



**Project No. 20-8532 Design and Construction Administration Services
for Backup Electrical Power Generators for Sewer Lift Stations; E-01,
E-03, E-06, W-14, W-15 & Stormwater Pump Station SW-08**

City of Hollywood, FL Department of Public Utilities



Baxter & Woodman, Inc.

6600 North Andrews Ave., Suite 100, Fort Lauderdale, FL 33309

Ph: 954-945-5483

Contact: Rebecca Travis, PE, ENV SP

Qualifications submitted:

May 28, 2020 by 2:00 PM

Baxter & Woodman respectfully requests the enclosed financial information is kept confidential

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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 . . .



BAXTER & WOODMAN
Consulting Engineers



TAB A: Letter of Transmittal

May 28, 2020

Mr. Vernal Sibble, PE
Project Manager
City of Hollywood, FL Department of Public Utilities
2600 Hollywood Blvd., Room 221
Hollywood, FL 33020

Subject: Project No. 20-8532 Request for Statement of Qualifications for Design and Construction Administration Services for Backup Electrical Power Generators for Sewer Lift Stations; E-01, E-03, E-06, W-14, W-15 & Stormwater Pump Station SW-08

Dear Mr. Sibble:

Baxter & Woodman, Inc. is pleased to submit our Letter of Interest and Statement of Qualifications Proposal to the City of Hollywood for the Design & Construction Administration Services for Backup Electrical Power Generators for Sewer Lift Stations E-01, E-03, E-06, W-14, W-15 and Stormwater Pump Station SW-08 (Project No. 20-8532). Baxter & Woodman has assembled a qualified team of professionals to provide the data collection, engineering design, permitting, bidding and construction management services to the City of Hollywood for emergency power at these six (6) pumping station sites.

Baxter & Woodman offers a unique approach to serving the City of Hollywood: we always protect your interests, provide high-quality engineering solutions, and save you money with our cost effective services and solutions. Our strategy is to work with the City as a valued partner to accomplish the City's goals and objectives for this project. Our approach is based on achieving success for the City by providing the following:

- **Responsiveness.** The nature of this, and any engineering design and construction project, is such that responsiveness is the key to maintaining an effective professional relationship. Many consultants claim to be responsive; however, we take great pride in ensuring that we are immediately accessible and responsive to our client's needs. This is demonstrated in the 25 General Consulting Contracts that we serve throughout South Florida.
- **Leadership.** A key component to effective project management is having one point of contact with the engineering firm who can respond to issues and needs pertaining to the Contract. This person will be knowledgeable of every project and provide an efficient means of communication between the City and the Engineering Firm. Our Project Manager, Rebecca Travis, PE, ENV SP, will direct work products for this Contract and will be the City's central point of contact. Ms. Travis is Executive Vice President for Baxter & Woodman and has over 34 years of engineering experience and believes in doing "whatever it takes" to achieve project success.

- **Competitive Rates.** Baxter & Woodman is a local South Florida, mid-size engineering business enterprise that provides engineering services at a cost-effective rate. We are also a full service design and construction administration firm, and provide civil, transportation, surveying, public outreach, structural, construction services, and value engineering services in-house.
- **Ease of Communication.** Our Ft. Lauderdale offices are located at 6600 N. Andrews Avenue, Suite 100. Our West Palm Beach office will also provide support services to this contract. Additionally, our principals are always available during and after working hours should emergencies arise. This ease of communication has promoted a team-oriented interaction with the City that produces results!
- **Committed Project Partners.** The City needs a consultant who will work as a partner with your staff – one who will be a proactive extension of your staff. Baxter & Woodman has a solid track record of partnering with municipalities to deliver the high level of personal service you desire. We are structured to allow for a long-term commitment of specific staff to serve your needs. Baxter & Woodman is committed to our civil/utility engineering practice in South Florida. Our highly experienced team will be accessible and responsive to your needs at all times.

Baxter & Woodman's primary goal is to provide the City of Hollywood with an experienced, cost effective and responsive team. In addition to our in-house staff, we have included the following specialty team members to assist in these specialty areas:

- **Gartek Engineering Corporation** – Electrical & Controls Engineering (specific to generator installations)
- **Ritzel-Mason, Inc.** – Subsurface Utility Investigation
- **Florida Engineering & Testing** – Geotechnical Engineering
- **Archaeological and Historical Conservancy, Inc.** – Cultural Resource Assessment Survey

Baxter & Woodman firmly understands the work to be completed in this Contract, and based on our experience and proven ability we will provide 110% commitment to complete this project within the required time and budget constraints.

We appreciate the opportunity to present our qualifications and look forward to a successful working relationship with the City. Please contact us if additional information is needed during the evaluation and selection process.

Sincerely,
BAXTER & WOODMAN, INC.



Rebecca Travis, PE, ENV SP
Executive Vice President/Florida Division Manager
6600 N. Andrews Avenue, Suite 100, Fort Lauderdale, FL 33309
Phone: 561-655-6175



BAXTER & WOODMAN
Consulting Engineers



TAB B: Submittal Questionnaire (Attachment A)

SUBMITTAL QUESTIONNAIRE (ATTACHMENT A)

THIS SHEET MUST BE SIGNED

RESPONDENT CHECK LIST

I M P O R T A N T: Please read carefully, sign in the spaces indicated and return with your Submittal.

Respondent should check off each of the following items as the necessary action is completed:

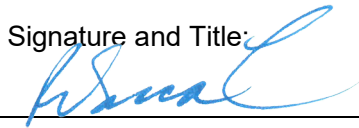
1. The Submittal has been signed.
2. Any required descriptive literature, etc. have been included.
3. Any information required is included.
4. Any addenda have been signed and included.
5. The mailing envelope has been addressed to:
Office of the City Clerk
City of Hollywood
P.O. Box 229045.
Hollywood, FL 33022-9045
6. The mailing envelope must be sealed and marked with Submittal Number, Submittal Title and Due date.
7. The Submittal will be mailed or delivered in time to be received no later than the specified due date and time. Otherwise Submittal cannot be considered.)
8. Submittal includes:
 - a) Statement of current and projected workload
 - b) List of sub-consultants
 - c) Auditor's letter
 - d) Organizational chart
 - e) Litigation
 - f) Project schedule

ALL COURIER-DELIVERED STATEMENTS OF QUALIFICATIONS MUST HAVE THE RFQ NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET

Company Name:

Baxter & Woodman, Inc.

Signature and Title:



Executive Vice President/
Florida Division Manager

Date:

May 15, 2020

PROJECT SUBMITTAL

FROM: Baxter & Woodman, Inc.
6600 North Andrews Ave., Suite 100
Fort Lauderdale, FL 33309

DATE: May 28, 2020

CITY OF HOLLYWOOD
Department of Public Utilities
c/o City Clerk
2600 Hollywood Blvd.
Hollywood, FL 33022-9045

RE: RFQ NO. 20-8532

To Whom It May Concern:

The undersigned, as Respondent, hereby declares that we have examined the Scope of Services and informed ourselves fully in regard to all conditions pertaining to the work to be done for the City of Hollywood's Consulting Services Contract – Wastewater Master Plan Update. The Respondent further declares that the only persons, company or parties interested in this Submittal or the Contract to be entered into as principals are named herein; that this Submittal is made without connection with any other person, company or companies making a Submittal; and it is in all respects fair and in good faith, without collusion or fraud.

The service to be furnished by us is hereby declared and guaranteed to be in conformance with the specifications of the City.

The undersigned agrees that should this Submittal be accepted, to execute the contract and present the same to the City for approval within twenty (20) days after being notified of the awarding of the contract.

The undersigned further agrees that failure to execute and deliver said forms of contract within twenty (20) days, will result in damages to the City.

IN WITNESS WHEREOF, I have hereunto subscribed my name on this
15th day of May, 2020, in the County of
Broward, in the state of Florida.

Baxter & Woodman, Inc.
Respondent's Firm or Trade Name

Corporation, Sole Proprietorship, Partnership (Circle One)

Phone No.: 954-945-5483

Address 6600 North Andrews Ave., Suite 100

City and State Zip Fort Lauderdale, FL 33309

BY: Rebecca Travis, PE, ENV SP
Typed and Written Signature

Executive Vice President/Florida Division Manager
Title



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

1621 N. 14th Avenue
Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 1

Date: **May 6, 2020**

**FOR: REQUEST FOR STATEMENTS OF QUALIFICATIONS (RFQ)
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03,
E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08**

FILE NUMBER: **20-8532**

ALL RESPONDENTS BE ADVISED OF THE FOLLOWING CHANGES TO THE ABOVE
REFERENCED PROJECT AS LISTED BELOW:

This addendum is issued as part of the RFQ package for the above described project. The changes incorporated in this addendum shall be considered as a part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents dated April 2020. The respondent shall coordinate all modifications herein with all trades and disciplines related to the RFQ package. **The respondent shall acknowledge receipt of this addendum per Item No. 4 of the "Respondent Check List" included in this addendum.** Failure to do so may subject Respondent to disqualification.

Item 1: NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS

The signed date for the *NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS* form has been revised. The revised form is attached.

ALL OTHER TERMS AND CONDITIONS IN THE RFQ PACKAGE SHALL REMAIN THE SAME.

A handwritten signature in blue ink, reading "Clece Aurelius".

Clece Aurelius, P.E.
Interim Assistant Director
Department of Public Utilities
City of Hollywood

NOTICE OF REQUEST FOR STATEMENTS OF QUALIFICATIONS

DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03, E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08

NOTICE IS HEREBY GIVEN that the City Commission of the City of Hollywood, Florida is advertising for statements of qualifications for the above-named professional services in accordance with Section 287.055, F.S. ("Consultant's Competitive Negotiation Act". The statements of qualifications will be received by the City Clerk of the City of Hollywood, Florida, on or before (but not later than) 2:00 PM Local Time on Thursday, May 28, 2020. The office of the City Clerk is located at City Hall, 2600 Hollywood Boulevard, Room 221, Hollywood, Florida, 33020. On May 28, 2020 at 2:30 PM, the names of the companies submitting statements of qualifications will be read publicly at the Southern Regional Wastewater Treatment Plant, 1621 N. 14th Avenue, ECSD 1st floor Conference Room, Hollywood, Florida, 33020.

Questions shall be submitted in writing via email by no later than Monday, May 18, 2020; Attention: Vernal Sibble, P.E. (vsibble@hollywoodfl.org). The telephone number for general information is (954) 921-3930.

It will be the sole responsibility of the Respondent to deliver personally, or by mail, his/her submittal on the completed Submittal Form to the Office of the City Clerk, at City Hall on or before the closing hour and date for the receipt of Documents as noted above. If a submittal is sent by mail, the Respondent shall be responsible for its delivery to the City Clerk's Office before the closing hour and date shown above for the receipt of the statements of qualifications. If the mail is delayed beyond the hour and date set forth above for the receipt of the statements of qualifications, the delayed submittal will not be considered and will be returned unopened.

A Cone of Silence is in effect with respect to this Request for Qualifications. The Cone of Silence prohibits certain communications between potential Respondents and/or Vendors and the City. For further information, please refer to Section 30.15(F) of the City of Hollywood Code of Ordinances.

The City of Hollywood is strongly committed to ensuring the participation of local Hollywood vendors in the procurement of goods and services. For additional information about the City's Local Preference Ordinance, visit www.hollywoodfl.org.

The City Commission reserves the right to reject any or all submittals, to waive informalities and to accept or reject all or any part of any submittal, as it may deem to be in the best interest of the City of Hollywood, Florida.

Dated this 29th day of April 2020.

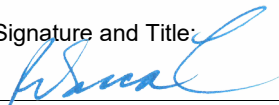


CLECE AURELUS, P.E.,
INTERIM ASSISTANT DIRECTOR
DEPARTMENT OF PUBLIC UTILITIES
CITY OF HOLLYWOOD

Company Name:

Baxter & Woodman, Inc.

Signature and Title:



Executive Vice President/
Florida Division Manager

Date:

May 28, 2020



CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION

1621 N. 14th Avenue
Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 2

Date: **May 20, 2020**

**FOR: REQUEST FOR STATEMENTS OF QUALIFICATIONS (RFQ)
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS E-01, E-03,
E-06, W-14, W-15 & STORMWATER PUMP STATION SW-08**

FILE NUMBER: **20-8532**

ALL RESPONDENTS BE ADVISED OF THE FOLLOWING CHANGES TO THE ABOVE REFERENCED PROJECT AS LISTED BELOW:

This addendum is issued as part of the RFQ package for the above described project. The changes incorporated in this addendum shall be considered as a part of the documents and shall supersede, amend, add to, clarify, or subtract from those conditions shown in the original documents dated April 2020. The respondent shall coordinate all modifications herein with all trades and disciplines related to the RFQ package. **The respondent shall acknowledge receipt of this addendum per Item No. 4 of the "Respondent Check List" included the RFQ.** Failure to do so may subject Respondent to disqualification.

Item 1: NOTES RELATED TO RELEVANT REQUEST RECEIVED FROM POTENTIAL RESPONDENTS

1. I'm seeking information regarding the project in the subject line, have you selected an architect or engineer? Also seeking scope details, value, and bidding construction timeline information.

Response: *The purpose of the RFQ is to seek a qualified engineers. As stated in the RFQ, two (2) qualified candidates will be selected. Scope details will be provided to those candidates.*

2. Will there be a pre-submittal walk through of the site for the referenced RFP?

Response: *No.*



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION**

1621 N. 14th Avenue
Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 2

3. May some of our reference/example projects included in our submittal be those completed by our major subconsultant?

Response: Yes

4. Do you anticipate extending the bid due date?

Response: No

5. What additional details are you willing to provide, if any, beyond what is stated in bid documents concerning how you will identify the winning bid?

Response: Sufficient details have been provided in the RFQ. As stated in the RFQ, the qualifications of the bidders will be reviewed and two (2) candidates will be selected.

6. Other than your own website, where was this bid posted?

Response: Demandstar.com

7. Was this bid posted to the nationwide free bid notification website at www.mygovwatch.com?

Response: No.

Item 2: DELIVERY OF RFQ PACKAGE

1. To assist in mitigating the 2019 Novel Coronavirus (COVID-19) potential exposure and transmission risks, City Clerk is not accepting personal delivery at this time. All RFQ packages need to be mailed to City Clerk of the City of Hollywood, or delivered to Records and Archives located in the Annex building on the west side of City Hall, 2600 Hollywood Boulevard, Hollywood, Florida, 33020. It is recommended that a delivery confirmation email be sent to the Project Manager, Vernal Sibble, P.E. (vsibble@hollywoodfl.org) after you drop off the packages but before 2 PM on the submittal date stated in the RFQ.



CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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Hollywood, FL 33019
Phone (954) 921-3930 Fax (954) 921-3591

ADDENDUM NUMBER 2

Item No. 3 CLARIFICATIONS

1. The Demandstar website "Bid Details" portal refers to the Bid Type as a "Request for Proposal" and the Bid ID is shown as "RFP-20-8532-1-2020/VS".

Response: *These are errors. In fact, the "Scope of Work" paragraph, on the portal, refers correctly to the intent of the subject request as a "Request for Statement of Qualifications". This is supported by the content of the request-it is one for qualifications. The City apologizes any inconvenience caused by this error.*

ALL OTHER TERMS AND CONDITIONS IN THE RFQ PACKAGE SHALL REMAIN THE SAME.

A handwritten signature in blue ink, appearing to read "Clece Aurelus", written over a horizontal line.

Clece Aurelus, P.E.
Interim Assistant Director
Department of Public Utilities
City of Hollywood

Company Name:

Baxter & Woodman, Inc.

Signature and Title:

A handwritten signature in blue ink, appearing to read "B. Woodman", written over a horizontal line.

Executive Vice President/
Florida Division Manager

Date:

May 28, 2020

Attachment A

**PROFESSIONAL ENGINEERING SERVICES
FOR
DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR BACKUP
ELECTRICAL POWER GENERATORS FOR SEWER LIFT STATIONS; E-01, E-03, E-
06, W-14, W-15 & STORMWATER PUMP STATION SW-08

SUBMITTAL QUESTIONNAIRE**

ENGINEERING SERVICES QUALIFICATION STATEMENT
AND SUBMITTAL QUESTIONNAIRE

PROJECT NAME: PROFESSIONAL ENGINEERING SERVICES
DESIGN AND CONSTRUCTION ADMINISTRATION
SERVICES FOR BACKUP ELECTRICAL POWER
GENERATORS FOR SEWER LIFT STATIONS; E-01, E-
03, E-06, W-14, W-15 & STORMWATER PUMP STATION
SW-08

PROJECT NO.: 20-8532

1. FIRM NAME & OFFICE LOCATION (Mailing Address and Street Address)

Name: Baxter & Woodman, Inc.

Mailing Address:

Street/PO

Box 6600 North Andrews Ave., Suite 100

City Fort Lauderdale State FL Zip 33309

Physical Address (if different from above):

Street _____

City _____ State _____ Zip _____

Phone (954) 945 - 5483 Ext _____ Fax (561) 655 - 6179

Primary E-Mail

Address: RTravis@baxterwoodman.com

Web Site

Address: https://www.baxterwoodman.com/

Contacts:

1. Name: Rebecca Travis, PE, ENV SP Title: Executive Vice President/Florida Division Manager
2. Name: Mark Dachsteiner, PE Title: Fort Lauderdale Regional Manager

2. TYPE OF ORGANIZATION

A. Check One:

☒ Corporation (complete Section B
and G)

☐ Sole Proprietorship (complete
Section D)

☐ Other (complete Section F and G)

☐ Partnership (complete Section C
and G)

☐ Joint Venture (complete Section E
and G)

B. If a Corporation, State incorporated:

Date of Incorporation: February 1, 1969

State in which Incorporated: Illinois

If an out-of-state corporation that is currently authorized to do business in the State of Florida, give the date of such authorization: May 2, 2016

Name and Titles of Principal Officers	Date Elected
John V. Ambrose, President/CEO	1987
Louis D. Haussmann, Executive Vice President/COO	1999
Deborah Finn, Executive Vice President/CMO	1997
Rebecca Travis, Executive Vice President	2004
Aaron Cutler, Executive Vice President	2008

C. If a Partnership, State formed:

Date of Partnership:

Type of Partnership (General or Limited):

Names and Addresses of Partners:

D. If Joint Venture, State formed:

Date of Joint Ventureship:

Names and Addresses of Joint Venturers:

E. If a Sole Proprietorship, State created:

Name and Address of Sole Proprietor:

F. If other than above, please describe:

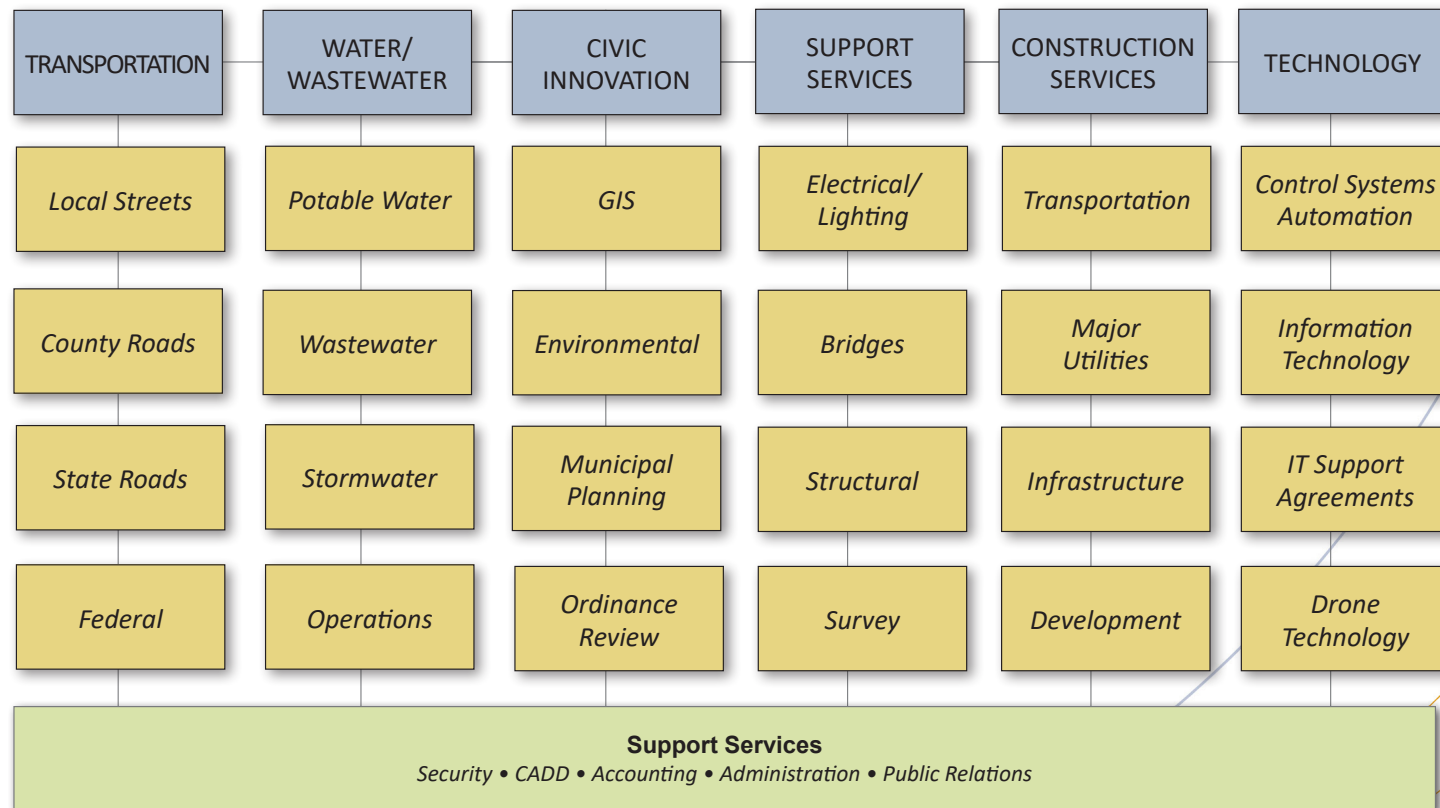
G. a. Related Parent Company, Divisions, and Subsidiaries:
(Attach additional information on other office locations, if appropriate)

