of Signing Officer/Director Detail Date

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.: LB6599
 Expiration Date: February 28, 2025

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

DENNIS J LEAVY & ASSOCIATES INC
 460 BUSINESS PARK WAY STE B
 ROYAL PALM BEACH FL 33411-1710

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.

Dennis J. Leavy & Associates Personnel 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 License No.: LS5888
 Expiration Date February 28, 2025

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

DAVID A BOWER
 460 BUSINESS PARK WAY STE B
 ROYAL PALM BEACH, FL 33411-1710

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.

WIRX Engineering, LLC Firm Licenses


**State of Florida
Department of State**

I certify from the records of this office that WIRX ENGINEERING LLC is a limited liability company organized under the laws of the State of Florida, filed on November 7, 2017, effective January 1, 2018.

The document number of this limited liability company is L17000229939.

I further certify that said limited liability company has paid all fees due this office through December 31, 2023, that its most recent annual report was filed on January 18, 2023, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-second day of May, 2023



[Signature]
Secretary of State

Tracking Number: 8286042356CU

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

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

dbpr Department of Business & Professional Regulation HOME CONTACT US MY ACCOUNT

ONLINE SERVICES **LICENSEE DETAILS** 11:44:31 AM 5/22/2023

Apply for a License
View a Licensee
View Food & Lodging Inspections
File a Complaint
Continuing Education Course Search
View Application Status
Find Exam Information
Unlicensed Activity Search
ABAT Delinquent Invoice & Activity List Search

Licensee Information
Name: WIRX ENGINEERING, LLC (Primary Name)
Main Address: 515 E LAS OLAS BOULEVARD SUITE 120 FORT LAUDERDALE Florida 33301
County: BROWARD

License Information
License Type: Engineering Business Registry
Rank: Registry
License Number: 34112
Status: Current
Licensure Date: 04/30/2020
Expires:

FDOT
Florida Department of Transportation

RON DE SANTIS GOVERNOR JARED W. FERDIE, P.E. SECRETARY

July 6, 2023

Gregory Stelmack, Managing Partner
WIRX ENGINEERING LLC
515 East Las Olas Boulevard, Suite 120
Fort Lauderdale, Florida 33301

Dear Mr. Stelmack:

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 types of work:

Group 9 - Soil Exploration, Material Testing and Foundations

9.1 - Soil Exploration
9.2 - Geotechnical Classification Laboratory Testing
9.4.1 - Standard Foundation Studies

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. Your firm may pursue projects in the referenced work types with fees estimated at less than \$500,000.00. This status shall be valid until July 6, 2024, for contracting purposes.
*Limit for FDOT projects only

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4587.

Sincerely,
Carliayn Kell
Carliayn Kell
Professional Services
Qualification Administrator

ANNE M. GANNON P.O. Box 3353, West Palm Beach, FL 33402-3353 "LOCATED AT" 422 MEADOWLARK DR JUPITER FL 33458
CONSTITUTIONAL TAX COLLECTOR www.pbctax.com Tel: (561) 355-2284
Serving Palm Beach County

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT # DATE PAID	AMT PAID	BILL #
ENGINEER BUSINESS	WIRX ENGINEERING LLC	34112	823.686372 8/9/2023	33.00	B40187845

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

**STATE OF FLORIDA
PALM BEACH COUNTY
2023 / 2024 LOCAL BUSINESS TAX RECEIPT
LBTR Number: 2023154138
EXPIRES: 9/30/2024**

WIRX ENGINEERING LLC
WIRX ENGINEERING LLC
515 E LAS OLAS BLVD SUITE 120
FORT LAUDERDALE FL 33301

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

State of Florida

Minority Business
Certification

WIRX Engineering LLC

Identified under the provisions of
24C and 25C, 18F, Florida Statutes, by original filing:
06/27/2022 06/27/2024

[Signature]
11/04/2023

MODIFICATION
Palm Beach County
Office of Equal Business Opportunity

Certifies That
WIRX Engineering, LLC
Vendor # WIR000027120

is a Small Minority Business (October 25, 2022) as provided for under 24C.21 - 24C.30 of the Palm Beach County Code as it has been amended.
May 8, 2023 to April 16, 2024