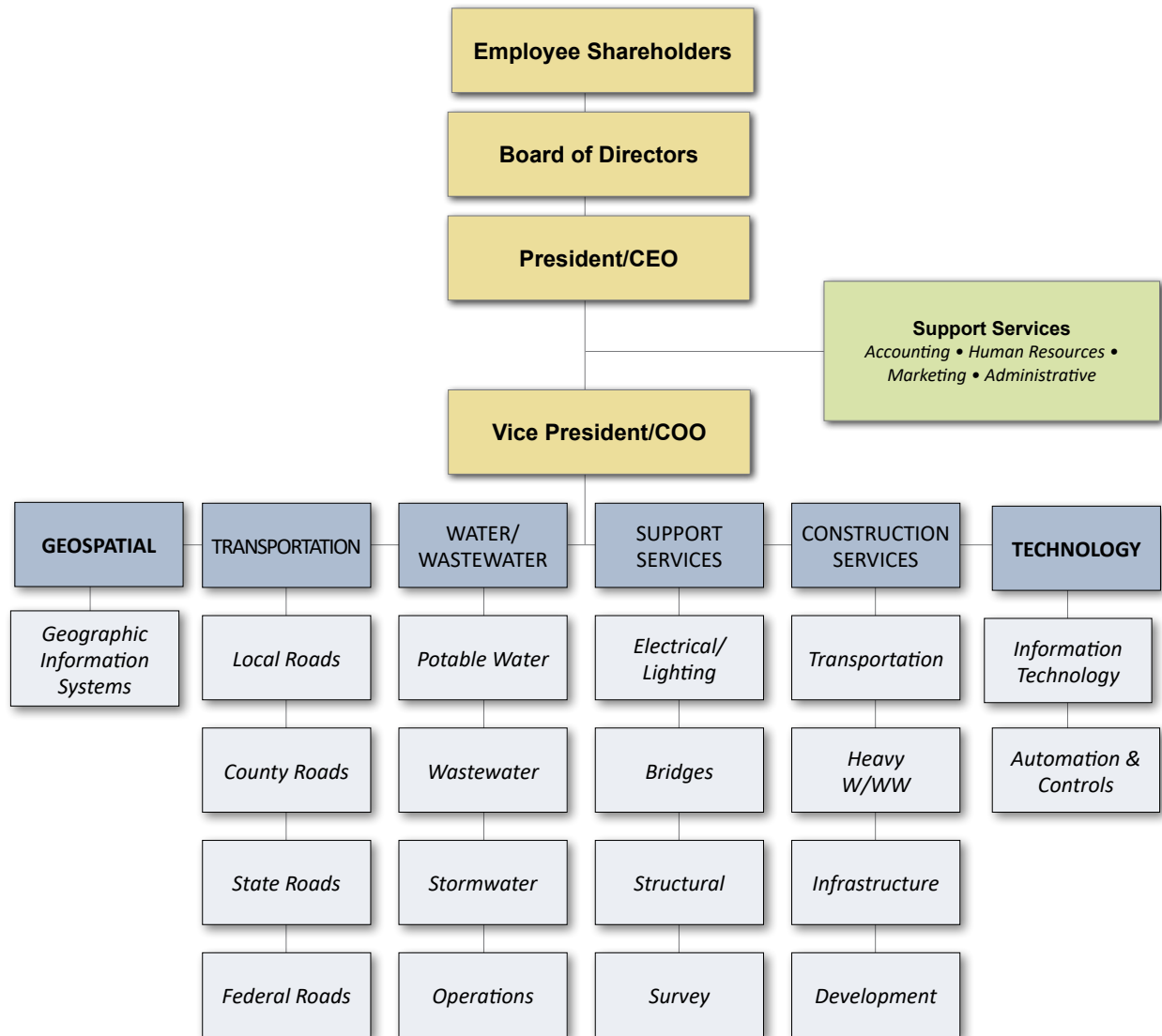
Corporate Headquarters: 8678 Ridgely Rd., Crystal Lake, IL 60012
Chicago Office: 8430 W. Bryn Mawr Ave., Suite 400, Chicago, IL 60631
DeKalb Office: 1790 Sycamore Rd., DeKalb, IL 60115
Mokena Office: 8840 West 192nd St., Mokena, IL 60448
Naperville Office: 1548 Bond St., Suite 103, Naperville, IL 60563
Peoria Office: 401 SW Water St., Suite 307, Peoria, IL 61602
Burlington Office: 256 South Pine St., Burlington, WI 53105
Madison Office: 2005 West Beltline Highway, Suite 201, Madison, WI 53713
Milwaukee Office: 115 South 84th St., Suite 220, Milwaukee, WI 53214
Fort Lauderdale Office: 6600 North Andrews Ave., Suite 100, Fort Lauderdale, FL 33309
Key West: 1111 12th Street, Suite 310E, Key West, FL 33040
Orlando: 98 S Semoran Blvd, Orlando, FL 32807
West Palm Beach Office: 477 S. Rosemary Ave., Suite 330, West Palm Beach, FL 33401

Please attach the following:

- b. Corporate Organization Chart
- c. Resumes of Principal Staff
- d. Corporate Family Tree
- e. Company Brochure/Annual Report

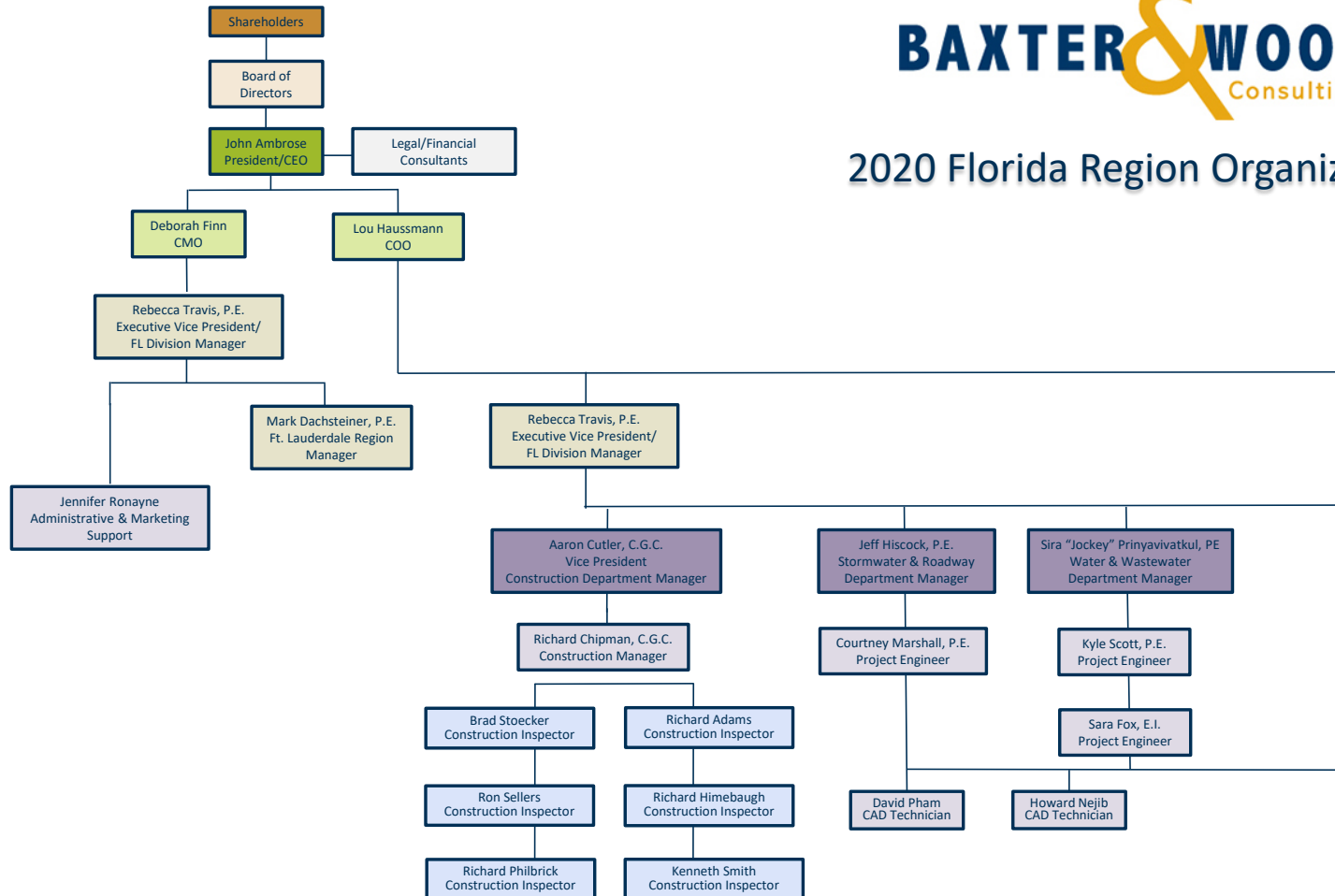
FIRM RESOURCES BY DEPARTMENT







2020 Florida Region Organizational Chart





John V. Ambrose, PE

President/CEO

Education

B.S., Civil Engineering
Marquette University, 1983

Joined Firm in 1984

Years of Experience: 39

Registrations

Licensed Professional Engineer:
Illinois

Associations

Illinois Road and Transportation
Builders Association

- IDOT District One Committee
- Lake County Co-op Committee
- Kane County Co-op Committee

American Council of Engineering
Companies

- IDOT Liaison Executive Committee
- Risk Management Committee Chairperson

DuPage Mayors & Managers
Transportation Technical
Committee

McHenry County Council of
Mayors – Methodology Review
Committee

McHenry County Council of
Government Transportation
Committee

Papers/Presentations

*Sustainability in Pavement
Rehabilitation*, Transportation
and Highway Engineering
Conference, 2012

John has over 38 years of municipal civil engineering experience with specific expertise in transportation planning, design, and construction services. His in-depth knowledge of State and Federal transportation funding opportunities, and his respected relationship and project experience with many County Division of Transportation officials will help to facilitate your projects.

As President and CEO for Baxter & Woodman, John ensures that the expectations of our clients are met and exceeded, and that projects are completed within budget and on schedule. He remains in close contact with the firms' clients to provide advice and guidance, and to ensure needed resources are available.

Representative Projects

La Grange, IL

Maple Avenue Relief Sewer

Principal in Charge for the design of a 60-inch relief sewer through the Village to improve stormwater drainage. The relief sewer is connected to MWRDGC's Deep Tunnel system, and the Village had already constructed approximately one mile of the relief sewer. The project included our review of an existing Village-wide drainage report, and the design of the next portion of the relief sewer located along Maple Avenue, starting at Bluff Avenue and terminating at La Grange Road (5th Avenue).

The relief sewer is a 60-inch RCP pipe installed along the approximate center of the Maple Avenue pavement, with junction chambers installed at all intersections for connection of combined and storm sewers along the side streets. The junction chambers also included overflow weirs and restricted outlets to limit the amount of wet weather flow, flowing to downstream combined (converted to sanitary) sewers. New storm sewers, inlets, catch basins, and manholes were installed as part of the Maple Avenue street reconstruction, and are now connected to the new relief sewer.

Carpentersville, IL

Principal in Charge for Maple Avenue Improvements, Phases II/III.

Principal in Charge for Huntley Road STP Application.

Project Advisor for Transportation Capital Improvement Plan.

Principal in Charge for 2014 Capital Improvement Plan Update.

Project Advisor for Oak Ridge and Hawthorne Sidewalk Installation.

Principal in Charge for Elmridge Avenue Reconstruction.

Cary, IL

Principal in Charge for East Main Street ARRA Improvements.

Project Manager for the Three Oaks Road ISTEA-STP Improvements between Silver Lakes Road and First Street.

Project Manager for the West Main Street ISTEA-STP Improvements between US 14 and Cary-Algonquin Road.

Grayslake, IL

Principal in Charge for Atkinson Road STP Improvements - Brae Loch to Washington.

Project Manager for Lake Street Improvements South of IL 120.

www.baxterwoodman.com

Project Manager for Lake Street STP Improvements (Center Street to Washington).
Project Manager for Lake Street Jurisdictional Transfer Project (Washington to IL 83).
Project Manager for Downtown Improvements - Scenario 1.
Project Manager for Library Lane and Center Street Improvements.
Project Manager for the Atkinson Road Extension - Phase I Engineering.
Principal in Charge for Atkinson Road Extension - Phase II Design.
Principal in Charge for IL 120 and Alleghany Road Intersection Improvements.

Lombard, IL

Project Advisor for St. Charles Street LAPP Improvements Design.
Project Advisor for Main Street LAPP Improvements Design.
Project Advisor for Special Assessment 217B Resident Engineering.
Project Advisor for Special Assessment 217C Resident Engineering.
Project Advisor for Main Street Lighting Resident Engineering.
Project Advisor for IL 53 Water Main and Sewer Replacement Design.
Project Advisor for IL 53 Stormwater Pumping Station Design.
Project Advisor for Craig Place and Willow Street Storm Sewer Design.
Project Advisor for Westmore – Meyers and Roosevelt Sidewalk Design.
Project Advisor for Olde Towne East Phases 3 – 5 Resident Engineering.
Project Advisor for North Industrial Park UltraThin Whitetopping Resident Engineering.
Project Advisor for Various Lift Station Improvements Design.
Project Advisor for Parkside Avenue Survey.
Project Advisor for Finley Road Pavement Rehabilitation Phases 1 and 2.
Project Advisor for Terrace View Pond Wetland Monitoring and Maintenance.

Prospect Heights, IL

Principal in Charge for 2012 Road Repair Program.

Franklin Park, IL

Principal in Charge for Ruby Street Traffic Signal/Railroad Signal Interconnection.

Glenview, IL

Waukegan Road and Chestnut Avenue Intersection Improvements

Principal in Charge for Phase II design plans for the Waukegan Road and Chestnut Avenue intersection improvements. The design is based on the IDOT approved Project Development Report.

Improvements consisted of widening and resurfacing Waukegan Road and Chestnut Avenue to provide intersection channelization. Improved driveways, curb and gutter, and landscaping were included along the length of the project. Storm sewer, sanitary, and water system improvements were made as needed to facilitate this work. Existing lighting was salvaged and relocated as necessary.

In addition, adjacent parking lots and accesses were improved for the widening of the roadway. Easements and right-of-way were obtained with plats, appraisals, and negotiations were completed within the scope of work. Coordination with the Village, local businesses, and IDOT was ongoing throughout. Alternative strategies to minimize the impacts of right-of-way were developed and examined.



Louis D. Haussmann, PE, PTOE™, PTP™

Executive Vice President/Chief Operating Officer

Education

MS, Civil Engineering
University of Illinois at Urbana
Champaign, 1997

BS, Civil Engineering
University of Illinois at Urbana
Champaign, 1995

Joined Firm in 1996

Years of Experience: 24

Registrations

Licensed Professional Engineer:
Florida, Illinois, Indiana,
Michigan, Texas, Wisconsin

Certifications

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

Professional Transportation
Planner™, certified by the
Institute of Transportation
Engineers

Associations

McHenry County Planning and
Development; Community
Development Block Grant – Vice
Chairman

American Council of Engineering
Companies

American Public Works
Association

Illinois Road and Transportation
Builders Association

Institute of Transportation
Engineers

Lou is an experienced project manager and design engineer for roadway rehabilitation, traffic signal installation, bicycle path construction, and streetscape projects. He is also skilled in the preparation of Phase I Design Engineering Reports, traffic engineering and planning studies, and pavement management reports. Lou has designed and effectively managed many large projects in the area, including the reconstruction of Veterans Parkway for the Will County Division of Transportation, the widening of Peace Road for the City of DeKalb, and the rehabilitation of Franklin Avenue in the Village of Franklin Park.

Lou manages Municipal Engineering services for many area communities, including the Villages of Bull Valley, Fox River Grove, Oakwood Hills, Glenview, and the Cities of Crystal Lake and McHenry.

Lou was appointed to the firm's Board of Directors in 2009 and is the Corporation's Chief Operating Officer.

Representative Projects

Wood Dale, IL

City Engineering Services Management

Lou served as the City Engineering Services Manager in 2012 and 2013 to coordinate capital project engineering assignments. His typical duties included attending City staff meetings, assisting in developing project scopes and construction cost estimates for City capital improvement planning; preparation of project budgets; project management; respond to resident inquiries; review permit applications; identify and pursue grant opportunities; attend City Council and Committee-of-the-Whole meetings; provide development-related review, planning, and construction-related services; and complete design studies and reports. Lou also coordinated and managed the preparation of design documents and construction related services provided by other consulting firms.

Woodstock, IL

Principal in Charge, responsible for oversight of municipal engineering service delivery for capital improvement projects.

Bull Valley, IL

Principal in Charge, responsible for oversight of municipal engineering service delivery for capital improvement projects

Glenview, IL

East of Harms Stormwater Management Project

Principal in Charge for the design, permitting, construction oversight, and start-up of one of the Village's largest infrastructure projects. This project provided two new storm water pump stations designed for flood control within the Village. The new relief sewers were located in a busy residential/commercial area, requiring significant sewer alignment effort as well as utility and permitting coordination (MWRD, Cook County Highway Department, Cook County Forest Preserve, and IDOT). Significant roadway reconstruction was undertaken and additional improvements to the park included rubber safety surfacing, improving ADA-accessibility. Additionally, the project allowed the Village to improve safety

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Papers/Presentations

“Local Roads Management”,
McHenry County Council of
Governments – Mayors’ Caucus,
September 8, 2016

“Neural Network Algorithms for
the Correction of Concrete Slab
Stresses from Elastic Layered
Programs”, Transportation
Research Record No. 1568,
Transportation Research Board

crossings for pedestrians and cyclists traveling along the adjacent Cook County North Branch Bike Trail.

LaGrange, IL

Maple Avenue Relief Sewer (MARS) Project

Principal in Charge for the Phase II design of a 60-inch Maple Avenue Relief Sewer extension through the Village to improve stormwater drainage. The relief sewer is connected to MWRDGC’s Deep Tunnel system, and the Village has already completed approximately one mile of the relief sewer. The project included our review of an existing Village-wide drainage report and the design of the next portion of the relief sewer located along Maple Avenue, starting at Bluff Avenue and terminating at La Grange Road (5th Avenue). The proposed relief sewer was a 60-inch RCP pipe installed along the approximate center of the Maple Avenue pavement with junction chambers installed at all intersections for connection of combined and storm sewers along the side streets. The junction chambers also include overflow weirs and restricted outlets to limit the amount of wet weather flow flowing to downstream combined (to be converted to sanitary) sewers. New storm sewers, inlets, catch basins, and manholes were installed as part of the Maple Avenue street reconstruction, and were be connected to the new relief sewer. Soil borings indicated the depth of bedrock along Maple Avenue ranges from 4- to 15- feet below the street surface. Because of the residential properties located on both sides of Maple Avenue, the Village charged Baxter & Woodman with the task of investigating alternatives for rock excavation to minimize impacts to the adjacent properties. Approximately 3,500 to 5,000 cubic yards of rock, depending on the limits of the project, were removed during construction to install the relief sewer. The project also included the replacement of water main and water service lines, replacement of combined sewer pipe with new sanitary sewer pipe, and restoration consisted of complete road reconstruction. This project was completed in 2013.

Delray Beach, FL

Swinton Commons Traffic Study

Conducted a traffic study review and prepared comments regarding the Traffic Impact Study prepared for the Swinton Commons for Atlantic Avenue Development, LLC. The study was dated December, 2015 and was prepared by Kimley-Horn and Associates, Inc.

Funding Assistance

Lou has assisted the following communities with obtaining grants and other funding totaling more than \$33 million from various funding sources for transportation projects:

Village of Beecher
City of DeKalb
Village of Frankfort
Village of La Grange
City of Oak Forest
Village of Oswego
Village of Plainfield
Village of Robbins
Village of Shorewood

City of Country Club Hills
Village of Elwood
Village of Franklin Park
Village of New Lenox
Village of Olympia Fields
Village of Park Forest
Village of Richton Park
Village of Round Lake
Village of Villa Park

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Deborah Finn, CPSM

Executive Vice President/Chief Marketing Officer

Joined Firm in 1994

Years of Experience: 37

Continuing Education

American Consulting Engineers
Council Business of Design
Consulting, 2013

ZweigWhite & Associates -
Revolutionary Marketing
Seminar

Certifications

Certified Professional Services
Marketer - 2006
Society of Marketing
Professional Services

Associations

American Consulting Engineers
Council – Business Development
Committee

Society of Marketing
Professional Services

Women's Transportation
Seminar (WTS)

Papers/Presentations

Construction Survival Guide
McHenry County Division of
Transportation

Delivering Your Message
13th Annual Transportation
Symposium & Business
Exchange 2009

"Building a Community"
Illinois Municipal Review

Deborah is a Principal and Vice President of Marketing at Baxter & Woodman, Inc. She has more than 30 years of experience in professional service marketing and manages the marketing efforts, including research, budget planning, business development, proposal generation, promotional activities, corporate communications, and development of the firm's annual Marketing Program. Deborah established the firm's marketing business practices and developed a department of professionals who support 230+ employees working from 13 regional offices.

Deborah has conducted integrated public information campaigns for roadway construction, and high profile projects in order to increase awareness and public understanding and promote communication during the construction activities. Deborah developed and implemented public information strategies that include information meetings, a variety of print materials (pamphlets, door hangers, magnets, signage, etc.), press releases, websites, Twitter feeds, Facebook pages, and customized presentations for business groups. She coauthored a Construction Survival Guide, which was developed to help area business owners overcome the typical obstacles that accompany adjacent road improvements.

Deborah earned the designation of Certified Professional Services Marketer in 2006 from the Society of Marketing Professional Services. She also received the National Charlotte Danstrom Women of Achievement Award (Corporate Category) in 2005 from the McHenry County Chapter of Women in Management.

Representative Projects

Lake County Division of Transportation, IL

Wadsworth Road at Green Bay Road Reconstruction – Communication Lead

Public Relations Specialist during Phase III construction. Provided support for construction open house, and development and maintenance of the project website. Provides regular construction updates through the project website and the developed email base to residents, business owners, local officials, Lake County Passage Live Traffic System, School Districts, and the project team. (www.wadsworth131.com)

Wood Dale, IL

Royal Oaks Construction – Public Involvement Plan/Communication Lead

Public Relations Specialist during Phase III construction. Provides support for the resident construction meeting, and development and maintenance of the project website. Working closely with the Resident Engineer, Deborah provided weekly updates to the project website and the email list of interested parties (business owners, local officials, residents, and the project team).

Round Lake, IL

Hart Road Improvements

Public Relations Specialist during Phase III construction. Provided support for construction open house, and development and maintenance of the project website. Provides regular construction updates through the project website and email list.

www.baxterwoodman.com

McHenry County Division of Transportation, IL

Randall Road Construction – Communication Lead

Public Relations Specialist for construction of improvements for Randall Road. This heavily traveled economic corridor will be widened to provide three through lanes in each direction with up to four for the portion between Bunker Hill/Huntington Drive just up to Polaris Drive/Acorn Lane. Dual left turn lanes and separate right turn lanes were provided at all signalized intersections. Various communication techniques were utilized on the project, from business canvassing to the development of a project-specific website.

McHenry County Division of Transportation, IL

Walkup Road Phase III Improvements – Communication Lead

Public Relations Specialist for construction of improvements for Walkup Road at Illinois Route 176. Various communication techniques were utilized on the project, from neighborhood canvassing to the development of a project-specific website. The project was funded through a combination of Congestion Mitigation Air Quality funds, other local County funding sources, and the City of Crystal Lake.

McHenry County Division of Transportation, IL

McHenry County Long Range Transportation Plan Outreach Program

Public Relations Specialist to assist with public outreach efforts. Participated in a series of “pop-up” meetings that were held across the County to build awareness among the County’s residents about the project and to obtain input on how residents would like to see transportation improved in the County. Coordinated outreach meetings with business groups, elected officials, and the general public during a two-year effort.

Wheaton Sanitary District, IL

North Side Interceptor Design and Construction

Public Relations lead for this estimated \$40 million Interceptor sewer. The project consisted of preparing a route study, and providing preliminary and final design of the proposed North Side Interceptor. Services also included coordination with 16 different permitting agencies, easement negotiations with 40 different property owners. A multi-year public information campaign, including a project website, was developed.

Winnetka, IL

Stormwater Master Plan

Assisted in the development of the Stormwater Master Plan website (winnetkastormwaterplan.com). Provides website updates and maintenance.

McHenry County Division of Transportation, IL

Route 31 Bypass Study

Baxter & Woodman teamed with MACTEC Engineering for this feasibility study. Provided support for the public involvement portion of the study through a project specific website, public information meetings, writing press releases, preparing informational handouts for the meetings, and various mailings to project stakeholders and the public. Website Manager who developed a temporary project website, which included a forum for the public to post their comments. Responsible for monitoring site, responding to public comments, and posting project updates.

www.baxterwoodman.com



Rebecca Travis, PE, ENV SP

Project Director – Executive Vice President, Florida Division Manager

Education

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

Years of Experience: 36

Joined Firm in 2003

Registrations

Licensed Professional Engineer, Florida

LEED Green Associate

Envision Sustainability Professional Credential

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

Associations

National Association of Women in Construction: Chapter Treasurer, 1994 & 2003; Chapter Board member 1994 thru 2006, 2011 to present

Society of Women Engineers: Chapter President, 1995

Water Environment Federation

American Water Works Association

American Public Works Association

Florida Stormwater Association

Certifications

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

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.

Representative Projects

**Palm Beach County Water Utilities Department (WUD), FL
Western Region Operations Center Facility Design**

Project Manager providing comprehensive site planning, design, permitting, and construction administration and inspection services for the new Western Region Operations Center (WROC) in Belle Glade, FL. Engineering and architectural design, permitting, bidding, and construction services for the buildings and overall site improvements were provided and the project has been constructed. The design and construction followed the Florida Green Building Coalition Commercial Building Standard in an effort to address sustainability in design.

Delray Beach, FL

Osceola Park and SW 4th Street Neighborhood Projects

Senior Project Engineer for the infrastructure improvements and provided support for public outreach efforts for the two large local neighborhood projects that incorporate over 1,300 parcels. Also supported the City's installation of multiple traffic calming "pilot" projects to measure results, seek resident input, and develop a local toolbox for future implementation.

Palm Beach County, FL

East Central Regional Water Reclamation Facility

Project Manager for the site planning, design, permitting, and bidding document preparation for a reclaimed water storage and transmission pump station. The 3,750 sq. ft. building includes office and warehouse space.

West Palm Beach, FL

Hydraulic Study for Lift Station Improvements

Project Manager to develop wastewater hydraulic model and master plan for WPB Northern Region Service Area served by L.S. #21, #23, and #26.

**Palm Beach County Water Utilities Department (WUD), FL
WTP 8 SW/Permitting; Rezoning of PBCWUD Facilities**

Project Manager for providing engineering services for stormwater design and various permits for WTP modifications. Project Manager for providing administrative planning and engineering assistance to WUD to rezone WTP #3, WTP #9, and the Southern Region Water Reclamation Facility to the PO zoning category, and for site plan amendment services for WTP #8.

West Palm Beach, FL

Water Repump Facility - Phase II

Project Manager to provide engineering design for new water repump facility.

www.baxterwoodman.com

City of Delray Beach, FL

Water Meter AMI System

Project Manager for the automatic water meter reading system evaluation, development of a water meter strategic plan to provide guidance in the replacement of over 20,000 existing water meters, and in the installation of new meter reading technology.

West Palm Beach, FL

Westward Pump Station - Phase I

Project Manager for the easement acquisition and civil design services for the grading, paving, and yard piping for the City's water booster and re-pump station. The project improved system pressure in the northwest portions of the City's potable water service area. Rebecca has been involved in the coordination with the roadway design engineer in order to address impacts of the roadway realignment on existing City utility mains, and the site work for the booster pump station. Also provided bidding and construction administration assistance.

Boca Raton, FL

Woodfield Reclaimed Water Pipeline Planning Document

Project Manager for preparing a planning document that identified pipe routing options, easement issues, and detailed corridor analysis for new reclaimed water pipeline to serve Woodfield Golf Course.

Delray Beach, FL

Congress Avenue Corridor Utilities Master Plan

Project Manager for development of sub-area master plan for water, wastewater, and reclaimed water improvements needed to serve Congress Avenue redevelopment area.

Lake Worth, FL

\$40 Million Neighborhood Road Program

Project Manager for the design, permitting, and construction administration services for various utility and roadway mill and overlay or reconstruction projects as identified and prioritized for the northwestern quadrant of the City. The scope of work for this four-year neighborhood roadway improvement program included water and sewer replacement, sidewalk and ADA compliance, signing, marking, traffic calming, and public involvement during design and construction.

West Palm Beach, FL

Water Main and Force Main Aerial Crossings

Project Manager for the preparation of design plans for replacement of existing water main and force main aerial crossings throughout the City. Project included inspection of the aerial crossing upon construction completion.

Boca Raton, FL

Reclaimed Water Main Extension

Project Engineer for the design of new reclaimed water main to serve the City's western service area. Project included 12,800 LF of 20-inch reclaimed water main and three metering stations with flow control valve, telemetry, and controls.



Aaron I. Cutler, CGC

Vice President/Construction Department Manager

Education

AAS Civil Engineering Technology,
Pensacola Junior College

Years of Experience: 21

Joined Firm in 2008

Certifications

State of Florida Certified General
Contractor

Red Vector FDOT Asphalt Paving
Level One and Level Two
Certification

Florida Department of
Environmental Protection
Stormwater Erosion and
Sedimentation Control - Certified
Stormwater Management Inspector
(Inspector No. 21817)

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

Florida Dept of Transportation
Advanced MOT CTQP Course
through Florida International
University

Aaron has 20 years of experience in several phases of municipal construction including, complete infrastructure improvements, wastewater treatment plants, utility pipeline projects, stormwater drainage systems, NPDES compliance, roadway construction, reclaimed pump stations, lift stations, elevated water storage tanks, and vertical construction.

As Construction Manager, his daily duties include, managing a staff of construction 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 RFIs and clarifications, processing final project certifications, and verifying contractor's conformance.

Representative Projects

Boca Raton, FL

Boca Raton Reclaimed Water Main Extension

Construction Inspector for over 10,000 LF of new 20-inch reclaimed water main. Services included shop drawing review, record drawing review, and coordination with Client, Engineer of Record, and Contractor.

Boca Raton, FL

Broken Sound Reclaimed Water Main

Construction Inspector for over 5,000 LF of new 20-inch reclaimed water main. Services included shop drawing review, record drawing review, coordination with Client, Engineer of Record, and Contractor.

Boca Raton, FL

Esterly Wastewater Infrastructure Improvements

Construction Manager for construction of a new sanitary sewer system to serve the Esterly Area, which included new gravity sewer for 37 residences and two commercial properties. The project included one lift station, potable water improvements, new water services and meter boxes, new fire hydrants, and roadway reconstruction within project area.

Boynton Beach, FL

Central Seacrest Infrastructure Improvements Phase I

Construction Manager for Phase I improvements, consisting of water main replacement, new reclaimed water main, gravity sewer replacement, stormwater system upgrades, pavement overlay, and construction of new landscaping, sidewalks, and driveway aprons.

Boynton Beach, FL

Phase I Reclaimed Water System

Construction Manager for over two miles of reclaimed water pipeline ranging in size from 6-inch to 24-inch. Services include progress meetings, shop drawing review, periodic site visits, coordination with on-site Construction Inspector, Engineer of Record, and Client, review of Contractor's monthly payment request, review of record drawings, and Substantial and Final Completion verification.

Gulf Breeze, FL

www.baxterwoodman.com

Gulf Breeze Miscellaneous Water Line Upgrades

Construction Inspector for water main upgrades located throughout Gulf Breeze.

Gulf Breeze, FL

Gulf Breeze Sanitary Sewer Improvement

Construction Inspector for new 8-inch gravity sanitary sewer, force main, lift stations, and roadway upgrades.

Highland Beach, FL

Highland Beach A1A Water Main Replacement Construction Management Services

Construction Management and Administration for the installation of three miles of 10-inch water main. Project components included coordinating with the Contractor, Town, Residents, and Regulatory Agencies, as well as full construction administration.

Lauderdale-by-the Sea, FL

CIPP Lining Inspection Services

Construction Manager for CIPP Lining Monitoring and Inspections for approximately 15,619 linear feet of gravity sanitary sewers.

Loxahatchee River Environmental Control District, FL

IQ Pump Station

Construction Inspection and Management for a new "IQ" irrigation quality reclaimed water master pump station to serve the District's entire reclaimed water serve area. Project included new 22.4 MGD submersible pump station with three 335 Hp and one 160 Hp pump; new electrical building to house VDS, MCCs and control panel; and associated mechanical, electrical, and instrumentation/control improvements. Services included progress meetings, shop drawing review, coordination with Engineer of Record, and inspections as needed.

Loxahatchee River Environmental Control District, FL

Jupiter Highlands Neighborhood Sewering Project

Construction Management and Inspection of a new low pressure sewer system (LPSS) for a residential community in Jupiter, Florida. The project included 6,355 LF of 2-inch and 3-inch force main, 136 sewer services, valves, and flushing connections. Services included administering progress meetings, shop drawing review, review of monthly payment requests, coordination with Engineer of Record and Client, record drawing review, and Substantial Completion verification and certification to the permitting agencies.

Navarre, FL

Navarre East Low Pressure Sewer System

Construction Inspector for the installation of a low pressure sewer system within a residential neighborhood. Project included associated force main piping, valves, grinder pumps, and roadway reconstruction.

Pensacola, FL

Airport/Brent Interchange Utility Relocation

Construction Inspector for relocation of several miles of water main and sewer pipeline. Project included new service lines and laterals to existing homes and businesses, and roadway repair.

FIRM HISTORY

Baxter & Woodman's history traces its roots back to 1937, when Lorrin E. Woodman met Richard M. Baxter at Harvard University in Cambridge, Mass.

After stints in the Navy, the pair were stationed together in Guam, where they resolved to open their own engineering business when they returned.

Their company started Jan. 19, 1946, out of the basement of Woodman's mother-in-law. Together they founded the engineering firm of Baxter & Woodman, Consulting Engineers in January 1946 in Crystal Lake, Illinois.



Years later, much has changed – What started as a two-person operation almost 75 years ago, has transformed into a regionally recognized, thriving multi-discipline engineering firm with over 240 team members!

Through it all, Baxter & Woodman staff remains committed to the core value of our founders:

“Provide government agencies with outstanding engineering services.”

Today, Baxter & Woodman, Inc. still practices this time-honored philosophy adopted by Richard Baxter & Lorrin Woodman decades ago!



www.baxterwoodman.com

FIRM HISTORY

1946

Baxter & Woodman is founded in Illinois as a water/wastewater firm.

1989

Acquires Robers & Boyd and expands its Midwest presence into the state of Wisconsin

2016

Acquires Mathews Consulting and expands into the southeast region – Florida.



In 2016, Baxter & Woodman merged with the Florida-based engineering firm Mathews Consulting, Inc., a civil engineering consulting firm that specializes in municipal work for clients throughout South Florida.

The merger expands the Midwest based firm's reach into the Florida region. The merger brings in-house professional planning, water and wastewater treatment, electrical, structural, GIS, information technology, transportation and surveying services into the company's Florida operations.

Baxter & Woodman's President and CEO, John V. Ambrose stated, "The two companies share similar corporate values and complement each other to make a stronger team. We have combined the planning, design, and construction expertise of both firms to continue to serve the needs of the growing Florida population."



www.baxterwoodman.com

AWARDS AND ACCOMPLISHMENTS

Baxter & Woodman has provided reliable and cost-effective solutions to our client's real-world challenges. Many of these solutions have been recognized for their high level of achievements, value, and ingenuity by our peer associations. We are honored to be recognized for our past engineering accomplishments.



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AWARDS AND ACCOMPLISHMENTS

Baxter & Woodman has provided reliable and cost-effective solutions to our client's real-world challenges. Many of these solutions have been recognized for their high level of achievements, value, and ingenuity by our peer associations. We are honored to be recognized for our past engineering accomplishments.



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AWARD WINNING PROJECTS

American Council of Engineering Companies - National

2015 Engineering Excellence Grand Award - *Gilberts Barium/Radium Removal Pretreatment System*

American Council of Engineering Companies of Wisconsin

2015 Engineering Excellence State Finalist Award - *Paddock Lake Wastewater Treatment Plant Improvements*

American Council of Engineering Companies of Illinois

2016 Engineering Excellence Merit Award - *Harms Road Regional Stormwater Improvements*

2015 Engineering Excellence Honor Award - *Gilberts Barium/Radium Removal Pretreatment System*

American Public Works Association - Chicago Metro Chapter

2016 Chapter Environmental Project of the Year - *West Park Front Pumping Station Replacement & Streambank Stabilization*

2016 Suburban Branch Transportation Project of the Year - *Dewes – Henley – Harlem Drainage & Roadway Improvements*

2015 Chapter Environmental Project of the Year - *Gilberts Barium/Radium Removal Pretreatment System*

2015 Southwest Branch Transportation Project of the Year - *Lockport Street Traffic Signal and Sidewalk Improvements*

2015 Lake Branch Transportation Project of the Year - *Hart Road & Sunset Drive Improvements*



Barium/Radium Removal Pretreatment System

Baxter & Woodman, Inc. developed an innovative Barium/Radium Removal Pretreatment System that was added to the Village's existing municipal ion exchange softener regeneration system, allowing compliance with new regulations in a cost-effective manner.



Lockport Street Traffic Signal and Sidewalk Improvements

This project included construction of a sidewalk along the south side of IL Route 126 and installation of permanent traffic signals, pedestrian signals, and sidewalk ramps. This project provides a continuous, safe pedestrian route between the developments west of the DuPage River and the Village's central business district.



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Baxter & Woodman provides engineering and consulting services to municipal, county, and state government agencies. Our team offers expert services that stretch well beyond typical engineering consulting. We are committed to **BUILDING COMMUNITY VALUE** with each and every project we complete.



Our approach...

FIND & FUND

We find funding to build your needed improvements.

CONNECT & COMMUNICATE

We build strong relationships and connect with your community.

SAFE & SECURE

We keep you safe and secure. Count on us for reliable and responsive service.

Our expertise...

WASTEWATER

Facilities Planning
Sanitary Sewer Evaluation & Rehabilitation
Conveyance & Treatment Operations
Pretreatment Programs
Reclaimed Water

TRANSPORTATION

Pavement Management Reports
Intersection Design Studies
Traffic Signal & Street Lighting Streetscape
Bicycle/Pedestrian Paths
MFT Programs
MAP-21 Study, Design & Construction
Bridge Engineering

WATER RESOURCES

Master Planning & Modeling
Drainage Studies
Detention & Retention Basin
Storm Sewer Systems
Erosion Control
Groundwater Monitoring & Studies
LUST Investigations
Phase I & II Site Investigation
Wetlands Delineation

GIS

Asset Management
Development/Training
Mapping
Data Collection/

TECHNOLOGY

SCADA/Controls
Municipal IT
Security

GENERAL MUNICIPAL

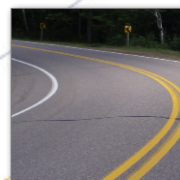
Grant & Loan Funding
Plan Reviews
Comprehensive Land Use Plans
Capital Improvement Plans
Park/Recreational Development
Land Surveying
Public Relations

WATER

Master Planning
Rate Studies
Supply, Treatment, & Distribution
Operations



Baxter & Woodman continues to be ranked on the Engineering News-Record's Top 500 Design Firms list. We are also recognized by Public Works Magazine as one of the Top 50 leading firms in public works consulting in the nation.



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WATER

The Baxter & Woodman water group is committed to protecting and preserving the water supply. Staffed by recognized experts in the field of water supply, treatment, and source protection, the water group specializes in long-term system planning, design, construction, and operation of water supply, treatment, storage, and distribution systems.

SUPPLY

Water System Modeling with GIS integration
Water System Master Planning
Groundwater Resources Management/
Investigations
Source Water Quality Management
Wellhead Protection
Test Well Drilling Programs
Deep and Shallow Aquifer Water Supply Wells
Lake Michigan Water Intakes
Pilot Studies
Energy Analysis

TREATMENT

Safe Drinking Water Act Compliance and Aesthetic
Improvements with:
Air Stripping and Aeration
Chemical Coagulation and Flocculation
Sedimentation and Filtration
Ion Exchange and Absorption
Hydrous Manganese Oxide
Biological Filters
Membrane Separation

Chemical Oxidation

Disinfection

Radium and Barium Residuals Management

DISTRIBUTION

Booster Stations
Transmission and Distribution Mains

TRENCHLESS TECHNOLOGIES

Water Main Lining
Directional Drilling
Pipe Bursting

RESERVOIRS AND ELEVATED STORAGE TANKS

SUPERVISORY CONTROL AND DATA

ACQUISITION
(SCADA) SYSTEMS

CORROSION CONTROL

SECURITY



BAXTER & WOODMAN
Consulting Engineers

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WASTEWATER

A recognized leader in the field of wastewater collection and treatment in the Midwest, our expertise focuses on nutrient removal, energy reduction and recovery, and saving money through innovative treatment methods and technologies. From aeration energy analyses to combined heat and power designs, to performance contracting and facility automation – our forward-thinking approaches have saved communities millions of kilowatt hours and hundreds of thousands of dollars.

Planning

Aeration Energy Monitoring/
Analysis
HVAC/Geothermal Energy
Analysis
Combined Heat & Power (CHP)
Analysis
User Rate Studies
Capacity, Management, Operation
& Maintenance (CMOM)
Programs
Facilities Management/Asset
Management Systems
Facilities Planning Reports
Flow Monitoring Programs & I/I
Analysis
Sewer System Evaluation Surveys
& Basement Back Up Reductions
Sewer System Master Plans
Water Quality Management Plans
Phosphorous Removal Planning

Design

Aeration Systems (Turbo
Blowers, Diffusers & DO Control
with Feed Forward Ammonia
Sensors)
Geothermal Heating/Cooling
with Effluent
Combined Heat and Power
Facilities
Performance Contracting
Biosolids Management
Wastewater Pumping Stations
Wastewater Treatment Facilities

Infrastructure

Sanitary Sewer Extensions
Sanitary Sewer Rehabilitation
Programs
Sewage Pump Stations & Force
Mains

Construction

Bid Openings
Full and Part Time Inspection
Final Inspection / Warranty
Operation and Maintenance
Manuals
Facility Start-up
Operator Training
Contract Operations
Troubleshooting
Gap Services

Pretreatment

Industrial Pretreatment
Programs
NPDES
Sampling/Compliance
Significant Industrial Users
(SIUs) Compliance Assistance



BAXTER & WOODMAN
Consulting Engineers

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WATER RESOURCES

Our water resources department is committed to helping clients effectively manage stormwater, obtain funding for improvements, and incorporate green infrastructure solutions. From developing comprehensive master drainage plans to designing and planning individual drainage projects, our solutions maximize flood control and enhance water quality...protecting water resources for future generations.

PLANNING

- Drainage Studies
- Hydrologic and Hydraulic Modeling
- Water Quality Modeling
- Comprehensive Stormwater Master Planning
- Stormwater Utilities
- Grant Writing and Funding Application Assistance

REGULATORY ASSISTANCE

- USACE, DNR, EPA Permitting
- NPDES/WPDES, TMDL, NFIP, and CRS Compliance
- Ordinance Development, Revision, and Enforcement
- Permit Application Review
- Floodplain Map Revision

DESIGN

- Detention and Infiltration Basins
- Storm Sewer Systems
- Wetland Delineation, Restoration, Enhancement, and Mitigation
- Streambank and Shoreline Stabilization
- Green Infrastructure and Best Management Practices
- Soil Erosion and Sediment Control



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TRANSPORTATION

Baxter & Woodman's transportation projects focus on environmental awareness, cost-effective solutions, and sensitivity to community issues. From shared use bike/pedestrian paths to roundabout designs to multiple-lane highway reconstruction projects, we help clients meet their individual project goals. We assume a proactive approach to each project and routinely prepare funding applications for state and federal monies. Our transportation projects are in compliance with state DOT regulations and compatible with various funding sources.

Our transportation project experience includes:

Planning

- Intersection Design Studies
- Pavement Management Reports
- Traffic Studies
- Capital Improvement Plans
- Loan/Grant Applications
- Wetland Mitigation
- Federal Phase I Studies
- Transportation/Corridor Plans

Construction Management

- Full and Part Time Inspection
- Surveying and Staking
- Contractor Pay Request Verification
- Social Media Project Management
- Federal Phase III Construction
- Public Relations Campaigns

Design

- Streetscape & Roadside Beautification
- Street Lighting
- Bicycle Paths & Sidewalk Installation
- Complete Street Reconstruction
- Program Management Services
- Highways/Freeways
- Intersection Capacity Improvements
- Public Involvement/Consensus Building
- Pavement Recycling
- Roadway Widening & Resurfacing
- Traffic Signal Installation/Roundabouts
- Sustainable Street & Parking Lot Design
- Bridges, Culverts & Retaining Walls
- Preparation of Right-of-Way Plats
- Storm Sewers and Drainage Design
- Traffic Control/Pavement Marking
- Federal Phase II Plan Preparation



www.baxterwoodman.com

SPATIAL TECHNOLOGY

Offering a wide range of Spatial Technology services – from master planning and data collection through custom application development and personalized training. We strive to make GIS a success for communities and utilities using a combination of proven techniques, innovation, and exceptional customer service. Our goal is to help municipalities and public agencies work smarter with spatial technology.

Web Based Services

- Esri ArcGIS Online Services
- Planning
- Installation
- Maintenance
- Application Design and Deployment
- Mobile & Desktop
- Geocortex (Web Mapping Applications)
- Hosting Services

Data Management

- Esri Enterprise Geodatabase Management
- Data Conversion from Other Sources (CAD, .CSV, Etc.)
- Data Cleanup and Implementation of Industry Standardization

Asset Management

- Cityworks Business Partners
- Installation
- Project Management
- Data Prep
- Cartegraph Business Partners

Drone (UAS)

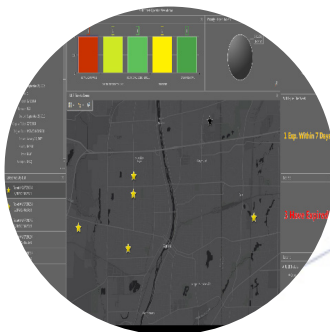
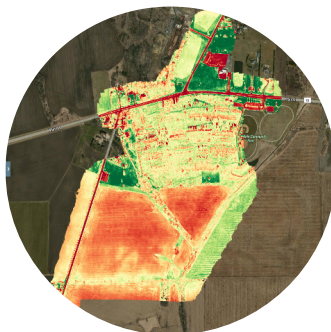
- Aerial Images (like Google Maps)
- Traffic Observation
- Bride Inspections
- Construction Progress
- Marketing Imagery/Video

3D

- Esri ArcGIS Pro
- Spatial Analyst
- 3D Analyst

Software Expertise

- ArcGIS™ for Desktop
- ArcGIS™ for Server
- ArcGIS™ Online
- Azteca Systems Cityworks
- Latitude Geographics Geocortex Essentials
- TerraSync/Pathfinder
- SQL
- ArcSDE™
- Google APIs



BAXTER & WOODMAN
Consulting Engineers

www.baxterwoodman.com

CONSTRUCTION

Experienced in all facets of construction observation and administration. Our construction team works tirelessly to ensure compliance with our clients' plans and specifications. Dedicated to careful project management, accurate material tracking, careful monitoring of the construction process and detailed record keeping of work performance and payments – our full range of construction admin services ensures your project runs smoothly from beginning

Services Provided:

- Bidding Assistance
- Cost Estimating
- Contract Documentation
- Budget Control
- Contract Administration
- Grant/Funding Documentation
- Construction Observation
- Field Staking/Layout
- Contractor Payment Requests
- Change Orders
- Shop Drawing Reviews
- Record Drawings
- Warranty Work
- Operation and Maintenance Manuals
- Social Media/Public Outreach
- Campaigns
- Drone Inspections/Progress Videos

Heavy Construction

- Wastewater Treatment Plants
- Water Treatment Plants

Development

QA/QC for compliance with local, county and state ordinances and regulatory requirements

Transportation

- FDOT CEI Services, including LAP
- FDOT CTQP Managers and Inspectors
- Roadway Construction/Reconstruction
- Intersections
- Bridges
- Bicycle/Pedestrian Paths
- Parking Lots

Infrastructure

- Water Mains
- Sanitary Sewers
- Force Mains
- Pumping/Lift Stations
- Storm Sewers



BAXTER & WOODMAN
Consulting Engineers

www.baxterwoodman.com

CONCENTRIC INTEGRATION

Baxter & Woodman believes technology provides the key to operational efficiency. Our subsidiary, Concentric Integration, focuses on the unique technology needs of municipalities by creating products, systems, and methodologies to quickly improve operational efficiency and control costs. We've made it simpler to operate with greater intelligence, thanks to our unique team of experts within systems integration, water/ wastewater and IT. From designing and implementing complete SCADA systems to installing a printer driver, Concentric ensures you get a product that does the job and is easy to use!

Consulting/Design

- Design Advice
- Reporting
- Long-Range Planning
- Municipal/Utility Recommendations
- Technology Needs
- Radio Design/Surveys
- Mobile Computing
- Police/Fire Support
- Business Process Engineering
- Water/Wastewater Process Automation
- Staff Optimization

Security

- Network
- SCADA
- GIS
- Facilities and Access Hardware
- Human Resource Policies

Maintenance

- Regularly Scheduled Visits
- Basic Instrumentation
- Controls
- Calibration

Development/Software/Hosted Applications

- Municipal Web Design
- Web 2.0 Consulting
- Inventory Management
- GIS Development
- Permit Tracking
- Code/Ordinance Storage and Search

Fabrication and Installation

- Panel Fabrication
- General Installation Services

Training

- On site or in our Computer Lab

Concentric Emergency Repair Services

- 24 Hours/Day- 7 Days/Week – 365 Days/Year



www.baxterwoodman.com

SUSTAINABLE SERVICES

Baxter & Woodman advocates for a sustainable future...

and will educate our staff and clients, innovate processes, and integrate solutions that provide a responsible balance of economic, environmental, operational, and social value.