The following services and/or products are covered under this certification:
Civil Engineering; Civil Engineering Services; General; Dam Engineering; Damages Engineering; Engineering Consulting; Field Engineering; Foundation Engineering; Geotechnical Engineering; Geotechnical - Soils; Geotechnical Drilling and Borings Services; Geotechnical Engineering; Geotechnical Foundation DBE Services; Inspection Services; Construction Type; Irrigation; Drainage; Flood Control Engineering; Urban Engineering and Urban Analysis Services; Professional

See Back Cover of Office of Equal Business Opportunity

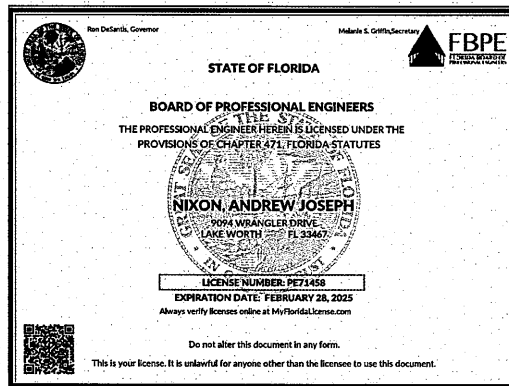
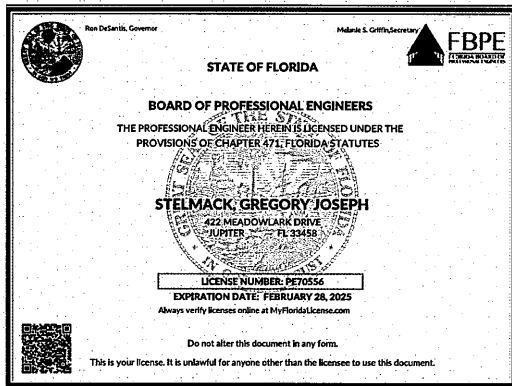
**Florida Unified Certification
Program**
Disadvantaged Business Enterprise (DBE)
Certificate of Eligibility

WIRX ENGINEERING LLC

MEETS THE REQUIREMENTS OF 49 CFR PART 26
APPROVED NAICS CODES:
237990, 541330

Laura Pichler
DBE & Small Business Development Manager
Florida Department of Transportation

WIRX Engineering, LLC Personnel Licenses



CECOS Firm Licenses

2023 FLORIDA PROFIT CORPORATION ANNUAL REPORT
 DOCUMENT# P03000078714
 Entity Name: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES INC.
 Current Principal Place of Business:
 3001 SW 15TH STREET
 SUITE B
 DEERFIELD BEACH, FL 33442
 Current Mailing Address:
 3001 SW 15TH STREET
 SUITE B
 DEERFIELD BEACH, FL 33442
 FEI Number: 90-0106680
 Name and Address of Current Registered Agent:
 CYRIACKS, WENDY
 3001 SW 15TH STREET, SUITE B
 DEERFIELD BEACH, FL 33442 US
 Certificate of Status Desired: Yes

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: _____ Date _____
 Electronic Signature of Registered Agent

Officer/Director Detail :

Title	Name	Address	City-State-Zip
PTD	CYRIACKS, WENDY M	3001 SW 15 ST STE B	DEERFIELD BEACH FL 33442
VP	GUZMAN, GUILLERMO	3001 S.W. 15 STREET SUITE B	DEERFIELD BEACH FL 33442

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath, that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes, and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: GUILLERMO GUZMAN
 Electronic Signature of Signing Officer/Director Detail

VP
 Date: 01/05/2023

Electrical Design Associates Firm Licenses

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

dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

11:43:27 AM 7/26/2023

ONLINE SERVICES

- Apply for a License
- Verify a License
- View Food & Lodging Inspections
- File a Complaint
- Continuing Education Course Search
- View Application Status

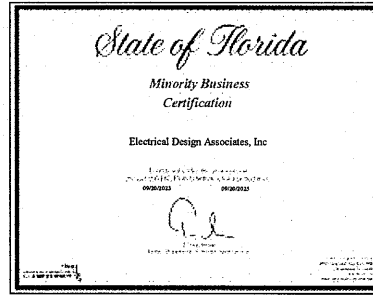
LICENSEE SEARCH OPTIONS

Data Contained in Search Results is Current As Of 07/26/2023 11:42 AM.

Search Results - 1 Records

Please see our glossary of terms for an explanation of the license status shown in these search results. For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Engineering Business Registry	ELECTRICAL DESIGN ASSOCIATES, INC	Primary	8079 Registry	Current



Electrical Design Associates Personnel Licenses