Sustainability impacts every element of engineering design. From green materials selection to energy and resources efficient infrastructure facilities, sustainability practices are now the standard, not the exception. Baxter & Woodman has certified LEED engineers and Envision Sustainability Professionals certified by the Institute for Sustainable Infrastructure on-staff and provides clients with engineering solutions that are cost-effective, innovative and functional. A sustainable approach brings inherent long-term value to projects including improvements to environmental quality, aesthetics and overall quality of life. Our goal to bring sustainability to your projects includes these representative services:

GENERAL

"Green" Ordinance Writing
Energy Efficient and Adaptive Lighting
Environmental Site Assessment & Brownfield Redevelopment
Low-Impact Trenchless Construction and Rehabilitation

WATER & WASTEWATER

Perform Energy Efficiency Reviews
Energy-Efficient Process Design
Aeration Improvements to Reduce Energy
Energy Audits
Life-Cycle Analysis
Water Conservation Studies and Planning
Water Reuse for In-Plant Use, Public Distribution and Irrigation
Biogas-to-Energy
Co-Digestion of Fats, Oils, and Greases

TRANSPORTATION & STORMWATER

Erosion and Sediment Control
Stormwater Best Management Practices
Rain Gardens and Native Plants
Permeable Pavement

BAXTER & WOODMAN
Consulting Engineers

Sustainable Water Solutions

Sustainable thinking requires a fresh approach to the way we plan, manage, and use our water supply. At Baxter & Woodman, sustainable concepts are integrated throughout all our water system projects. Interested in long-term cost savings and greater efficiency? Ready to increase asset value and improve public perception and stakeholder relations?

We have utilized numerous water service strategies for water efficiency, energy and atmosphere, and materials and resources.

WWTP
aeration
system
improvements
combined
original and
new equipment
to reduce the
electrical base
load by 33%.



Green Parking Lot
with permeable
brick pavers
for stormwater
infiltration, trees to
reduce urban heat
island effect, and
combined sewer
separation.



www.baxterwoodman.com

3. EMPLOYEES AND PERSONNEL Provide a separate listing for personnel at the corporate (national) level, with the state (Florida) level and for the local office.

Permanent Office Staff	Number	Avg. Years With Firm		
		1-5	5-10	10+
Administrative	1	X		
Project Management	4			X
Engineers	5			X
Design/Drafting	2			X
Computer Services	0			

Permanent Office Staff	Number	Avg. Years With Firm		
		1-5	5-10	10+
Clerical /Technicians	0			
Procurement	0			
Project Control and Estimating	5			X
Construction Management	3			X
Research and Development	5			X

Local Office Location: Fort Lauderdale, FL

Personnel in Organization by Discipline.

Discipline	Engineers		Designers
	Reg	Total	Total
Civil	5	5	5
Sanitary			
Structural			
Mechanical			
HVAC			
Process			
Electrical			
Instrumentation			
Industrial			

3. EMPLOYEES AND PERSONNEL Provide a separate listing for personnel at the corporate (national) level, with the state (Florida) level and for the local office.

Permanent Office Staff	Number	Avg. Years With Firm			Permanent Office Staff	Number	Avg. Years With Firm		
		1-5	5-10	10+			1-5	5-10	10+
Administrative	25		X		Clerical /Technicians	33			X
Project Management	30			X	Procurement	0			
Engineers	86			X	Project Control and Estimating	30			X
Design/Drafting	13			X	Construction Management	6			X
Computer Services	3			X	Research and Development	30			X

National Office Location: Crystal Lake, IL

Personnel in Organization by Discipline.

Discipline	Engineers		Designers Total
	Reg	Total	
Civil	86	86	86
Sanitary			
Structural	3	3	3
Mechanical			
HVAC			
Process			
Electrical	3	3	3
Instrumentation			
Industrial			

Discipline (Procurement)	Personnel
Capital Equipment Buyers	_____
Subcontract Administrators	_____
Bulk Material Buyers	_____
Inspection/Expediting	_____
Clerical/Technical Support	58

Discipline (Construction Management)	Personnel
Field Superintendents	_____
Home Office Management	_____
Planners (Site, City, Community)	_____
Architects	_____
Other	20

Maximum Man-Hours Available Per Year:	TBD
Current Estimated Man-Hours Per Year:	TBD

4. FINANCIAL INFORMATION

A. Attach a copy of current audited income statement and balance sheet. **We respectfully request the attached financial information is kept confidential.**

5. WORK EXPERIENCE:

A. Types of Services Provided (Check Yes or No)

	Yes	No		Yes	No
Feasibility Studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stress Analysis*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drawings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pipeline	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Preparation of Specifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Surveying	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Construction Mgmt. Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Direct Hire Field Construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Process Problem Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Detailed Instrumentation & Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Energy Conservation Studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Process Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Soil and Foundation Studies	<input type="checkbox"/>	<input type="checkbox"/>	Equipment Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Foundation Design	<input type="checkbox"/>	<input type="checkbox"/>	Detailed Electrical	<input type="checkbox"/>	<input type="checkbox"/>
Structural Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Detailed Piping Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Testing Capability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Construction Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Detailed Mechanical	<input type="checkbox"/>	<input type="checkbox"/>			



**BAXTER & WOODMAN, INC.
AND SUBSIDIARIES**

**CONSOLIDATED FINANCIAL STATEMENTS AND
INDEPENDENT AUDITOR'S REPORT**

For the Years Ended December 31, 2018 and 2017



BAXTER & WOODMAN, INC. AND SUBSIDIARIES
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Consolidated Statements of Changes in Stockholders’ Equity	8
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1415 West Diehl Road, Suite 400
Naperville, IL 60563
630.566.8400

SIKICH.COM

CERTIFIED PUBLIC ACCOUNTANTS & ADVISORS
Members of American Institute of Certified Public Accountants

INDEPENDENT AUDITOR'S REPORT

Board of Directors
Baxter & Woodman, Inc. and Subsidiaries
Crystal Lake, Illinois

We have audited the accompanying consolidated balance sheets of Baxter & Woodman, Inc. and Subsidiaries (the Company) as of December 31, 2018 and 2017, and the related statements of income, changes in stockholders' equity, and cash flows for the years then ended and the related notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Company's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

ACCOUNTING TECHNOLOGY ADVISORY

- 3 -

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Baxter & Woodman, Inc. and Subsidiaries as of December 31, 2018 and 2017, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Sikich LLP

Naperville, Illinois
March 20, 2019

BAXTER & WOODMAN, INC. AND SUBSIDIARIES

CONSOLIDATED BALANCE SHEETS

December 31, 2018 and 2017

	2018	2017
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents	\$ 1,480,109	\$ 1,312,800
Accounts receivable (net of reserve for bad debts of \$41,727 and \$20,109 for 2018 and 2017, respectively)	5,820,943	5,430,809
Unbilled work-in-process	2,385,445	2,163,786
Inventories, net	83,431	80,275
Prepaid expenses	387,323	459,628
Prepaid income tax	-	10,490
Total current assets	10,157,251	9,457,788
PROPERTY, PLANT, AND EQUIPMENT		
Land	364,502	364,502
Building and improvements	6,969,969	6,902,639
Office furniture, fixtures, and equipment	4,244,018	4,147,460
Professional and scientific equipment	1,385,497	1,354,608
Leasehold improvements	963,433	885,069
Automobiles	284,682	210,428
Less accumulated depreciation and amortization	(9,634,078)	(9,292,937)
Net property, plant, and equipment	4,578,023	4,571,769
OTHER ASSETS		
Cash surrender value of officers' life insurance, net	2,055,889	2,477,327
Goodwill, net of accumulated amortization of \$187,667 and \$265,863 for 2018 and 2017, respectively	1,423,140	1,610,807
Deferred income taxes	566,701	709,264
Software development costs	52,533	13,528
Investment in joint venture	-	-
Total other assets	4,098,263	4,810,926
TOTAL ASSETS	\$ 18,833,537	\$ 18,840,483

(This statement is continued on the following page.)

BAXTER & WOODMAN, INC. AND SUBSIDIARIES

CONSOLIDATED BALANCE SHEETS (Continued)

December 31, 2018 and 2017

	2018	2017
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Accounts payable and accrued expenses	\$ 4,884,096	\$ 4,672,180
Income tax payable	60,888	-
Current portion of notes payable	576,349	588,988
Current portion of stock redemption payable	104,690	86,834
Current portion of deferred compensation	205,861	290,266
Voluntary compensation deferral	1,779,094	2,112,299
Deferred revenue	471,762	781,710
Deferred income taxes	464,584	182,026
Total current liabilities	8,547,324	8,714,303
LONG-TERM LIABILITIES		
Notes payable, net of current portion	2,442,555	2,973,966
Stock redemption payable, net of current portion	284,755	313,790
Deferred compensation, net of current portion	2,141,087	2,308,263
Total long-term liabilities	4,868,397	5,596,019
Total liabilities	13,415,721	14,310,322
STOCKHOLDERS' EQUITY		
Common stock		
Class A, nonvoting, no par value, \$2.65 stated value, 303,385 shares authorized, 289,385 and 296,885 shares issued and outstanding for 2018 and 2017, respectively	766,870	786,745
Class B, voting, no par value, \$0.50 stated value, 1,000,000 shares authorized, 400,985 and 385,835 shares issued and outstanding for 2018 and 2017, respectively	200,493	192,918
Stockholder advances	(84,252)	(57,814)
Paid-in surplus	893,047	750,143
Retained earnings	3,730,311	2,913,471
Total Baxter & Woodman Inc. stockholders' equity	5,506,469	4,585,463
Noncontrolling interest - Waterly LLC	(88,653)	(55,302)
Total stockholders' equity	5,417,816	4,530,161
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 18,833,537	\$ 18,840,483

See accompanying notes to consolidated financial statements.

BAXTER & WOODMAN, INC. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF INCOME

For the Years Ended December 31, 2018 and 2017

	2018	2017
REVENUE FROM ENGINEERING SERVICES	\$ 45,825,613	\$ 40,001,339
DIRECT ENGINEERING SERVICES COSTS, PAYROLL, AND RELATED COSTS	25,769,535	22,284,156
Revenue less direct engineering services costs, payroll, and related costs	20,056,078	17,717,183
OTHER OPERATING EXPENSES	14,096,950	12,638,659
Operating income before discretionary expenses	5,959,128	5,078,524
DISCRETIONARY EXPENSES		
Bonus	2,383,100	2,425,685
Retirement plan	1,967,974	1,856,500
Total discretionary expenses	4,351,074	4,282,185
Operating income	1,608,054	796,339
NON-OPERATING INCOME (EXPENSE)		
Interest income	911	530
Interest expense	(231,397)	(222,102)
Total non-operating income (expense)	(230,486)	(221,572)
Income before federal and state income taxes	1,377,568	574,767
FEDERAL AND STATE INCOME TAXES		
Current	120,417	25,083
Deferred	425,122	352,505
Total federal and state income taxes	545,539	377,588
NET INCOME	<u>\$ 832,029</u>	<u>\$ 197,179</u>
AMOUNTS ATTRIBUTABLE TO NONCONTROLLING INTEREST AND BAXTER & WOODMAN, INC. STOCKHOLDERS		
Net income (loss) attributable to		
Noncontrolling interest - Waterly LLC	\$ (33,351)	\$ (55,302)
Baxter & Woodman, Inc. stockholders	865,380	252,481
NET INCOME	<u>\$ 832,029</u>	<u>\$ 197,179</u>

See accompanying notes to consolidated financial statements.

Procurement ☒ ☐ Inspection/Expediting ☒ ☐

B. Drafting Method Utilized:

*Manual ☒ Computer ☒ If Computer, What Program: CAD

C. Please attach summaries for projects, related to the type of work to be awarded as a result of this submittal, completed by your firms including:

**Please find project summaries located in the Previous Performance on Related Projects Section.

- 1) Location of project and client
- 2) Description of project
- 3) Your scope of involvement in project
- 4) Contract type (e.g. reimbursable/fixed fee/fixed price)
- 5) Approximate value of contract
- 6) Duration of work
- 7) Project Manager Utilized

6. EXPERIENCE WITH THE CITY OF HOLLYWOOD

**A. Most Recent City of Hollywood Work Experience:
(Date/Location/Description)**

N/A

**B. Current City of Hollywood Engineering services agreement, if any:
(Agreement Number/Expiration Date/Location/Description)**

N/A

7. SUBCONTRACTED SERVICES:

List Subcontractor/ Sub-consultant firms expected to be utilized, and their portion of the work below:

Name of Firm	Area of work to be Performed under this agreement
Florida Engineering and Testing	Geotechnical Services
Ritzel-Mason, Inc.	Subsurface Utility Location Services
Archaeological & Historical Conservatory	Cultural Resource Assessment Surveys
Gartek Engineering Corporation	Electrical & Controls Engineering, Fuel Systems related to emergency generators

Also, provide resumes of individuals from these firms whom the Subcontractors shall utilize for completion of the construction.

Identify those subcontractors that are Minority/Women's Business Enterprises and repeat required information in "Minority/Woman Business Participation", below for said Subcontractors. (THIS REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

8. BUSINESS SIZE AND CLASSIFICATION

A. Size (check one)

☒ Small

A domestic concern that normally employs less than 500 persons, or as defined by section 3 of the Small Business Act.

☐ Large

A domestic concern which, including domestic and foreign divisions and affiliates, normally employs 500 or more persons, is independently or publicly owned or controlled and operated and

which may be a division of another domestic or foreign concern.

f. B. Classification (check where applicable; may be more than one)

☐ Foreign:

A concern which is not incorporated in the United States or an unincorporated concern having its principal place of business outside the United States.

☐ Minority:

A business, at least 50% of which is owned by minority group members, or, in case of publicly owned businesses, at least 51% of the stock of which is owned by minority group members. For the purpose of this definition, minority group members are Black-Americans, Hispanic-Americans, American-Orientals, American-Indians, American-Eskimos, and American-Aleuts.

(THE REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

☐ Women:

A business that is at least 51% owned and controlled by a woman or women.

(THE REQUIREMENT FOR M/WBE INFORMATION IS VOLUNTARY)

☐ Nonprofit:

A business or organization that has received nonprofit status under IRS Regulation 501C3.

☐ Sheltered:

A sheltered workshop or other equivalent business basically employing the handicapped.

Please indicate in the space below how your firm complies with the definitions selected above.

9. PROFESSIONAL ENGINEER'S LICENSE:

Respondent must hold a valid State of Florida Professional Engineer's License to be considered a qualified bidder.

State of Florida Professional Engineer's License
No.:

CA31795

Date: Expiration Date: February 28, 2021

Primary

Classification:

Civil Engineering Firm

10. QUALIFICATION FORM PREPARED BY:

Name (print or type): Rebecca Travis, PE, ENV SP

Title: Executive Vice President/Florida Division Manager

Signature: 

Address: 477 South Rosemary Ave., Suite 330, West Palm Beach, FL 33401

Telephone Number: 561-655-6175

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, 2020, that its most recent annual report/uniform business report was filed on January 15, 2020, and that its status is active.

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

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fifteenth day of January, 2020*



Randy Bee
Secretary of State

Tracking Number: 9836844798CC

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

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



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BAXTER & WOODMAN, INC.

MATHEWS CONSULTING A BAXTER & WOODMAN COMPANY
8678 RIDGEFIELD ROAD
CRYSTAL LAKE IL 60012

LICENSE NUMBER: CA31795

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

City of Hollywood, FL Department of Public Utilities • Project No. 20-8532 • Design & Construction
Administration for Backup Electrical Power Generators for Sewer Lift Stations • 200788.10

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020

DBA: LOUIS DOMINIC HAUSSMANN
Business Name:

Receipt #: 315-283919
Business Type: ENGINEER (ENGINEER)

Owner Name: BAXTER & WOODMAN INC
Business Location: 6600 N ANDREWS AVE STE 100
FT LAUDERDALE
Business Phone: 5616554125

Business Opened: 05/08/2017
State/County/Cert/Reg: 81515
Exemption Code:

Rooms **Seats** **Employees** **Machines** **Professionals**
3

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

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

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

Mailing Address:

BAXTER & WOODMAN INC
6600 N ANDREWS AVE STE 100
FORT LAUDERDALE, FL 33309

Receipt # 10A-18-00000825
Paid 09/23/2019 33.00

2019 - 2020

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

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Business Opened: 05/08/2017
State/County/Cert/Reg: 81515
Exemption Code:

Rooms **Seats** **Employees** **Machines** **Professionals**
3

For Vending Business Only						
Number of Machines:				Vending Type:		
Signature	Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost
	30.00	3.00	0.00	0.00	0.00	0.00
						33.00

Receipt # 10A-18-00000825
Paid 09/23/2019 33.00



CITY OF FORT LAUDERDALE | BUSINESS TAX DIVISION
BUSINESS TAX YEAR 2019-2020

100 N. Andrews Avenue, 1st Floor, Fort Lauderdale, Florida 33301
(954) 828-5195



Business ID: 1702133 Business Name: BAXTER & WOODMAN INC
Business Address: 6600 N ANDREWS AVE # 100
Tax Category: CONSULTANT (UNCLASSIFIED) Tax#: 746494 Fee:

BAXTER & WOODMAN INC
8678 RIDGEFIELD RD
CRYSTAL LAKE, IL 60012

DETACH AND POST THIS RECEIPT IN A CONSPICUOUS PLACE

Business ID: 1702133
Tax Number: 746494
Business Name: BAXTER & WOODMAN INC
Business Address: 6600 N ANDREWS AVE # 100
Business Contact: HAUSSMANN, LOUIS D

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have moved out of the city, please email businesstax@fortlauderdale.gov and include the Business ID #.
- A transfer of business location within the city limits is subject to zoning approval. Complete a Business Tax Transfer Application and bring it to our office to obtain the necessary approval.
- If you have sold your business, please provide us with a copy of the Bill of Sale.
- A Transfer fee of 10% of the annual business tax fee applies. The fee shall not be less than \$3.00, nor greater than \$25.00.

Please be advised that this issuance of a Local Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Local Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

BUSINESS TAX DIVISION
100 N. Andrews Avenue, 1st Floor, Fort Lauderdale, Florida 33301
Phone (954)828-5195 | Fax (954)828-5881
www.fortlauderdale.gov

Rev. 6/19/2019



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
1/6/2020

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 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 Risk Strategies Company 650 Dundee Road Suite 170 Northbrook IL 60062		CONTACT NAME: PHONE (A/C, No, Ext): (847) 412-1414 FAX (A/C, No): E-MAIL: ADDRESS:	
INSURED Baxter & Woodman, Inc. 8678 Ridgfield Road Crystal Lake IL 60012		INSURER(S) AFFORDING COVERAGE INSURER A: Valley Forge Ins Co NAIC # 20508 INSURER B: Continental Insurance Company INSURER C: Continental Casualty Company INSURER D: INSURER E: INSURER F:	

COVERAGES

CERTIFICATE NUMBER: CL19122744767

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			6045872351	1/1/2020	1/1/2021	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000
	<input checked="" type="checkbox"/> primary/non contributory						MED EXP (Any one person) \$ 15,000
	<input checked="" type="checkbox"/> subj to written contract						PERSONAL & ADV INJURY \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 2,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$ 2,000,000
	OTHER:						\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY			6045872348	1/1/2020	1/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS						BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR			6045872365	1/1/2020	1/1/2021	EACH OCCURRENCE \$ 5,000,000
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$ 5,000,000
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						\$
							\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			6045872379	1/1/2020	1/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional Liability			AEH591900841	1/1/2020	1/1/2021	Per Claim \$5,000,000 Aggregate \$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

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 Michael Christian/CID <i>M.C. Christian</i>

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ACORD 25 (2014/01)
INS025 (201401)

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BAXTER & WOODMAN
Consulting Engineers



TAB C: Profile of Consultant

PROFILE OF CONSULTANT

A. STATE WHETHER YOUR ORGANIZATION IS NATIONAL, REGIONAL OR LOCAL.

Baxter & Woodman is a national civil engineering firm and was incorporated February 1, 1969 in the State of Illinois. Municipalities, counties and state agencies are served from offices in Illinois, Wisconsin and Florida. The firm is authorized to transact business in the State of Florida under the Department of State Certification No. F16000002059.

B. STATE THE LOCATION OF THE OFFICE FROM WHICH YOUR WORK IS TO BE PERFORMED.

Baxter & Woodman will perform all work out of our local South Florida offices. Contact information for Baxter & Woodman's local Florida Offices are as follows:

Address: 6600 N. Andrews Ave., Suite 100
Fort Lauderdale, FL 33309
Contact: Mark Dachsteiner, PE
Fort Lauderdale Regional Manager-
Telephone: 815-444-3300
Fax: 561-655-6179
Email: MDachstiner@baxterwoodman.com



Address: 477 S. Rosemary Avenue, Suite 330
West Palm Beach, Florida 33401
Contact: Rebecca Travis, PE, EVP SP,
Executive Vice President/Florida Division Manager
Telephone: 561-655-6175
Fax: 561-655-6179
Email: RTravis@baxterwoodman.com



C. DESCRIBE THE FIRM INCLUDING SIZE, RANGE OF ACTIVITIES, ETC.

Baxter & Woodman, Inc. is an employee-owned Engineering News-Record Top 500 Design Firm that provides planning, survey, design, construction and technology services for water, wastewater, stormwater and transportation facilities, environmental, geographic information systems (GIS), water and wastewater operations, and advanced technology needs complement the firm's civil engineering expertise. Municipalities, counties and state agencies are served from offices in Illinois, Wisconsin and Florida. Our staff of 270+ professionals help build community value through safe roads and bridges, clean water supplies, and reliable wastewater treatment.

D. PROVIDE A LIST AND DESCRIPTION OF SIMILAR MUNICIPAL AND OTHER ENGAGEMENTS SATISFACTORILY PERFORMED WITHIN THE PAST FIVE (5) YEARS. FOR EACH ENGAGEMENT LISTED, INCLUDE THE NAME AND TELEPHONE NUMBER OF A REPRESENTATIVE FOR WHOM THE ENGAGEMENT WAS UNDERTAKEN WHO CAN VERIFY SATISFACTORY PERFORMANCE.

The City of Hollywood needs a consultant who will work as a partner with the City Staff – one who will be a proactive extension of your Staff. Baxter & Woodman has a solid track record of partnering with local municipality clients to deliver the high level of personal service you desire.

We are structured to allow for a long-term commitment of specific staff to serve your needs. By having principal owners directly involved, there is no “revolving door” of staff with our project team.

Baxter & Woodman is committed to its municipal practice in South Florida. We have developed and refined our approach to surveying, mapping and engineering projects, and offer you the advantages of our partnering philosophy. Baxter & Woodman is currently under contract to provide Engineering and Surveying Services to the following municipalities:

- Town of Lauderdale-by-the-Sea
- City of Pompano Beach
- City of Tamarac
- Palm Beach County Water Utilities
- City of Boca Raton
- City of Greenacres
- City of Lake Worth Beach
- City of Oakland Park
- Martin County
- City of Delray Beach
- Florida Keys Aqueduct Authority
- Loxahatchee River District
- Town of Lantana
- Town of Highland Beach
- Town of Gulf Stream
- City of West Palm Beach
- City of Key West
- City of Marathon
- Monroe County

One of the best measures of a Consultant’s success is the response received from the firm’s clients. We encourage the City to contact any of our references listed below to provide information about our project performance. Baxter & Woodman is proud of our commitment of meeting the goals and objectives of our clients. **Over 98% of our work is performed for repeat Clients!**

A list and description of similar municipal and other engagements satisfactorily performed within the past five (5) years can be found on the following pages.

BAXTER & WOODMAN SIMILAR PROJECTS AND REFERENCES

Project Name & Representative Contact Phone Number	Project Description
Master Lift Station No. 1 Rehabilitation, Loxahatchee River Environmental Control District, FL Mr. Kris Dean, PE, Deputy Executive Director/ Director of Engineering, Loxahatchee River Environmental Control District, 561-747- 5700 ext.110	Project Scope: 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.
Wastewater Repump Station 8310 Rehabilitation Palm Beach County Water Utilities, FL Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623	Project Scope: Palm Beach County Water Utilities selected Baxter & Woodman to provide an Operating and Condition Assessment of the Wastewater Repump Station 8310 located in the City of South Bay. Baxter & Woodman were to identify potential future upgrades and improvements to the existing station. Baxter & Woodman performed interviews of key staff to understand operating and maintenance issues and performed multiple site visit to visually inspect the condition of the station and better understand the conditions that maintenance staff encounter while working on the station. A technical memorandum was generated describing all aspects of the existing pump station including mechanical systems, electrical systems, structural systems and site conditions including an evaluation of equipment useful service life and proposed improvements to rectify the concerns of the maintenance staff visits to improve pumping operations and an estimate of probable cost to implement the improvements.
Master Repump Station 9-N Palm Beach County Water Utilities, FL Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623	Project Scope: Palm Beach County Water Utilities (PBCWUD) selected Baxter & Woodman to provide data collection, engineering design, permitting and bidding services for the upgrades and improvements to Master Repump Station 9-North which is located in Boca Raton. The improvements included the replacement of gate valves, check valves, variable frequency drives, electric panels, automatic transfer switch, emergency generator, louvers, HVAC, exterior doors, hardening of building, stucco and painting of building, addition of station bypass connections and fifth inline booster pump.
Improvements to Lift Station 393, 1023 and 8168 (Abidjan Estates) Palm Beach County Water Utilities, FL Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623	Project Scope: Palm Beach County Water Utilities (PBCWUD) commissioned Baxter & Woodman (Mathews) to provide engineering services to improve the conditions of three (3) existing lift stations throughout Palm Beach County. E PBCWUD desired to relocate the lift stations into an easement, outside of the road right-of-way. A location was identified west of the west right-of-way line. Baxter & Woodman designed the demolition of the existing lift stations, conversion of the existing wetwell to a manhole, installation of the new lift station and associated equipment, gravity sewer main and new force main to tie to the new lift station.

Project Name & Representative Contact Phone Number	Project Description
Ramrod Key Pump Station – Fuel System Improvements Florida Keys Aqueduct Authority Ms. Jolynn Reynolds, PE, Manager of Engineering, Florida Keys Aqueduct Authority, 305-797-8195	Project Scope: Baxter & Woodman provided engineering services to for the improvements to the Ramroad Key Pump Station fuel system. The work included the demolition of the existing two diesel bulk storage tanks and cast-in-place concrete containment areas and installation of an owner supplied double walled, 10,000 gallon diesel bulk storage tank. Installation of a day tank to feed the emergency diesel driven pump and replacement of an existing day tank that serves the emergency diesel generator. All fuel lines between the new diesel bulk storage tank and day tanks were replaced with new stainless steel piping. Electrical and instrument and controls were upgraded to accommodate the new equipment. A covered parking area was designed in place of the demolished diesel bulk storage tanks.
Lift Station No. 45 and 51 Rehabilitation City of West Palm Beach, FL Ms. Laura Le, PE, Public Utilities Administration, City of West Palm Beach, 561-494-1093	Project Scope: Baxter & Woodman provided engineering services to rehabilitate existing lift stations No. 45 and 51 from “can” type stations to submersible stations which are located within the median of Australian Avenue. The work included providing structural modifications to the existing wet wells and replacing the existing control panel and remote telemetry units. Rerouting of gravity sewer mains, and extensive restoration of pavement was required to complete the design. At lift station No. 51, the existing emergency diesel driven standby generator was replaced with a new generator unit.
Wastewater Lift Station No. 179 Rehabilitation City of Boca Raton, FL Ms. Talia Garcia, Utilities Engineering Manager, City of Boca Raton, 561-338-7307	Project Scope: Baxter & Woodman provided an engineering services to rehabilitate the existing lift station to accommodate additional flows from future development. The existing lift station was located within an existing utility easement on private property, requiring the footprint of the new lift station to be minimized as much as possible. To accommodate the future flows, a completely new lift station would be required. Baxter & Woodman designed a new lift station adjacent to the old lift station, modified the existing wet well to be a manhole, and abandoned portions of the old easement to add new easement for a near net zero increase of easement to the approval of the private property owner. The project also included approximately 425 linear feet of horizontal directional bore of a 10” HDPE force main and surface restoration of the intersection of Congress Avenue and Broken Sound Parkway.

GARTEK ENGINEERING CORPORATION

Project Name & Representative Contact Phone Number	Project Description
Main Detention Center Generator Replacement, Palm Beach County, FL Fernando Deldago, Director of Facilities Services, FDO, 561-233-0221	Project Scope: Replacement of three 800kW generators with 2 - 2,250kW generators. Replacement of paralleling and distribution switchgear. Placed additional 200,000SF building on new EPSS. Placed two chillers of Central Plant on new EPSS. The facility was occupied and operational throughout the duration of the project.

Project Name & Representative Contact Phone Number	Project Description
<p>Federal Reserve Bank of Atlanta, Miami Branch, Generator Replacement, Federal Reserve Bank of Atlanta, Miami, FL</p> <p>Mr. John Quillen, john.quillen@atl.frb.org, (305) 471-6217</p>	<p>Project Scope: Replacement of existing 1500kW generator at a new location in the vicinity of an abandoned 250kW generator. Removal of the existing 250kW and 1500kW generators, outdoor switchgear, and portions of the existing feeders, busways, remote radiator, and fuel supply. Installation of new 1500kW generator in the storage area presently housing the 250kW generator and AHU 12. The new generator uses conventional engine radiator discharge; make-up air is via roof penthouse ventilation units.</p>
<p>Energy Center Upgrading: Electrical Switchgear, Emergency Paralleling Gear and Emergency Generators, Public Health Trust/Jackson Memorial Health, Miami, FL</p> <p>Douglas Rodriguez, Engineering II, 305-585-6539</p>	<p>Services provided at several buildings which are fully functional and occupied by patients, staff and visitors 24 hours a day/7 days a week/365 days a year. Upgrades, renovations and modifications under this contract performed will no service interruptions. The majority of these improvements took place within the critical care areas, trauma and other areas where patients are on life saving or life sustaining equipment. Projects to include:</p> <p>Utility Center:</p> <ul style="list-style-type: none"> • Temporary portable generator integration – 2 RFIs with 3 day turnaround • Parallel Essential and Non-Essential 4160V Switchgear • Install new 4160V, 2 MW, diesel fuel generator • Add 4 new feeder positions in new switchgear line-up (to supply Energy Center, Trauma, North Wing) • Increase fuel storage supply for a total of 5 generators (8.2MW) <p>Energy Center:</p> <ul style="list-style-type: none"> • Install two new 3000 kVA, 4160V-277/480V Unit substations • Transfer existing emergency load to new switchgear • Remove 4 existing 900 kW generators • Provide new HVAC for existing and new switchgear rooms • Remove existing 50,000-gallon diesel fuel tanks <p>Trauma Center</p> <ul style="list-style-type: none"> • Install new 2000 kVA, 4160V-277/480V Unit substation • Relocate existent emergency switchgear from basement to above flood plane • Transfer all emergency load to new switchgear <p>Campus-wide</p> <ul style="list-style-type: none"> • Provide new Power Monitoring System on all emergency load supplied by the reworked Utility Center Generators (approx. 60 ATS's) • Install new 4160V underground feeders to the Energy Center and Trauma Building • Install empty duct bank for future 4160V feeder to the North Wing

E. PROVIDE INFORMATION ON ANY LITIGATION (SETTLED OR PENDING) THE FIRM HAS BEEN INVOLVED IN WITHIN THE LAST FIVE (5) YEARS.

Baxter & Woodman, Inc has never defaulted on a contract.

Case Dismissed - Village of Itasca vs. Baxter & Woodman, Inc. and Baxter & Woodman Control Systems Integration, LLC. Village alleges that sludge dewatering and UV disinfection systems designed and inspected by Baxter & Woodman, Inc. for the new wastewater treatment plant are not functioning properly. The Village alleges that a SCADA system installed by BWCSI is not functioning properly. Amicably resolved by both parties and the case was dismissed with prejudice April, 2018.

Case Dismissed - Thorn Creek Sanitary District vs. Baxter & Woodman, Inc. Suit involves a corrosion control study for which Baxter & Woodman, Inc. provided preliminary engineering services. The District alleges that recommendations made to install a system sulfide corrosion control of sewer pipes were ineffective. Dismissed with prejudice on May 19, 2017.

F. DESCRIBE THE EXPERIENCE IN CONDUCTING SIMILAR PROJECTS FOR EACH OF THE STAFF ASSIGNED TO THE ENGAGEMENT. DESCRIBE THE RELEVANT EDUCATIONAL BACKGROUND OF EACH INDIVIDUAL.

Rebecca Travis, PE, ENV SP

Project Director

Education: B.S., Civil Engineering, Iowa State University

Rebecca has civil engineering design, project management and QA/QC review 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.



Mark Dachsteiner, PE

Construction Project Manager

Education: B.S., Mining Engineering Southern Illinois University

Mark has 33 years of municipal engineering experience including extensive knowledge in delivering successful roadway and utility projects. Overseeing our Fort Lauderdale office, Mark is always available to our Florida clients from visiting project sites, collecting data, and attending meetings to providing coordination with City staff or permitting agencies.



Sira Prinyavivatkul, PE

Design Project Manager

Education: B.S. Ocean Engineering, Florida Atlantic University

Sira is a Florida licensed Professional Engineer with 19 years of Civil Engineering experience. Sira's disciplines of practice include public, private commercial, private residential, and private industrial projects that encompassed lift stations, sanitary sewers, stormwater management, potable water, reuse, parking lots, and roadways.



Courtney Marshall, PE

Project Engineer/Grant Funding Coordinator

Education: B.S., Environmental Engineering University of Florida

Courtney has over six years of engineering design, permitting, and bidding services for roadway and infrastructure improvements, stormwater management systems, potable water systems, reclaimed water systems and wastewater collection and transmission systems.



Charles Brunner, PE, SE

Structural Engineer

Education: B.S., Civil Engineering, Purdue University

Chuck is called upon to review the structural design of all projects, including well houses, pumping stations, water storage facilities, water and wastewater treatment facilities, bridges, retaining walls, and drainage structures. He is also an IDOT-approved National Bridge Inspection Program Manager and routinely prepares bridge inspection reports for our municipal clients.



Anthony Bianchin, PE, PLS

Surveyor

Education: B.S., Civil Engineering, Illinois Institute of Technology, 1993

Tony has 27 years of design and land surveying experience. His expertise includes the design of roadway reconstruction, roadway realignment, storm sewer, sanitary sewer, and water main projects. He is also proficient in the preparation of right-of-way acquisition, plat, and legal description documents. Tony teaches several surveying courses at the College of Lake County.



G. DESCRIBE THE ORGANIZATION OF THE PROPOSED PROJECT TEAM, STRESSING LEVEL OF EXPERIENCE AND QUALIFICATION, DETAILING THE LEVEL OF INVOLVEMENT, FIELD OF EXPERTISE AND ESTIMATED HOURS FOR EACH MEMBER OF THE TEAM.



REBECCA TRAVIS, PE, ENV SP - PROJECT DIRECTOR

- **Years of Experience:** 35 years
- **Qualifications:** Licensed professional engineer: FL; LEED Green Assoc., Envision Sustainability Professional; Florida Dept of Environmental Protection, Stormwater Erosion & Sedimentation Control Qualified Stormwater Management Inspector (#34512)
- **Level of Involvement:** Rebecca will be involved in all phases of the project.
- **Field of Expertise:** QA/QC Review/Planning/Design Development/Permitting/Construction
- **Estimated Hours:** 80%

MARK DACHSTEINER, PE - CEI PROJECT MANAGER

- **Years of Experience:** 33 years
- **Qualifications:** Licensed professional engineer: FL, IL; FDOT CTPQ Certified and IDOT Certified
- **Level of Involvement:** Mark will be involved in: Coordinating of the survey teams, Site Investigation, Data Collection, Records Research, Bidding, and Construction Administration
- **Field of Expertise:** Project Management/Client Services Management/Construction Services Management
- **Estimated Hours:** 50%

SIRA "JOCKEY" PRINYAVIVATKUL, PE - DESIGN PROJECT MANAGER

- **Years of Experience:** 20 years
- **Qualifications:** Licensed professional engineer: FL
- **Level of Involvement:** Sira will be involved in design of water and wastewater infrastructure including lift station, sanitary sewer, stormwater management, potable water, and water reclamation projects, along with providing engineering design, permitting, bidding, construction management and observation.
- **Field of Expertise:** Project Management/Client Services Management/Construction Services Management
- **Estimated Hours:** 50%

COURTNEY MARSHALL, PE - PROJECT ENGINEER/GRANT FUNDING COORDINATOR

- **Years of Experience:** 6 years
- **Qualifications:** Licensed Professional Engineer: FL; Certificate of Training/Attendance: 33rd Annual Governor's Hurricane Conference; Certificate of Achievement: Writing A Competitive FDOT SRTS Application; Florida Dept of Transportation GAP Web-based System for Local Project Delivery; SFWMD Certificate: Stormwater Management
- **Level of Involvement:** Courtney will be involved in: utility coordination, geotech coordination, bidding assist, grant assistance/reporting during design & construction.
- **Field of Expertise:** Engineering Design/Permitting/Bidding Services
- **Estimated Hours:** 60%

ANTHONY BIANCHIN, PE, PLS - SURVEYING

- **Years of Experience:** 26 years
- **Qualifications:** Licensed Professional Land Surveyor: IL, WI; Licensed Professional Surveyor and Mapper: FL; Licensed Professional Engineer: IL
- **Level of Involvement:** Anthony will be involved in all phases of the project in which quality control and quality assurance are needed
- **Field of Expertise:** Design and Land Surveying and Mapping, Flood Elevation Certifications
- **Estimated Hours:** 75%

CHARLES BRUNNER, PE, SE - STRUCTURAL ENGINEER

- **Years of Experience:** 37 years
- **Qualifications:** Licensed Structural Engineer: IL; Licensed Professional Engineer: IL, FL, WI; NBIS Certified Program Manager, National Highway Institute
- **Level of Involvement:** Charles will be involved in the structural design of the generator foundations and enclosure modifications, railing, etc.
- **Field of Expertise:** Structural Design
- **Estimated Hours:** 50%

H. DESCRIBE WHAT MUNICIPAL STAFF SUPPORT IS ANTICIPATED FOR THIS TYPE OF ENGAGEMENT.

Baxter & Woodman anticipates that City staff would be made available to provide information on the City's wastewater and stormwater systems, the existing generators and enclosures, information on the controls and telemetry systems, provide access to the sites, assist with confirmation of direction to FPL regarding the need for service feed upgrade requirements, attend design kickoff meetings and other scheduled design review meetings, provide operational and maintenance knowledge for the stations, generators, RTUs and fuel systems, provide review comments in a timely manner following design submittals, provide the City's "front end" contract documents for the purposes of preparation of the bid package, advertise and accept bid proposals, conduct bid opening, provide legal review of the contract documents, process the bid award through the City's approval process, attend monthly progress meetings during construction and process contractor pay applications through the City's Finance Department.

I. DESCRIBE YOUR APPROACH TO PERFORMING THE WORK. THIS SHOULD INCLUDE YOUR ROLE AND THAT OF THE OTHER PARTIES INVOLVED IN THE DATA GATHERING, DATA ANALYSIS AND RECOMMENDATION PROCESS.

This section provides Baxter & Woodman's understanding of the project and the Engineering Services to be performed under this Contract. Also included is a specific project approach that will be implemented to ensure the successful design and construction of the project. We also describe the company project management philosophy that is implemented for all projects.

We feel our project approach; outstanding team members; design and construction management experience on similar projects in South Florida and our working relationship with the regulatory agencies will be the most cost effective and provide the most experienced team for the City of Hollywood based on the following:



- We offer streamlined operations to implement projects efficiently.
- We provide cost effective engineering rates.
- Our construction management services minimize change-orders and scheduling delays.
- We are highly experienced in the design & construction of infrastructure projects in commercial and residential neighborhoods.
- We are experienced in meeting schedules.
- Our understanding of the local regulatory environment and our working relationship with permit reviewers and agency inspectors ensures timely releases and certifications for construction.
- Our ability to work with local utility agencies (e.g. electric, telephone, gas, cable TV, etc.) ensures that these utilities will be accounted for during construction activities.
- **We maintain continuity of project staff throughout duration of project.**
- We are readily accessible to serve you at a moment's notice.
- We offer a "Good Neighbor" public relations program to keep your residents and business owners informed of the project.
- **We take pride in getting the job done right "the first time".**

Our project approach will provide the City with quality engineering services at a cost effective rate, while exceeding all project deadlines and budget requirements.

PROJECT UNDERSTANDING

The City of Hollywood is requesting proposals from Engineering Consultants to provide engineering design and construction phase services for the Backup Electrical Power Generators for Sewer Lift Stations E-01, E-03, E-06, W-14, W-15 and for Stormwater Pump Station SW-08.

These six (6) stations provide wastewater pumping services and flood protection for large portions of the City's service area, and the emergency generator power provides protection from overflows, backups and street flooding. The provision of emergency power represents resiliency required for the City to serve the community during power outages.

The scope of work will include, but is not limited, to the following:

- Project Management during design, bidding and construction phases;
- Compliance monitoring with funding agencies;
- Scheduling; reporting and coordination with team members and to the City;
- Site Investigation and Data Collection;
- Preparation of the Cultural Resource Assessment Survey (CRAS) for each site;
- Surveying, geotechnical engineering, and utility coordination;
- FEMA flood elevation certificate preparation and confirmation upon construction completion;
- Grant funding monitoring and tracking assistance;
- Electrical & Controls Engineering including coordination with FPL, design of generator and controls systems, power feed upgrades, fuel systems, telemetry systems, permitting and arcflash studies;
- Structural Engineering for generator foundations, improvements or replacement of enclosures, stairs and railings;
- Site Civil Engineering including site plans, utilities coordination, access design, drainage improvements and permitting, base flood level determination;
- Bidding services;
- Construction Administration and Inspection services



Lift Station E-03



Lift Station W-15



Lift Station SW-08



Lift Station W-14

PROJECT APPROACH

Baxter & Woodman has a proven track-record in providing the design, permitting, public outreach, bidding and construction administration/inspections of pumping station site facilities. Our project approach to the project involves the following primary tasks:

- Project Kick-Off
- Data Collection / Survey Mapping / Geotechnical Investigation
- Site Reconnaissance and Utility Coordination
- Coordination with FPL – Starting During Design and Continuing Through Construction
- Final Design Services
- Cost Estimate
- Grant Funding Monitoring Assistance
- Permitting Services
- Bidding Services
- Public Outreach
- Construction Administration
- Coordination of Orders for Generator Sets (with long lead time)
- Resident Project Representative (RPR)
- Final Certification

Total Quality Assurance/Quality Control is maintained during all aspects of Baxter & Woodman's projects. Our project approach for this Contract is summarized in the Flow Chart as shown on **Figure 1** and **Figure 2** and discussed below.

Project Kick-off

Baxter & Woodman 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 City, and establishing proper communication between the consultant team and the City's staff.



Our teaming partner Gartek Engineering Corporation, will be instrumental in this project and will be involved from the start of the data collection and design process. Their experience in condition assessment, design and installation of generator sets, associated instrumentation, fuel systems and electrical power service requirements is key to this project being a successful one!

Figure 1

Design Project Approach – Flow Chart

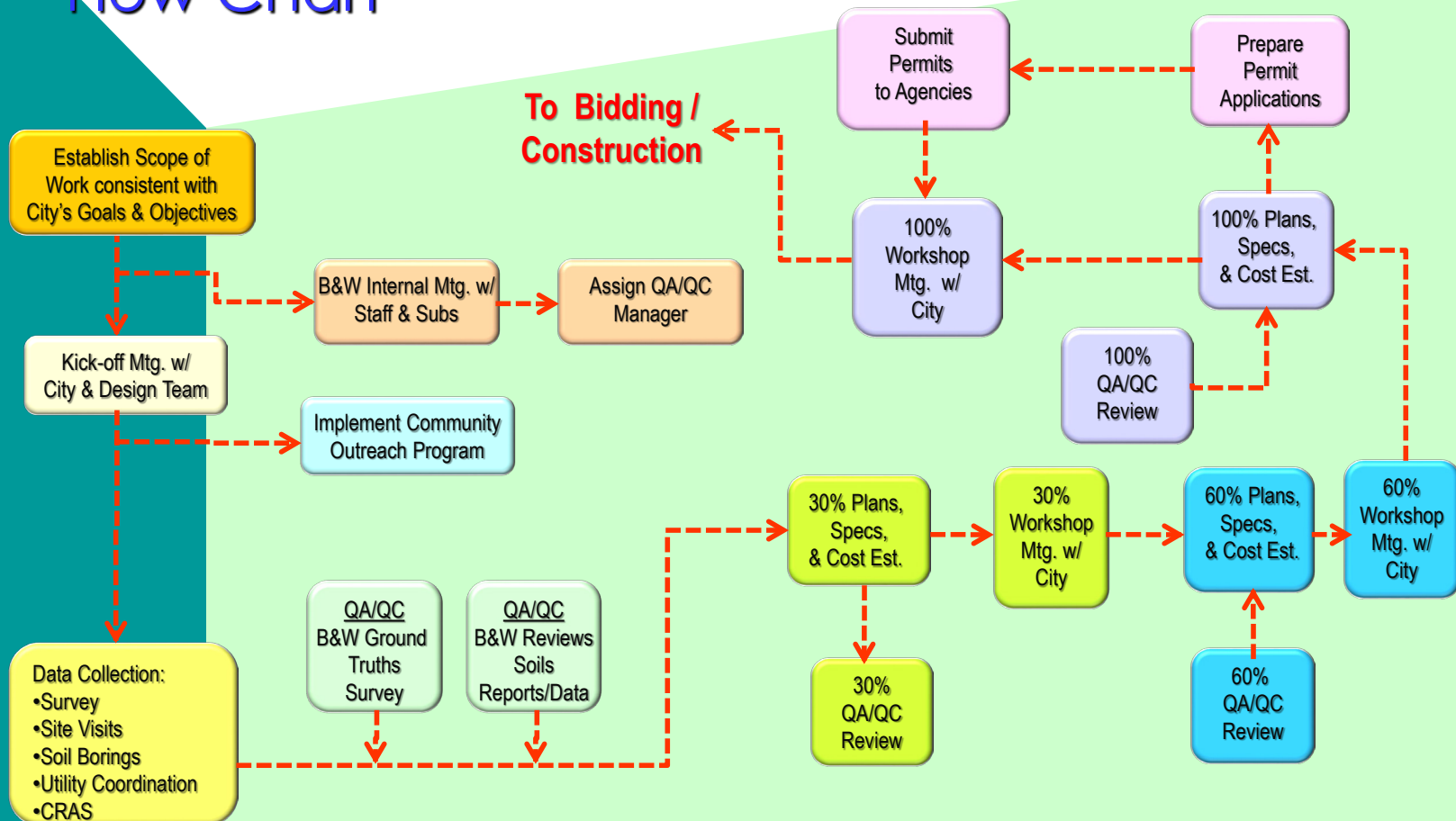
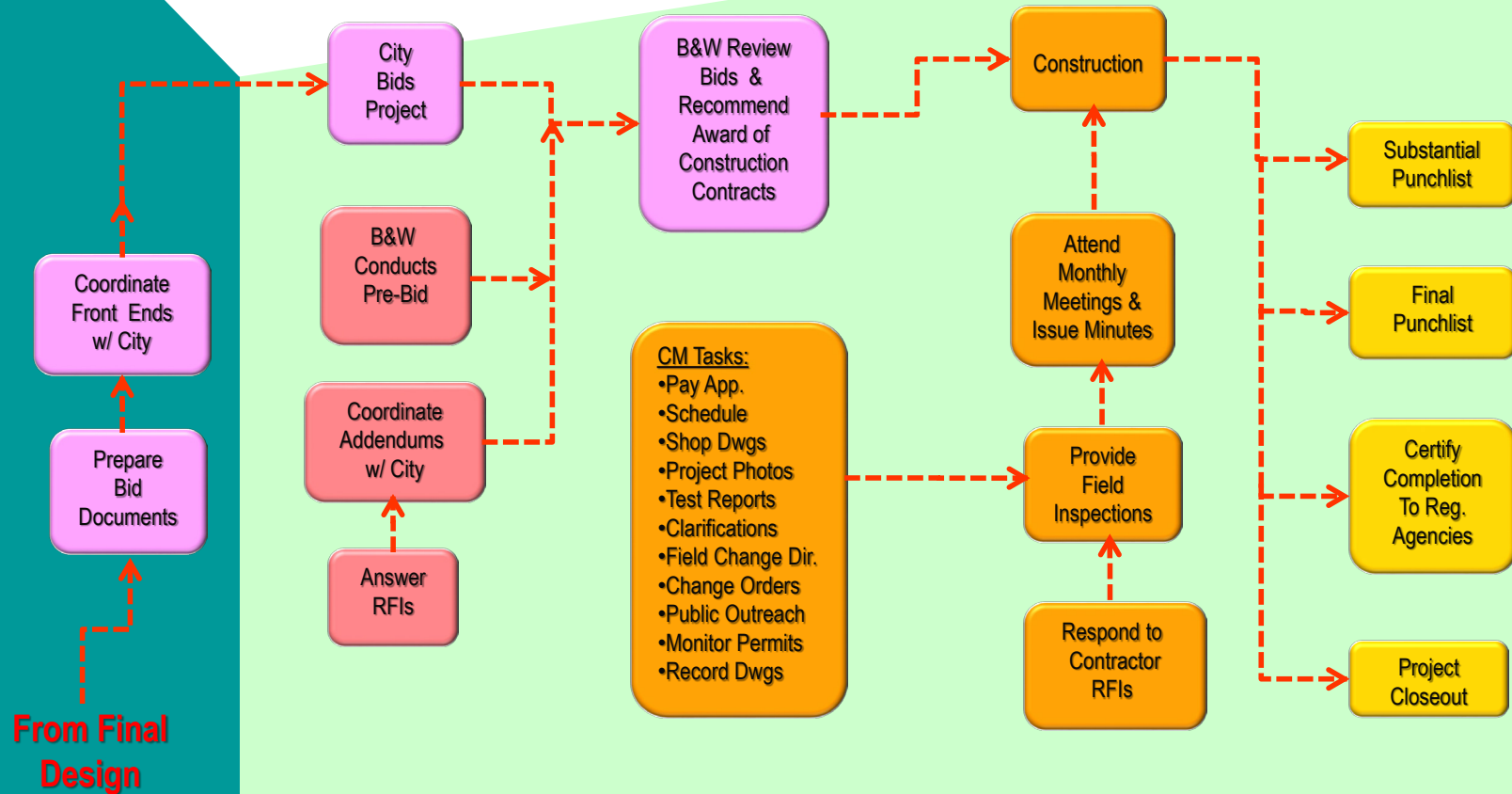


Figure 2

Bidding/Construction Project Approach – Flow Chart



Data Collection

This task involves the collection of project specific data to be used in the design of the improvements at each location and to determine base flood elevation. The survey information will be used in conjunction with the City's available record drawing (e.g. "As-Builts) information, existing GIS maps, and aerial maps.

We also propose to use **Florida Engineering and Testing** to collect geotechnical (e.g. soil information) and provide testing as needed for design purposes. A Geotechnical Report shall be prepared for each pumping station site that will provide a description of the underground soil characteristics and water table information and provide recommendations for foundation slab and drainage design.



The project team will obtain information on existing utilities in the project area in order to address utility conflicts and to determine condition and reconnection locations. Coordination with utility agencies (FP&L, AT&T, water, sewer, etc.) shall be performed to collect record information. This task includes reconciling apparent discrepancies between record information, information provided on the original design plans, and field-verification information.

B&W shall perform a field reconnaissance of each of the six (6) sites. During these site visits, B&W shall "ground truth" the survey information through field verification and create a photograph log walk-through of the individual sites.

During the data collection process, the Project Team will work closely with the City 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.

Archaeological, Historical, and Cultural Survey

B&W will utilize **Archaeological and Historical Conservancy, Inc.** to perform Cultural Resource Assessment Surveys (CRAS) of the six (6) pump station sites in order to document resources and assess the potential for project-related effects. Each CRAS will consist of background research, archaeological fieldwork and a historic structure survey. The background research will consist of the following items as applicable to each project site:

- Florida Master Site File (FMSF) cultural resource database review
- FMSF cultural resource survey database review
- Literature review
- Historic SUGS, USDA, GLO , state, county, and roadway map review
- Historical aerial review
- Environmental review
- Local information interviews

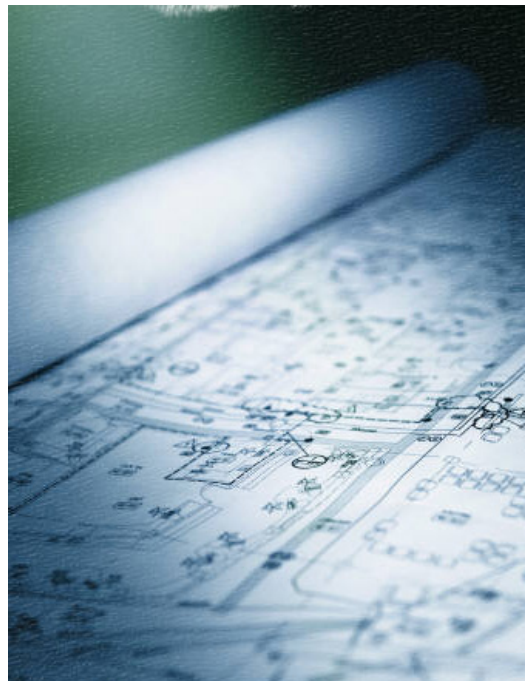
- Certified Local Government representative coordination
- County Property Appraiser database review
- Archeological site probability model development
- Historic structure probability model development

The results will be presented in a report that meets the guidelines of Chapter 1A-46 of the Florida Administrative Code. The field methods will follow the recommendations presented in Section 2 (Cultural Resource Assessment Surveys) of the FDHR's Cultural Resource Management Standards & Operations Manual.

Design

Our approach is to break each design project into two subtasks: preliminary design layout, and final design (preparation of biddable contract documents – subject to 60%, 90% and 100% reviews).

- **Preliminary Design Layout** – Based on the survey, field visits and data collected project team will prepare a 30% design technical memorandum to address required improvements at each site. The 30% design technical memorandum shall consist of the following items:
 - Condition assessment review of each existing generator installation, power feed, fuel system, telemetry and controls,
 - Condition assessment and dimensional information on the existing base slabs and enclosures,
 - Site access sufficiency,
 - Base flood elevation determination & drainage improvements,
 - Initial contact information with FPL regarding existing conditions and requirements for improvement upgrades,
 - Pre-application meeting results with applicable permitting agencies,
 - Final Topographic Surveys for all sites,
 - Completed Cultural Resource Assessment Surveys for all sites,
 - Final Geotechnical Report ,
 - Recommended improvements at each project site, including assessment of ROW and easement acquisitions,



- Upon submittal of the 30% design technical memorandum, B&W will then meet with the City to receive all comments prior to proceeding to the final design phase. The project will also be designed in accordance with City design standards and regulatory agencies requirements. Also, any requirements that need to be followed in order to receive grant funds for the project will be closely adhered to. This will also include preparation of a preliminary phasing plan, if required, to implement the construction schedule intent.
- **Contract Document Preparation** – The construction documents shall include drawings and technical specifications. Regular consultation will be made with City staff to inform them of the project's progress and to receive their input. At 60% and at 90% design completion, plans, specifications, and construction cost opinion will be submitted to the City for review.
- When the design drawings and specifications are at 100% completion, a submittal will again be made to the City and to the permitting agencies. The submittal will include a construction cost opinion. This 100% design submittal will serve as the basis for obtaining City staff's final project input as well as permit agency comments, prior to finalization of the contract documents for bid. **Throughout the design, our project team will provide necessary internal quality assurance/quality control reviews**

Project Schedule

Our proven project approach will allow us to develop a project schedule that will be maintained throughout the design, permitting and construction of the City's Backup Electrical Power Generators project. Of particular note is the construction timeframe estimate of 14 months. This assumes the City bids and awards the construction contract to a single contractor. There is the option that the City may consider awarding to two contractors, which would reduce the timeframe for construction by 3-4 months. This project has some inherent elements that result in a relatively longer construction timeframe which can be offset by awarding to a couple contractors and by coordination during design and construction. One aspect is the coordination efforts required with FPL and regular tracking and utility coordination meetings with FPL to ensure their design and required system improvements are being scheduled and completed. The other is determination of lead time and availability of generator sets during design and coordination with the contractor(s) regarding shop drawing preparation in the initial stages of the construction contract. A typical project schedule for this project from data collection through construction is presented on the following page:

PROJECT SCHEDULE

Design & Construction Admin Services for Backup Electrical Power Generators for LS E-01, E-03, E-06, W-14, W-15 & SW-08

Description	2020							2021												2022												2023					
	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
NTP (6-18-2020)	◆																																				
Site Invest, Data Collect, Records Research																																					
Archaeological, Historical & Cultural survey																																					
Site Visits																																					
FPL Coordination																																					
Topo survey, Elevation Cert																																					
SUE, Utility Coordination																																					
30% Prelim Design Memo w/ACH Report																																					
City Review (30 days)																																					
Final Design ⁽¹⁾																																					
60% Design Submittal (5 months)																																					
City Review (30 days)																																					
90% Design Submittal (2 months)																																					
City Review (21 days)																																					
100%/Permit Set (1 month)																																					
Bid Set (1 month)																																					
Permitting ⁽²⁾																																					
• Hollywood Bldg Dept (60 days)																																					
• Broward Co Env Protection (60 days)																																					
Bidding and Award (8 weeks)																																					
Construction (14 months) ⁽³⁾																																					

Notes:
(1) The design schedule is based upon conducting a review meeting within 14 calendar days after City receives the submittal. It is assumed that all comments will be received at the review meeting. An adjustment to the overall schedule will be required if it takes longer to schedule the meetings and/or to obtain comments.
(2) Estimated based upon typical regulatory agency review period.
(3) Assumes contract awarded to a single contractor. Timeframe could be shortened if awarded to more than one.



Cost Estimates

Cost estimates will be prepared at the 60, 90 and 100 percent completion stages. 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 City the opportunity to make changes in project direction based on construction budget constraints and track against the grant funding amounts.



Permitting

This project involves permitting through the City of Hollywood Building Department and Broward County Environmental Protection and Growth Management. It is very important that the regulatory agencies be involved in the project from the outset. 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.



After approval by City staff of the 100 percent submittal, the contract documents will be submitted to the appropriate regulatory agencies for construction permits. Baxter & Woodman has a strong professional relationship with all regulatory agencies in South Florida.

Bidding

The bid review process is very important in order to ensure that the Contractor selected for the work is qualified to provide the construction services 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.
- Bidder will perform a specified percentage of the work using his own forces.
- Bidder's Project Manager is experienced in executing the required work.
- Subcontractor's 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.
- Any addendum's are acknowledged.
- Bid Bond (5% bid price) is submitted with bid.
- Baxter & Woodman confirms the bidders' references.

After Baxter & Woodman has evaluated the bids we typically recommend the lowest responsible and responsive bidder whose bid meets the requirements of the Contract Documents and provides the City the best value. In situations, where the lowest bidder is not qualified, we then evaluate the second low bidder, and so forth, until a bidder is selected.

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

- Coordinate with the City'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 for issuance of addenda to the plan holders by the City.
- Respond to questions from prospective bidders and suppliers and prepare responses for issuance of addenda by the City.
- Participate in Pre-Bid meetings with interested contractors and City staff. Prepare responses as a result of the meeting, for issuance of addenda by the City.
- Review bid packages received, document the due diligence process, and recommend award for each 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.

Public Outreach

As with any infrastructure improvement project, including underground utility infrastructure improvements in residential neighborhoods or business districts, positive public relations are a vital aspect of the program.

Our approach to public outreach is to keep the public and City officials informed and involved. By using a proactive "Good Neighbor" approach with the public, the City can generate a partnering relationship with the affected residents. This can be done by keeping the public aware of project scope, road closures, schedules, and benefits of projects through handouts, flyers, website updates, social media, and other tools. We will tailor the public relations campaign to meet the project-specific needs of the City.



Profile Of Consultant

We understand that the public matters when it comes to a successful project. At the heart of the project are a series of tactics that can incorporate a variety of public education outreach techniques:

PROJECT WEBSITES

- Customized project webpages that work well for large-scale projects. Efficient to update, these sites keeps anyone interested up to date!



CONSTRUCTION OPEN HOUSE & PROGRESS MEETINGS

- Public pre-construction open house to provide initial construction information.
- Weekly meetings of construction staff to monitor the progress and record the completion percentage in the weekly minutes and on the website.



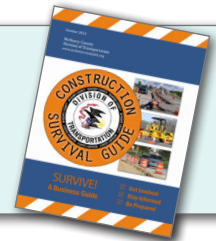
COMMUNITY MEETINGS & VISITS

- Monthly “Coffee with the Crew” information sessions held once in the morning and again in the evening to accommodate the schedules of business owners, Chamber of Commerce staff, municipal and school officials, and other community leaders.
- Supplement with regular visits by staff to individual businesses, schools, etc. to address concerns, and distribute flyers or other information.
- Attend local Chamber of Commerce meetings; provide information for their newsletter or weekly e-blast.



CONSTRUCTION SURVIVAL GUIDE

- Update a project specific Construction Survival Guide created by Baxter & Woodman with information and suggestions tailored for the impacted residents/business owners.
- Have printed copies available for distribution or downloadable from the website.



SOCIAL MEDIA UPDATES & ELECTRONIC ALERTS

- Post regular updates to a dedicated project Facebook page and/or Twitter feed.
- Utilize a messaging program, such as TextCaster or Nixle, to provide real-time traffic notifications via text message and/or email.



DRONE VIDEO IMAGERY

- Document construction progress and provide the public with an aerial understanding of construction traffic control, including detours.
- Display a “time lapse” progression where the same flight is used to record at various stages of the project and overlaid onto earlier videos.



In addition, Baxter & Woodman has provided other public outreach tools/materials:

- ◊ Develop presentations and provide speakers to attend public meetings;
- ◊ Post project updates on the City's website;
- ◊ Establish and maintain a project telephone information line;
- ◊ Prepare traffic advisory flyers;
- ◊ Prepare project press releases and project fact sheets; and,
- ◊ Develop and distribute a project newsletter.

The objective of the strong public outreach program is to convey information to the public and interested groups. By using a multi-faceted approach to convey information, the success of the effort is optimized. For example, individuals wanting specific information about a certain area of the project may feel more comfortable leaving a message on the telephone information line, instead of asking a speaker a question in front of a group, or sending an email or written letter.

Services During Construction

Close supervision and documentation is required to ensure that quality construction is provided. Baxter & Woodman provides full service planning, site inspection, management startup, operations and maintenance of construction projects. The Baxter & Woodman Project Team has conducted comprehensive construction management services on various large 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 and construction management staff members.

Baxter & Woodman is available to provide construction administration throughout the construction contract period. We will work with City staff to structure our construction management services (CMS) to fit your needs. In that way, we can work jointly with the City to cover necessary facets of CMS without spending duplicate time (and cost). These services may include the following for each of the projects:

Combining several techniques in conveying project information to the public creates an optimal approach and gives the City the opportunity to reach more customers.

SERVICE HIGHLIGHTS:

- Construction Management
- Construction Inspection
- Scheduling
- Equipment Testing/Startup
- Operator Training
- Cost Estimating
- Review of payment estimates and change orders
- Review of Contractors RFI's and clarifications to the City Staff
- Final inspection and development of punchlists.
- Review of record drawings

- Conduct pre-construction conferences.
- Process detailed construction shop drawing submittals.
- Administer the City's contract with the Contractors and ensure all contract conditions are met.
- Interpret and clarify plans and specifications throughout construction.
- Monitor and ensure the Contractor(s) obtain all governmental and regulatory permits, inspections and approvals.
- Conduct site visits and direct construction meetings with the Contractor(s).
- Conduct monthly progress meetings.
- Review and approve monthly Applications for Payment.
- Field questions and phone calls from residents during construction.
- Review Construction Schedules.
- Review monthly record drawings.
- Observe initial operations and performance tests required by specifications.
- Respond to Contractor's request for information (RFI).
- Advise on negotiations with Contractors involving changes in extent or amount of contract or changes in design.
- Prepare and process change orders involving changes in approved design.
- Assist City regarding any construction claims.
- Certify construction completion to the various permitting agencies and the City.
- Provide substantial and final completion inspections. Prepare substantial completion punchlist. Advise City of final Acceptance.
- Transmit all project closeout documentation to the City.
- Prepare certificate of completion of construction.

Resident Project Representative (RPR)

Baxter & Woodman is prepared to provide complete construction inspection/resident engineering services to oversee all construction activities in the field as desired by the City.

The major field engineering responsibilities are summarized below:

- Serve as the Consultant's liaison with the contractor(s) and City staff.
- Conduct on-site observations of the work in progress to assist the City in determining if the work is proceeding in accordance with the Contract Documents and that completed work conforms to the Contract Documents, endeavoring to guard the City against defects and deficiencies in the work. Report in writing to the City whenever Consultant believes 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 the establishment of 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 City.
- Consider and evaluate the Contractor's suggestions for modifications during construction and report them to the City, in writing. Consultant shall make recommendations to the City for action.
- Witness all testing and/or procedures as required by the Contract Documents.
- Review as-built (Record Drawings) information from the contractor(s) to confirm conformance to the Contract Documents.
- Consultant shall provide to the City copies of the RPR's daily inspection reports and digital photographs.
- Attend Substantial Completion and Final Completion walk-throughs and verify that all punchlist items are completed by the contractor(s).

Construction Schedule Control

Reviewing and evaluating the construction schedule - including the baseline schedule, monthly schedule updates and revisions, and 2-week look ahead schedules - is integral to construction project(s) successful completion. Baxter & Woodman's Construction Manager examines schedules to identify variances between scheduled and probable completion dates of activities, as presented by the Contractor, so that we can analyze the effect on the overall project completion. **Scheduling will be particularly important on this project due to the complexity of the generator shop drawings, the long lead time on delivery of multiple generator sets, and the coordination effort required with FPL.**



In conjunction with schedule review, we provide recommendations to the Contractor relevant to the adequacy of their personnel performing construction tasks. We make observations regarding the availability of equipment and materials necessary to execute work efficiently and effectively. These elements ultimately determine a construction schedule's success or failure. The following steps will be implemented on these construction projects for the City:

- Baxter & Woodman's Construction Manager will request the contractor to provide a Baseline Critical Path Method (CPM) Construction Schedule as a formal Shop Drawing Submittal prior to Construction.

- The CPM Schedule provided by the Contractor will include the entire group of electronic files so that the schedule logic can be analyzed by Baxter & Woodman during the review process.
- The CPM Schedule must include at a minimum all work activities showing the baseline start column and baseline finish date column in calendar days. The Contractor's CPM Schedule shall include a column displaying the amount of float time available and a column displaying percentage to completion.
- The CPM Schedule will be reviewed and approved based on conformance to contract milestone dates, logical phasing and succession of the work, material procurement & delivery, achievable crew production rates, permitting certifications, and project closeout and completion.
- The Contractor must provide a Monthly Updated Schedule with each Pay Request. Two columns will be added to the monthly updated schedule for "Actual Start" and "Actual Finish" to track schedule progress. The Baseline Column will remain fixed.
- Baxter & Woodman's Construction Manager will monitor the Contractor's Schedule and notify the City in writing when the Contractor appears to be behind schedule. Baxter & Woodman will also request from the Contractor a Revised Schedule or a Schedule Recovery Plan if deemed necessary. The pay application will not be approved until a schedule recovery plan is submitted.

Our Construction Manager will review schedule compliance on a bi-monthly basis at project schedule control meetings and take appropriate action to prevent slippage with it first becomes apparent.

Construction Budget Control

The dollar value awarded to the Contractor based on their bid is considered the Construction Budget for a specific construction time-frame. The goal of the construction budget management is to control the project costs within the approved budget and deliver the expected project goals. Baxter & Woodman's definition of a successful construction project is: the project is constructed on schedule and budget, and once delivered, it meets the quality expectations of the Owner and regulatory agencies.

Examples of procedures that Baxter & Woodman's Construction Manager will administer to ensure that the Project stays within budget are as follows:



- Close daily review and measurement of field percent completion estimates by our resident inspector (RPR) are discussed with the Contractor's Superintendent on a weekly basis.
- Baxter & Woodman will provide a detailed review of the Contractor's Pay Application for incorrect quantities, mathematical errors, and percentage of pay item completion. When completion percentages exceed the project progression the City will be notified to discuss and determine what action is needed.
- Our Team will respond in a timely manner to any Contractor claims or request for additional compensation. Baxter & Woodman has significant experience resolving these types of claims and will not recommend approval of any such claim unless the claim is completely warranted and the procedures for filing such a claim listed in the contract documents are followed.
- We closely monitor the Contractor's schedule so that the project can be completed in the timeliest and cost effective manner.
- Lastly, we establish a respectful working relationship with the Contractor to effectively resolve potential issues during construction that meet the City's and/or Engineering Standards, but can also be done in a practical and timely manner and that doesn't create additional costs or time on the Contractor.



CITY STAFF INVOLVEMENT

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

The Project Team Organization Chart included in this proposal defines the lines of communication between team members and shows the flow of information to and from the City Staff. Our Team's philosophy is not to employ unnecessary layers of management but to require **direct, open interface between the City Staff and our project manager and staff members.**

PROJECT MANAGEMENT PHILOSOPHY

Development of a sound approach and methodology is of primary importance for completion of projects in a timely and cost effective manner. This is especially evident for small to mid-size projects with fast track schedules. This section briefly outlines the basic project management philosophy followed by Baxter & Woodman. The principals 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.

Project Management

The overall contract will be administered by our Project Director, Rebecca Travis, P.E., who has the direct authority to commit the resources as required for the successful completion of the project. The Project Director is responsible for maintaining full knowledge of all aspects of the project. This approach is designed to provide one person answerable to the City at all times. Our project management framework results in direct lines of communication and responsibility and allows for simple project coordination.

For this Emergency Generator replacement project, it is extremely beneficial to have the Project Director integrally involved with the project – from conceptual design through construction services. This will ensure continuity during the entire duration of the project. Our Project Director will be "hands-on" during the design and construction of projects under this contract with the City.

Professional Ethics

Baxter & Woodman's policy is to uphold the highest ethics for all actions and work products implemented by the company in conducting our daily business activities. The firm has developed an "Employee Manual" which details company policies and procedures, including the requirements for each employee to maintain proper ethics in performing their duties. The Manual specifically prohibits the disclosure of confidential information from our clients, and prohibits the acceptance of gifts and gratuities from any source which could, in any way, be construed as interfering with impartial and objective execution of one's duties. Each employee is required to sign an acknowledgement that they have read and agree to follow all policies of the company Employee Manual.

Our Firm's ethics policy will ensure there are no conflicts of interest or improper performance in completing engineering services under this contract.





BAXTER & WOODMAN
Consulting Engineers

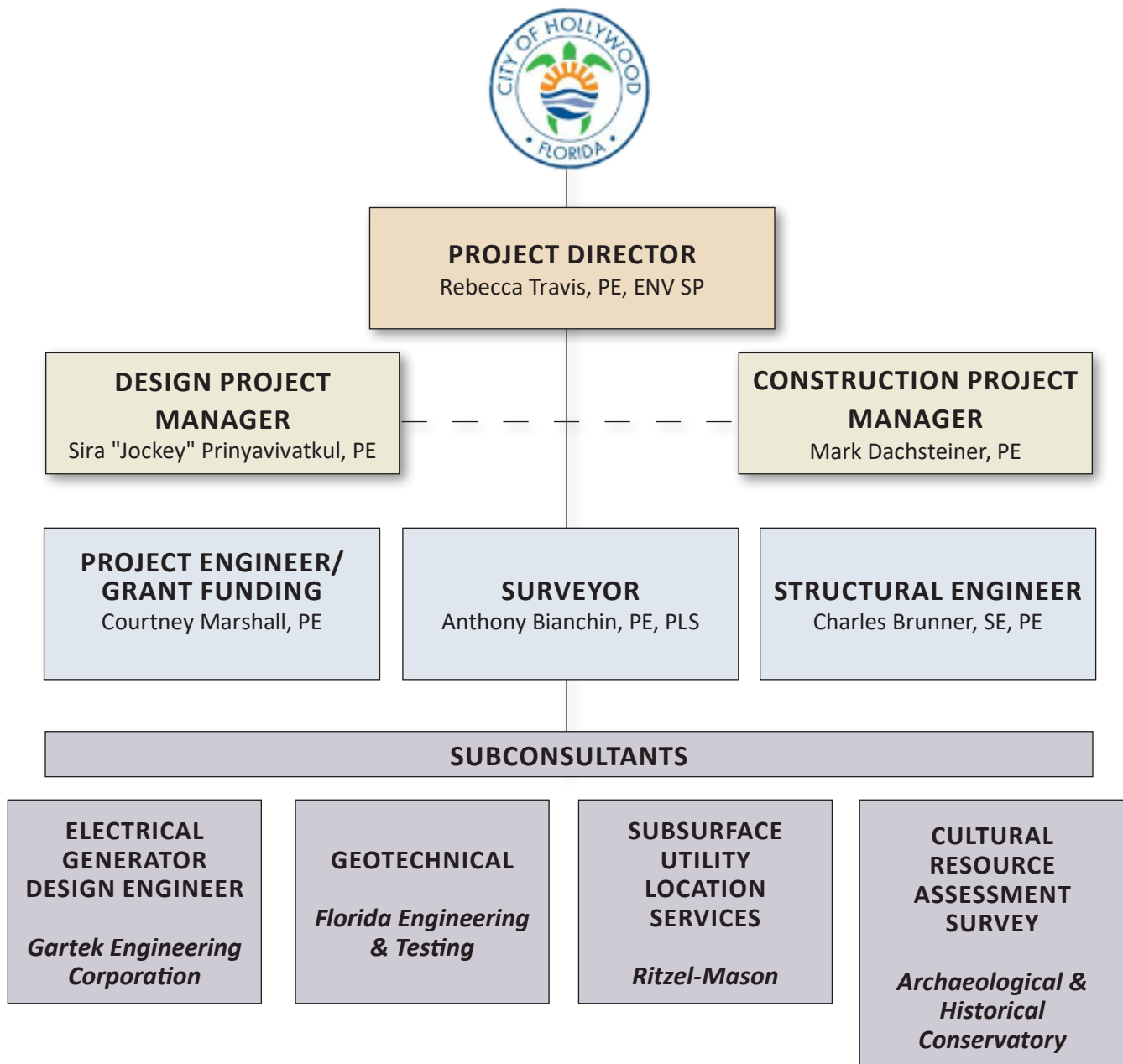


TAB D: Expertise of Designated Staff

EXPERTISE OF DESIGNATED STAFF

The City of Hollywood's assurance of a committed project team comes from our dedication to providing practical, innovative, value-based solutions and delivering successful projects. The structure of our organization is designed to provide the City with . . .

- Client involvement throughout all phases of your project.
- Open and continual communication between the client and the project team.
- Experienced project managers who has the authority to resolve all issues in an expeditious manner.
- A responsive network of technical and administrative support staff.
- Conformance to regulatory agency requirements.





Rebecca Travis, PE, ENV SP

Project Director – Executive Vice President, Florida Division Manager

Education

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

Years of Experience: 36

Joined Firm in 2003

Registrations

Licensed Professional Engineer, Florida

LEED Green Associate

Envision Sustainability Professional Credential

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

Associations

National Association of Women in Construction: Chapter Treasurer, 1994 & 2003; Chapter Board member 1994 thru 2006, 2011 to present

Society of Women Engineers: Chapter President, 1995

Water Environment Federation

American Water Works Association

American Public Works Association

Florida Stormwater Association

Certifications

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

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.

Representative Projects

**Palm Beach County Water Utilities Department (WUD), FL
Western Region Operations Center Facility Design**

Project Manager providing comprehensive site planning, design, permitting, and construction administration and inspection services for the new Western Region Operations Center (WROC) in Belle Glade, FL. Engineering and architectural design, permitting, bidding, and construction services for the buildings and overall site improvements were provided and the project has been constructed. The design and construction followed the Florida Green Building Coalition Commercial Building Standard in an effort to address sustainability in design.

Delray Beach, FL

Osceola Park and SW 4th Street Neighborhood Projects

Senior Project Engineer for the infrastructure improvements and provided support for public outreach efforts for the two large local neighborhood projects that incorporate over 1,300 parcels. Also supported the City's installation of multiple traffic calming "pilot" projects to measure results, seek resident input, and develop a local toolbox for future implementation.

Palm Beach County, FL

East Central Regional Water Reclamation Facility

Project Manager for the site planning, design, permitting, and bidding document preparation for a reclaimed water storage and transmission pump station. The 3,750 sq. ft. building includes office and warehouse space.

West Palm Beach, FL

Hydraulic Study for Lift Station Improvements

Project Manager to develop wastewater hydraulic model and master plan for WPB Northern Region Service Area served by L.S. #21, #23, and #26.

**Palm Beach County Water Utilities Department (WUD), FL
WTP 8 SW/Permitting; Rezoning of PBCWUD Facilities**

Project Manager for providing engineering services for stormwater design and various permits for WTP modifications. Project Manager for providing administrative planning and engineering assistance to WUD to rezone WTP #3, WTP #9, and the Southern Region Water Reclamation Facility to the PO zoning category, and for site plan amendment services for WTP #8.

West Palm Beach, FL

Water Repump Facility - Phase II

Project Manager to provide engineering design for new water repump facility.

www.baxterwoodman.com

City of Delray Beach, FL
Water Meter AMI System

Project Manager for the automatic water meter reading system evaluation, development of a water meter strategic plan to provide guidance in the replacement of over 20,000 existing water meters, and in the installation of new meter reading technology.

West Palm Beach, FL
Westward Pump Station - Phase I

Project Manager for the easement acquisition and civil design services for the grading, paving, and yard piping for the City's water booster and re-pump station. The project improved system pressure in the northwest portions of the City's potable water service area. Rebecca has been involved in the coordination with the roadway design engineer in order to address impacts of the roadway realignment on existing City utility mains, and the site work for the booster pump station. Also provided bidding and construction administration assistance.

Boca Raton, FL
Woodfield Reclaimed Water Pipeline Planning Document

Project Manager for preparing a planning document that identified pipe routing options, easement issues, and detailed corridor analysis for new reclaimed water pipeline to serve Woodfield Golf Course.

Delray Beach, FL
Congress Avenue Corridor Utilities Master Plan

Project Manager for development of sub-area master plan for water, wastewater, and reclaimed water improvements needed to serve Congress Avenue redevelopment area.

Lake Worth, FL
\$40 Million Neighborhood Road Program

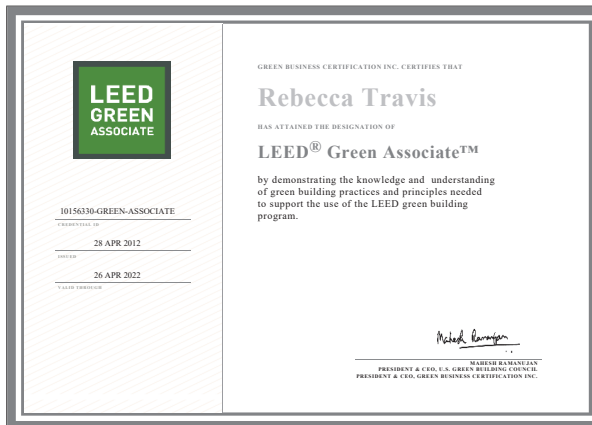
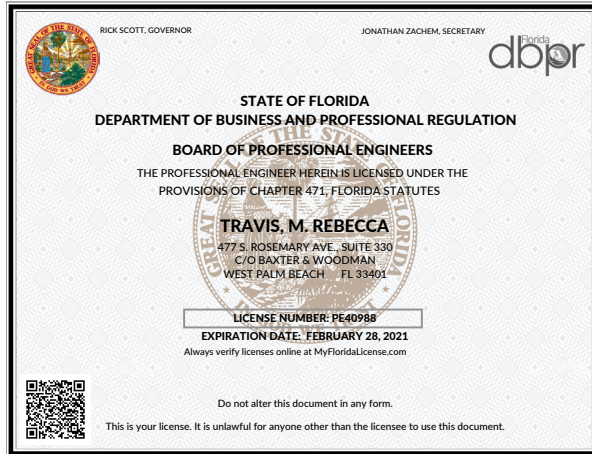
Project Manager for the design, permitting, and construction administration services for various utility and roadway mill and overlay or reconstruction projects as identified and prioritized for the northwestern quadrant of the City. The scope of work for this four-year neighborhood roadway improvement program included water and sewer replacement, sidewalk and ADA compliance, signing, marking, traffic calming, and public involvement during design and construction.

West Palm Beach, FL
Water Main and Force Main Aerial Crossings

Project Manager for the preparation of design plans for replacement of existing water main and force main aerial crossings throughout the City. Project included inspection of the aerial crossing upon construction completion.

Boca Raton, FL
Reclaimed Water Main Extension

Project Engineer for the design of new reclaimed water main to serve the City's western service area. Project included 12,800 LF of 20-inch reclaimed water main and three metering stations with flow control valve, telemetry, and controls.



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

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

****LOCATED AT****

477 S ROSEMARY AVE STE 330
WEST PALM BEACH, FL 33401-
5798

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #/DATE PAID	AMT PAID	BILL #
54-0064 ENGINEER	TRAVIS M REBECCA	40988	U19 586081 - 07/17/19	\$33.00	B40187771

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MATHEWS CONSULTING A BAXTER & WOODMAN COMPANY
BAXTER AND WOODMAN INC
477 S ROSEMARY AVE STE 330
WEST PALM BEACH, FL 33401-5798

**STATE OF FLORIDA
PALM BEACH COUNTY
2019/2020 LOCAL BUSINESS TAX RECEIPT**

**LBTR Number: 201013065
EXPIRES: SEPTEMBER 30, 2020**

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.



Sira "Jockey" Prinyavivatkul, PE

Design Project Manager - Florida Water/Wastewater Department Manager

Education

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

Years of Experience: 20

Joined Firm in 2019

Registrations

Licensed Professional Engineer:
Florida

Associations

American Society of Civil
Engineers (ASCE)

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

Palm Beach County Water Utilities, FL

Improvements to Master Repump Station 9-North

Project Engineer for the data collection, engineering design, permitting, and bidding services for the upgrades and improvements at Master Repump Station 9-North, located at 1911 O S. State Road 7, Boca Raton, in District 5 of the County's service area. The purpose was to upgrade the Master Repump Station to provide more reliability and improved operations.

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.

West Palm Beach, FL

Lift Station 100 Improvements

Project Engineer for the Design Services to prepare Contract Documents (drawings and technical specifications) for the detailed design of an inline booster pump station to replace the existing submersible type lift station at the LS-100 site. The detailed design includes the necessary site-civil, mechanical, electrical and instrumentation and control (I&C) improvements required to accommodate a shop fabricated, skid mounted in-line booster pump station at the site.

Palm Beach County Water Utilities, FL

Improvements to Lift Stations 393, 1023, and 8168 (Abidjan Estates)

Project Manager for the data collection, engineering design, permitting, and bidding services for the upgrades and improvements at three separate lift stations within Palm Beach County's service area. Lift Station 393 required a design of a completely new lift station at a new location due to the existing lift station being within the right of way of Drexel Road. Sewer flows were redirected from the old lift station location to the new lift station location and the force main was extended. Lift Station 1023 was an existing lift station located in close proximity to two residential properties. The lift station was a can type station, reaching the end of its useful service life. The existing lift station was re-utilized and converted into a submersible type lift station, and impacts to adjacent residential properties were

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reduced. Lift Station 8168 was a rehabilitation project where the pumps, piping, valves, and appurtenances were replaced. Existing and future pumping capacities were evaluated and appropriate pumps were specified.

Florida Keys Aqueduct Authority

Ramrod Key Pump Station – Fuel System Improvements

Project Manager the improvements to the Ramrod Key Pump Station fuel system. The work included the demolition of the existing two diesel bulk storage tanks and cast-in-place concrete containment areas and installation of an owner supplied double walled, 10,000 gallon diesel bulk storage tank. Installation of a day tank to feed the emergency diesel driven pump and replacement of an existing day tank that serves the emergency diesel generator. All fuel lines between the new diesel bulk storage tank and day tanks were replaced with new stainless steel piping.

Loxahatchee River Environmental Control District

Improvements to Master Lift Station No. 1

Project Manager for improvements to Master Lift Station Station No. 1. Project components include Replacement of the existing dry-pit, non-submersible type pumps with three (3) 110 HP pumps, replacement of the existing diesel driven standby generator unit with a new 365 kW generator, provision of MOV's with IP68 rated enclosures suitable for immersion service and replacement of the existing pump suction and discharge piping to accommodate the new pumps and discharge valve locations.

Lantana, FL

Water Treatment Plant High Service Pump Improvements

Project Manager for the 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.

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 B&W 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.

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.

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Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

PRINYAVIVATKUL, SIRA J.

2078 FOXTAIL VIEW COURT
WEST PALM BEACH FL 33411

LICENSE NUMBER: PE64655

EXPIRATION DATE: FEBRUARY 28, 2021

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Mark L. Dachsteiner, PE
Construction Project Manager

Education

B.S., Mining Engineering
Southern Illinois University, 1987

Joined Firm in 1996

Years of Experience: 33

Registrations

Licensed Professional Engineer:
Florida

Licensed Professional Engineer:
Illinois

FDEP-Storm water Erosion &
Sedimentation Control Qualified
Storm water Management
Inspector (#38853)

Advanced MOT Training -pending

FDOT CTQP Active

Certifications

Concrete Field Inspector
HMA Level 1 & 2
Final Estimates Levels 1 & 2
QC Manager

IDOT Certifications

Construction Documentation (Cert
No. 17-12691)
PCC Pavement
Bituminous Pavement
Survey

Associations

American Society of Civil
Engineers FL& Broward Chapter

Engineers Without Borders –
Florida Chapter

South Florida Branch- American
Public Works Association

Florida Engineering Society

Mark has over 33 years of survey, transportation and infrastructure design, construction engineering, and project management experience. He is involved in all phases of project development, conducting topographical surveys, design of roadways, sewers, water mains, pump stations, and providing construction engineering services for these projects. Since joining our firm, Mark has concentrated his efforts on the administration of governmental agencies and municipal engineering projects. He is very knowledgeable about the requirements of various funding programs for project inspection, documentation, and procedures.

Mark is the Region Manager for our Fort Lauderdale office, and he also serves as a client liaison for several agencies and communities, including Town of Southwest Ranches, City of Lauderhill, Broward County, Monroe County, and the City of Key West.

Representative Projects

LaGrange, IL

911 Fire and Police Station Emergency Generator Improvements

Construction Manager for a new emergency generator system (including engine generator, automatic transfer switches, and service entrance equipment) housed within a walk-in, sound-attenuated enclosure. Contract documents will be created for the new generator pad, modifications to the existing electrical system, removal of the current generator, and installation of the generator system.

Florida Keys Aqueduct Authority

Key Haven Lift Station

Construction inspection for the ongoing installation of a sewer collection system and potable water mains for the Key Haven service area. The new sewer is being constructed so that the existing sewer collection system is staying in operation until replaced. Construction is sequenced to incorporate sewer flow bypassing and connections to the new system with zero disruption in service.

Carol Stream, IL

Evergreen Drive Sanitary Lift Station

Construction Manager for replacement of an existing wet well/dry well prefabricated steel station with a rated capacity of 180 gpm with a duplex concrete submersible station with a rated capacity of 220 gpm at 37-foot of TDH, 5-hp pump motors. The design of the new pumping system was based on sizing of the pumping units, electrical power and control system as needed to maintain a minimum and self-cleansing velocity in the force main pipe.

Carol Stream, IL

Tubeway Drive Stormwater Lift Station and Emergency Generator Replacement

Construction Manager for the removal and replacement of a duplex prefabricated steel submersible stormwater pumping station with a duplex precast concrete submersible pumping station with a capacity of 500-gallon per minute, complete in place including approximately 18 lineal feet of 10-inch diameter force main, a 35 KW standby generator with enclosure, surface restoration, and other miscellaneous items of work.

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Continuing Education

Doug Cartland, Inc.

"Creating Excellence in Communication and Customer Relations" training, 2016

Doug Cartland, Inc.

"Problem/Communication Resolution" training, 2017

Glen Ellyn, IL

Saddlewood Lift Station Abandonment

Construction Manager for services to extend a gravity sewer approximately 450 feet in order to abandon the existing Saddlewood Drive Lift Station.

Monroe County, FL

Koehn and Big Pine Shores Subdivision Roadway and Drainage Improvements

Client Liaison/Project Manager for the Design and Survey Services for the development of Plans and Specifications for the reconstruction/resurfacing of 19,000 feet of roadways and drainage improvements. Coordination and compliance with US Fish and Wildlife and SFWMD for permitting and FDOT District 6 during the design work prior to bidding.

Itasca, IL

Rohlwing Road Sanitary Pumping Station/Force Main Replacement

Construction Manager for the replacement of an existing CAN-TEX prefabricated steel submersible station, duplex pumping arrangement, with a rated capacity of 320 gpm. Station was replaced with a duplex concrete submersible station with a rated capacity of 320 gpm. Included pumps rated at 320 gpm at 61-feet of TDH, 15 hp motors. Station was designed with a possible expansion in mind (to accommodate an unincorporated area of DuPage County). The project also included installation of approximately 125 lineal feet of 24-inch diameter steel casing pipe auger bored into place with 6-inch diameter ductile iron force main carrier pipe, 86 lineal feet of 6-inch diameter ductile iron force main installed by combination open cut and boring method, two connections to an existing 6-inch diameter force main, and bypass pumping.

Lombard, IL

Fairview Lift Station Improvements

Construction Manager for rehabilitation of the Village's Fairview Lift Station. Construction included installation of an additional wet well structure, rehabilitation of the existing wet well structure, replacement of existing submersible sewage pumps, a new pump control panel, new natural gas standby generator, replacement of the existing flow meter, replacing the air release valve off site, and various site improvements (such as paving and lighting).

Rolling Meadows/Palatine, IL

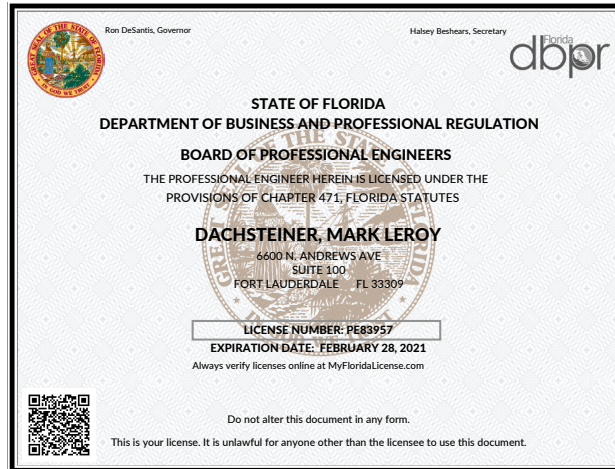
Water System Interconnection Station

Construction Manager for water system interconnection including approximately 540 lineal feet of 12-inch ductile iron water main, five pressure connections to existing water mains, a prefabricated pumping station and control valve vault, complete surface restoration, and other miscellaneous items of work.

Wood Dale, IL

Wood Dale Road Pumping Station Modifications

Construction Manager for modifications to an existing prefabricated below grade booster pump station, including replacement of the existing pump and motor, addition of a variable frequency drive, surge anticipator valve, piping, and electrical modifications.





Courtney K. Marshall, PE

Project Engineer / Grant Funding Coordinator

Education

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

Years of Experience: 6

Joined Firm in 2014

Registrations

Licensed Professional Engineer,
Florida

Certifications

Certificate of Training/Attendance:
33rd Annual Governor's Hurricane
Conference

Certificate of Achievement:
Writing A Competitive FDOT SRTS
Application

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

SFWMD Certificate:
Stormwater Management

Courtney has over five years of engineering design, permitting, and bidding services for roadway and infrastructure improvements, stormwater management systems, potable water systems, reclaimed water systems and wastewater collection and transmission systems.

Representative Projects

Pompano Beach, FL

Esquire Lake Stormwater Improvements

Project Engineer for design, permitting, bidding, and construction 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 Environmental License, Broward County Traffic Permit, and City of Pompano Beach Building Department. Grant reporting assistance was provided to the City during construction for SRF funding.

Lake Worth, FL

2nd Avenue South Roadway Improvements

Project Engineer for the engineering design, bidding, and construction of the 2nd Avenue South (Dixie Highway to Federal Highway) Roadway Improvements Project. The project is located within the City's Community Development Block Grant (CDBG) target area. CDBG funding was provided for the project through Palm Beach Department of Economic Sustainability.

Delray Beach, FL

Reclaimed Water Expansion Area 12C

Project Engineer for the design, permitting, bidding, and construction engineering services for the infrastructure improvements on the Barrier Island. Specific project components consisted of full roadway reconstruction (City roadways), roadway mill and overlay (SR A1A; FDOT roadway), potable water main improvements, sanitary sewer improvements, drainage system improvements, and installation of new reclaimed water main system via open-cut and horizontal directional drill methods. FDEP and SFWMD grants were obtained for the reclaimed water main construction funding and grant administration assistance was provided to the City during construction.

Palm Beach County Water Utilities Department, FL

Western Region Operations Center

Project Engineer for coordination and preparation of the required design and construction information for Florida Green Building Coalition Commercial Building Standard application.

Lake Park and Seacoast Utility Authority, FL

Lake Shore Drive Infrastructure Improvements

Project Engineer for engineering design, public outreach, permitting, bidding, and construction engineering services for roadway, drainage, potable water main, and sanitary sewer improvements, ADA compliant pathway, street lighting and landscaping on Lake Shore Drive starting from the entrance of the Lake Park Marina north 3,220 feet to Castlewood Drive. The Preliminary Design Report included

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stormwater modeling analysis to compare drainage alternatives and to size drainage facilities for the appropriate level of protection. The proposed improvements included a piped drainage system to a stormwater pump station that pumps into a bio-swale for water quality prior to ultimately discharging to the Lake Worth Lagoon. Project is currently in progress and submitted for Hurricane Mitigation Grant Funding (HMGP). Project includes obtaining an Environmental Resource Permit from FDEP and a Nationwide Permit from USACOE.

Delray Beach, FL

SW 4th Street, SW 6th Street, SW 7th Avenue, and SW 3rd Court Neighborhood Improvements

Project Engineer for the engineering preliminary design report, final design, public outreach, permitting, and bidding services for 8,720 LF of reclaimed water main, 740 LF of potable water main, 5,950 LF of sanitary sewer improvements, 2,440 LF of drainage improvements, 7,750 LF of roadway reconstruction, 3,300 LF of roadway mill and overlay, 4,300 LF of permeable alleyway paving, landscaping, lighting, sidewalk, and signing and marking improvements in the SW Neighborhood. Project included coordination with utility companies for relocation of above ground facilities in conflict with the proposed improvements.

Delray Beach, FL

Alleyway Enhancement Project

Project Engineer the final design, public outreach, permitting, and bidding services for permeable alleyway improvements from SE 3rd Street to SE 10th Street between SE 4th Avenue and S. Federal Highway in the Osceola Park Neighborhood. Project included coordination with utility companies for relocation of above ground facilities in conflict with the proposed improvements. Project was funded by FDOT's Local Agency Program (LAP), and FDOT LAP Program guidelines were followed during the design and submittal process.

Lake Worth, FL

Park of Commerce Phase 1A Infrastructure Improvements

Project Engineer providing Owner's Representative Assistance to the City for the infrastructure improvements project. The project was partially funded by Economic Development Administration grant funding, which was awarded through a combined effort from the City and Palm Beach County.

Pompano Beach, FL

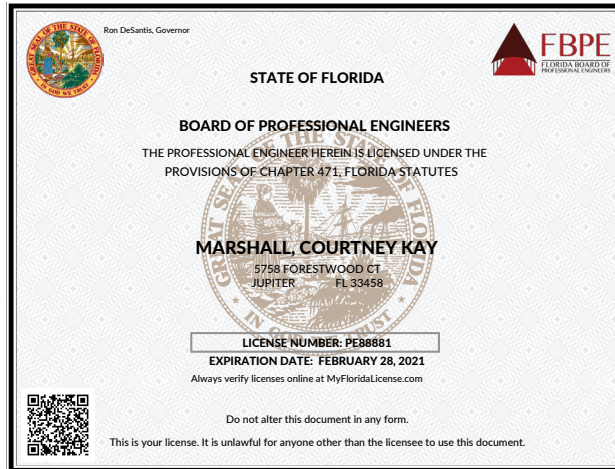
NE Reuse Expansion Phase II

Project Engineer for the engineering design, permitting, and construction engineering services for approximately 7,125 LF of 4-inch to 8-inch reclaimed water main in a residential neighborhood in the City of Lighthouse Point (within City of Pompano Beach's reuse service area). FDEP and SFWMD grants were obtained for the reclaimed water main construction funding and grant administration assistance was provided to the City during construction.

Highland Beach, FL

Replacement of Water Distribution Lines - Phase 1

Project Engineer for the design, permitting, bidding, and construction for the water main replacement project that included approximately 6,700 linear feet of 8-inch water main, new fire hydrants, new water services and meter boxes, and roadway restoration. Grant reporting assistance was provided to the City during construction for SRF funding.





Charles A. Brunner, PE, SE
Structural Engineer – Vice President

Education

B.S., Civil Engineering
Purdue University, 1983

Joined Firm in 1987

Years of Experience: 37

Registrations

Licensed Structural Engineer:
Illinois

Licensed Professional Engineer:
Illinois, Florida, Wisconsin

Certifications

NBIS Certified Program
Manager, National Highway
Institute

Associations

International Code of Council
(ICC)

American Society of Engineers
(ASCE)

Structural Engineers Institute
(SEI)

American Concrete Institute
(ACI)

American Institute of Steel
Construction (AISC)

Chuck is called upon to review the structural design of all projects, including well houses, pumping stations, water storage facilities, water and wastewater treatment facilities, bridges, retaining walls, and drainage structures. He is also an IDOT-approved National Bridge Inspection Program Manager and routinely prepares bridge inspection reports for our municipal clients.

Representative Projects

Park Forest, IL

IL Street Pumping Station Improvements

Structural Project Manager for improvements at the IL Street Pumping Station to convert to a submersible pump station including two, 5 HP submersible pumps with a pumping capacity of 450 GPM each, complete in place including a new valve vault, piping, electrical controls, approximately 40 lineal feet of six-inch ductile iron force main, a permanent 60-kW generator, site grading, new concrete generator pad, and site restoration.

Downers Grove Sanitary District, IL

Hobson Road Pumping Station Improvements

Structural Project Manager for the replacement of the rotational assemblies for three existing pumps, including replacement of the existing 200 horsepower motors with 250 horsepower motors to increase pumping capacity, addition of a similar rotational assembly and motor into an existing pump volute, variable frequency drives for all four pump assemblies, a building to house the variable frequency drives and other electrical controls, removal of existing "FloMatcher" equipment, access drive improvements, and other miscellaneous items of work. Baxter & Woodman also assisted the Downers Grove Sanitary District with obtaining grant funding for the project.

Glenview, IL

Harms Road Stormwater Relief & Pump Station

Structural Project Manager for this project involving two new storm water pump stations designed for flood control within the Village of Glenview. Station 1 has a capacity of 50 MGD with two influent relief sewers, one 84-inch diameter and another 54-inch diameter. The new relief sewers are located in a busy residential/commercial area, requiring significant sewer alignment effort as well as utility and permitting coordination (MWRD, Cook County, IDOT). The second pump station has a capacity of 32 MGD, with a 48-inch diameter influent relief sewer, and is located within a Village Park, adjacent to a Village Park District facility, requiring substantial coordination with the Park District.

Northbrook, IL

Wescott Park Storage Facility Study & Design

Structural Project Manager for a 23-ac-ft underground stormwater storage facility in Wescott Park. The project includes three blocks of proposed 42-inch storm sewer and additional inlet capacity to convey flow to the storage vault, roadway reconstruction, restoration of the park, and installation of an irrigation system. Additionally, a rainwater harvesting system was added to the project that will supply water to the irrigation system.

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Downers Grove Sanitary District, IL

Venard Road Pumping Station Improvements

Structural Project Manager for replacement of an existing wet well/dry well duplex arrangement with capacity of 900 GPM at 102 TDH, 6-inch pumps, 40 HP motors, 1750 rpm, with a single pump in operation. The new submersible triplex pumping arrangement included 2,000 GPM at TDH 82, 6-inch pumps, 90 HP motors, 1775 rpm, with single pump in operation. Two pumps in operation provide a total of 3,200 GPM at 100 TDH, the third pump is redundant. The project was funded by ARRA of 2009.

Broadview-Westchester Joint Water Agency, IL

10th Avenue Pumping Station Replacement

Structural Project Manager for the design of a 10.2 MGD firm capacity brick and block style pumping station used to deliver water to Broadview and Westchester. The new station consists of pumps and piping required to serve the Hospital Campus. The new building includes a pump bay, diesel engine generator, electrical room, mechanical room, lavatory, lab/office, and chlorine room. The project also included new site piping, the demolition of the existing pump station, and site restoration.

Hazel Crest, IL

Pumping Stations No. 1 and No. 2 Rehabilitation

Structural Project Manager for improvements to two pumping stations, both of which needed upgrades to replace aging pumps and improve both pumping and electrical efficiency. Mechanical design included replacement of three pumps and motors at each booster station and piping and valve modifications. Electrical design included addition of variable speed drives to improve the booster stations' ability to modulate output based on system demand.

Itasca, IL

Happy Acres Stormwater Pumping Station and Detention Basin

Structural Project Manager for the excavation of an existing stormwater detention basin, design and construction of a new duplex, submersible pump stormwater pumping station and valve vault, 210 lineal feet of 12-inch PVC pipe force main, 110 lineal feet of 24-inch ductile iron influent sewer, modification and extension of a 48-inch RCP influent storm sewer, a pond aeration system, finish grading, and planting of basin side slopes and shoreline.

Lombard, IL

Various Lift Station Improvements

Structural QA/QC Reviewer for the design of improvements to the Vista, Prairie-Lalonde, Olde Towne, Cambria, and Elizabeth-Morris lift stations.

Woodstock, IL

Lake Avenue Booster Station

Structural QA/QC for Lake Avenue Booster Station.

Beecher, IL

Wastewater Treatment Plant Improvements

Lead Structural Engineer for design including screening and final effluent metering structure, aeration tanks, digested sludge storage tank, secondary clarifier tanks and control building.

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Beecher, IL

2017 Wastewater Treatment Plant Improvements

Structural Engineer of Record for design including oxidation ditch, secondary clarifier flow division chamber, secondary clarifier tank, chemical feed building, ultraviolet disinfection structure, return activated sludge pumping station, waste activated sludge pumping station, aerobic digester tanks, sludge storage building and remodeling of existing facilities.

Bloomington, IL

Wastewater Treatment Plant Improvements

Lead Structural Engineer for design including dry weather and excess flow influent pumping stations, excess flow clarifiers and sand filter building.

Cary, IL

Wastewater Treatment Plant Improvements Phases 1 and 2

Lead Structural Engineer for design including sludge drying beds, final clarifier tank, return sludge pumping station, primary digester tank, primary digester control building, grit building, grit tank and primary clarifier tanks.

Carol Stream, IL

Wastewater Reclamation Center Improvements

Lead Structural Engineer for design including sand filter building, west system pumping station, grit and screen building, blower building, aeration tanks, second stage pump station, mixed liquor flow division chamber and west system flow metering station, secondary clarifier tanks, sludge metering station, chlorination/dechlorination tanks and administration building and remodeling of existing facilities.

Crest Hill, IL

West Sewage Treatment Plant Improvements

Structural Engineer of Record for design including screen building, raw sewage pumping station, aeration tanks flow division chamber, final clarifier flow division chamber, final clarifier tanks, excess flow clarifiers flow division chamber, blower building, chemical feed building, return activated sludge pumping station, return activated sludge flow division chamber, thickener building, aerobic digester tanks, sludge storage tank, sludge loading station, electrical building and remodeling of existing facilities.

Crystal Lake, IL

Wastewater Treatment Plant No. 2 Improvements

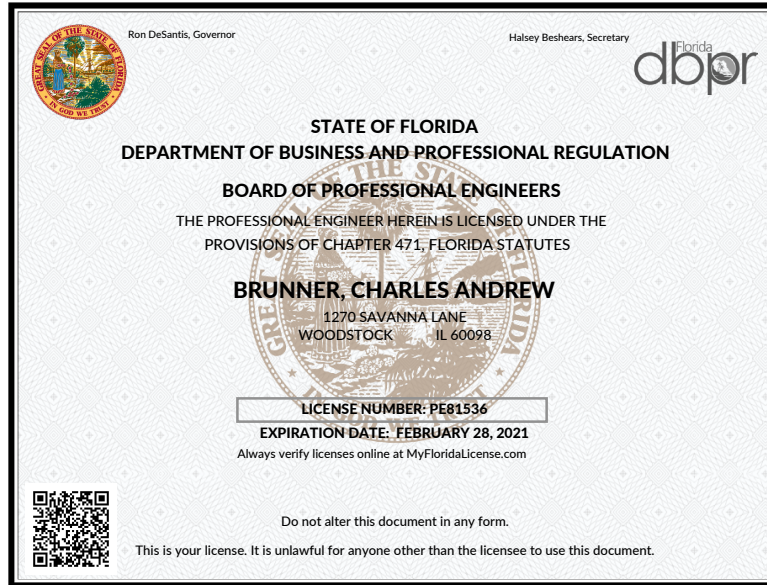
Lead Structural Engineer for design including raw sewage pumping station, screen and grit building, primary clarifier tanks, flow division chambers, aeration tanks, secondary clarifier tank, sand filter building, ultraviolet disinfection structure, final effluent flow meter structure, anaerobic digester tank, digester control building and equipment building.

Crystal Lake, IL

Wastewater Treatment Plant No. 3 Additions

Lead Structural Engineer for design including grit washer building, primary clarifier tanks, primary effluent pumping station building, bio-packed towers, solids contact tank, secondary clarifier tanks, sand filter building, sludge drying beds and remodeling of existing facilities.

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ANNE M. GANNON
CONSTITUTIONAL TAX COLLECTOR
Serving Palm Beach County

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P.O. Box 3353, West Palm Beach, FL 33402-3353
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****LOCATED AT****

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WEST PALM BEACH, FL 33401-5798

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #/DATE PAID	AMT PAID	BILL #
54-0064 ENGINEER	BRUNNER CHARLES A	81536	U19.661279 - 08/22/19	\$33.00	B40166865

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B2 - 430

MATHEWS CONSULTING A BAXTER & WOODMAN COMPANY
BAXTER AND WOODMAN INC
477 S ROSEMARY AVE STE 330
WEST PALM BEACH, FL 33401-5798

**STATE OF FLORIDA
PALM BEACH COUNTY
2019/2020 LOCAL BUSINESS TAX RECEIPT**

**LBTR Number: 2016094173
EXPIRES: SEPTEMBER 30, 2020**

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.



Anthony E. Bianchin, PE, PLS

Professional Land Surveyor

Education

B.S., Civil Engineering
Illinois Institute of Technology,
1993

Joined Firm in 2006

Years of Experience: 27

Registrations

Licensed Professional Land
Surveyor: Illinois, Wisconsin

Licensed Professional Surveyor
and Mapper: Florida

Licensed Professional Engineer:
Illinois

IDOT Certifications

IDOT Bureau of Construction
Task Training/Certifications:
P.C.C. Paving
HMA Density Testing
HMA

Certifications

Nuclear Density Gauge, Troxler
Laboratories
Concrete Field Testing
Technician, ACI

Work History

2004-2006
Project Engineer and Land
Surveyor, Barrington
Engineering Consultants, Inc.

1993-2004
Project Engineer and Survey
Party Chief, Peter F. Olesen &
Associates, Inc.

Tony has 27 years of design and land surveying experience. His expertise includes the design of roadway reconstruction, roadway realignment, storm sewer, sanitary sewer, and water main projects. He is also proficient in the preparation of right-of-way acquisition, plat, and legal description documents. Tony teaches several surveying courses at the College of Lake County.

Representative Projects

**Loxahatchee River Environmental Control District, FL
Whispering Trails Gravity Sewer System**

Professional Land Surveyor for the topographic and legal survey for the gravity sewer system and neighborhood roadway.

**Loxahatchee River Environmental Control District, FL
Master Lift Station No. 1**

Professional Land Surveyor for the topographic and legal survey for the master lift station No. 1 rehabilitation.

**Lake Worth, FL
2nd Avenue South Roadway Improvements**

Professional Land Surveyor for the topographic and legal survey for the roadway improvements.

**Town of Lauderdale by the Sea, FL
El Mar Sidewalk & Roadway Improvements**

Professional Land Surveyor for the topographic and legal survey for the sidewalk and roadway improvements.

**Monroe County, FL
Koehn & Big Pines Shores Roadway and Drainage Improvements**

Professional Land Surveyor for the topographic and legal survey for the roadway and drainage improvements.

**City of Oakland Park, FL
Boundary Survey for Carter Woodson Park**

Professional Land Surveyor for the topographic and legal survey for the Carter Woodson Park.

**Broward County, FL
Boundary and Topographic Survey for Parcel H1-A & H1-B at Sawgrass Mills Mall, Sunrise FL**

Professional Land Surveyor for the topographic and legal survey for Parcels in the Sawgrass Mills Mall in Sunrise, FL.

**Lombard, IL
IL Route 53 Stormwater Pumping Station**

Performed boundary investigations and prepared easement plats.

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Lombard, IL
Craig Place and Willow Street Storm Sewer, and Westmore-Meyers/Roosevelt Sidewalk Design
Performed boundary investigations and prepared easement plats.

Streamwood, IL
Topographic Surveying for 2009-2010 Road Program.

Glenview, IL
Harms Road Relief Sewer & Pumping Station
Prepared a boundary survey and layout of sidewalk grades.

Joliet, IL
West Park Front Pumping Station and Thorne Creek Streambank Stabilization
Preparation of plat of dedication and legal description.

Oak Forest, IL
Boundary investigation and right-of-way acquisition for improvements to the City's main pumping station.

Hillcrest, IL
Preparation of easement plats and survey documents for wastewater collection system expansion.

Elkhorn, WI
Legal Surveys: Wells 9 through 11
Perform the survey work and create the survey documents necessary for the City to acquire property for Wells 9, 10, and 11, and the associated utility systems including water main, sanitary sewer, and electric transmission.

Plainfield, IL
Lockport Street Bridge
Surveyor for the preparation of easement documents.

Prairie Grove, IL
Justen Road Bridge
Surveyor for right-of-way analysis, researched titles, prepared Plats of Highway, and legal documents.

Romeoville, IL
Preparing boundary investigation for the Village's wastewater treatment facility property.

Sauk Village, IL
Logisticcenter Drive Improvements Phase I
Easement and right-of-way acquisition, and preparation of plats for the report.



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

February 14, 2019

ANTHONY BIANCHIN
8678 RIDGEFIELD RD
CRYSTAL LAKE, IL 60012-2714

SUBJECT: Professional Surveyor and Mapper License # LS7108

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

The license appears below and is valid through February 28, 2021.

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

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

Detach Here



Florida Department of Agriculture
and Consumer Services
Board of Professional Surveyors
and Mappers

LS7108

Professional Surveyor and Mapper
ANTHONY BIANCHIN

IS LICENSED under the provisions of Ch. 472 FS
Expiration date: February 28, 2021

Detach Here



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

License No.: **LS7108**
Expiration Date February 28, 2021

Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

ANTHONY BIANCHIN
8678 RIDGEFIELD RD
CRYSTAL LAKE, IL 60012-2714

Nicole Fried

NICOLE "NIKKI" FRIED
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.

GARTEK ENGINEERING CORP.

Mechanical, Electrical, Plumbing and Fire Protection Design & Construction Administration Services

OFFICE LOCATIONS
Miami * Broward * Palm Beach



Gartek Engineering Corporation designs mechanical, electrical, plumbing, and fire protection engineering since 1980. We are certified as an SBE (Small Business Enterprise), MWBE (Minority, Women / Disabled Veterans Business Enterprise and DBE (Disadvantaged Business Entity) firm. Our clients in the corporate, municipal, governmental, private, and utility sectors receive quality design services provided by our multidisciplinary team. Our staff has over thirty years of combined experience and is keenly aware of the latest engineering developments and code requirements. We are licensed in Florida, Georgia and Louisiana.

FIRM INFORMATION

- State of Incorporation: Gartek Engineering, Corporation was incorporated in Florida under this name in 1980.
- Ownership Structure: Corporation
- Corporate Headquarter: 7210 S.W. 39th Terrace, Miami, FL 33155
Phone 305-266-8997 / Fax 305-264-9496
- Local Offices:
2700 N 29th Ave, Suite 303
Hollywood, FL 33020
Phone 954 - 404-8100
6801 Lake Worth Road, Suite 117
Greenacres, FL 33467
Phone 561-249-3431
- Primary Representative:
Paula Riveros
priveros@gartek.cc

7210 SW 39 Terrace, Miami, Florida 33155 * 2700 N. 29 Ave. Suite 303, Hollywood, FL 33020 * 6801 Lake Worth Rd, Suite 117, Greenacres, FL 3367
Tel 305-266-8997/Fax 305-264-9496/www.gartek-engineering.com



- Owners/Partners, Officers:
Robert L. Betancourt, PE, LEED AP Owner/President/Principal/Engineer of Record

Mel F. Garcia, PE, LEED AP
Owner/ Vice-President/Principal/ Engineering of Record

OUR CAPABILITIES

Our decades of experience minimize the potential learning curve. We are ready to start at the gate and understand the significance key concepts such as the importance of verification of existing conditions and performing due diligence in the early stages of a task to potentially identify and resolve problems that may arise due to current conditions of the area. We also are sensitive to working in occupied spaces and all steps will be taken to ensure minimal interruption and safety.

Our range of engineering design services & solutions include:

Mechanical Engineering

- HVAC
- Plumbing
- Fire Protection

Electrical Engineering

- Power Distribution
- Power Generation
- Power Transmission
- Lighting Design
- Fault Analysis & Coordination Studies
- Lightning Protection

Electronic System Design

- Voice & Data Distribution
- Public Address/Sound Systems
- Closed-circuit Television
- Fire Alarm & Security Systems

Energy Management

- DDC
- Facility Automation Systems / Control Systems
- Thermal Storage
- Waste Heat Recovery
- Life Cycle Analysis

Special Services

- Building Code Compliance & Surveys
- Indoor Air Quality/Remedial Design
- Construction Management
- Inspection Services

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Tel 305-266-8997/Fax 305-264-9496/www.gartek-engineering.com



PROJECT ORGANIZATION

Gartek Engineering, Corporation has sufficient personnel within each discipline to allow staff overlapping if needed. Our current technical personnel including principals, has a combined average of over 15 years with the company and an average of 28 years of experience within the industry. We have a strong, tight group of professionals that work together seamlessly.

PERSONNEL	No
Licensed PE's	5
LEED AP Certified	5
Mechanical Engineers	7
Electrical Engineers	6
Plumbing Engineers	1
Fire Protection Engineers	1
AutoCAD and Drafters	4

Studies: Depending upon the discipline several of our personnel work out of at least two of our offices on a regular basis. They are able to connect to the Miami Headquarters main server and work as if they were sitting in the Miami Headquarters. Gartek's server is serviced by an off-site company which ensures the highest level of security as well minimal interruption to our clientele should one of the offices be affected by weather or an unforeseen act of destruction. The server may also be accessed from a secured remote location through a pre-established Virtual Private Network.

Capacity: We assign a primary engineer per discipline to work on each project with a secondary engineer who performs periodic Quality Control reviews. The roles are usually reversed on some projects to give exposure of our client's requirements, project locations, etc. to both engineering and to perform internal QC.

WORK PLAN

We approach each project regardless of size and scope in the same sequence. Initially we meet with the Project Manager and/or end users to define the scope of work. At that time, we gather any existing documents and preliminary survey of the areas or facility to establish the extent of requirements

Upon issuance of the authorization to proceed, we perform detailed surveys using the test instrumentation we have such as: dataloggers, ground resistance testers, harmonic current analyzers, power quality instrumentation and temperature/humidity recorders

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Tel 305-266-8997/Fax 305-264-9496/www.gartek-engineering.com



The next step includes the preparation of conceptual plans to be reviewed with the Project Manager and the end users. Preliminary cost estimates and schedules are provided for the construction portion of the project.

This meeting allows us to identify possible equipment outage requirements and coordinate with the City to incorporate temporary equipment installation where necessary.

The next step would involve the preparation of detailed design drawings and an estimate of probable cost. At this point Gartek Engineering Corporation provides an internal QC (Quality Control) check of the plans by an in-house engineer who has not worked on the project. We have found that a fresh set of eyes reviewing the plans is an effective method of QC.

Once again, we review the plans with the end users and the Project Managers. At this point we usually make a formal presentation of the project to all those that may be affected and answer related questions. Any final comments will then be resolved at this time.

Our firm then assists the client during the bidding process and permitting. Construction administrative services include: RFI's, Shop Drawing reviews, and pay requisites, verify compliance with code and plans and verification of as-built mark-ups

The final steps involve the final punch out, as-builts and final acceptable by the client and a one-year warranty inspection. Again, the approach outlined above is standard for all of our projects regardless of size or work order.

SCHEDULING

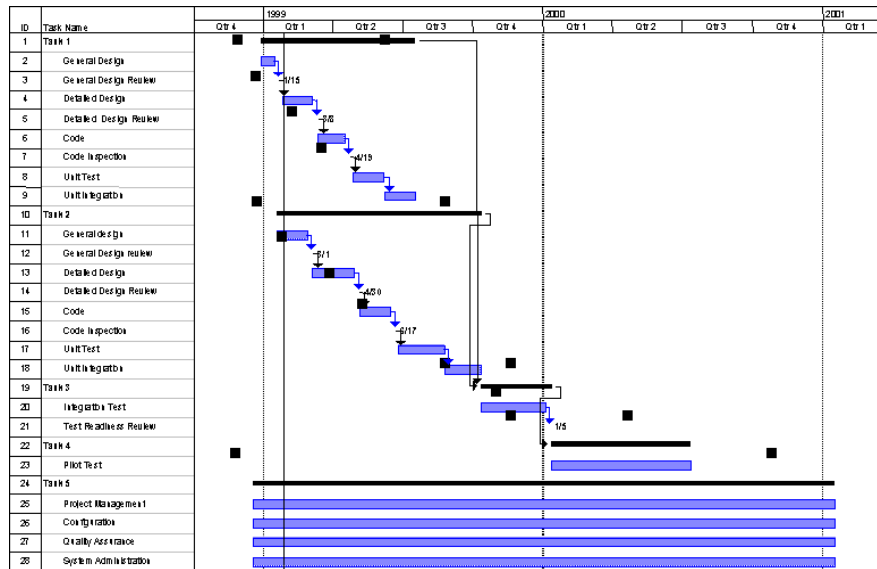
We offer our clients the ability to manage multiple task orders simultaneously. The schedules can be modified to show the progression of the Task Orders individually and how they may overlap or involve phasing which would be crucial in the event we are upgrading or replacing equipment, with little to no down time. We would prepare a detailed schedule to demonstrate how this will be accomplished with minimal systems interruption.

Also, if there are occupied areas we may need to phase the construction to ensure minimal interruption and inconvenience to the occupants therefore we would provide a detailed phasing schedule so all parties involved as we are aware of the best practices that will be followed.

Example of a generic project schedule - not representative of a specific project:

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BUDGET CONTROL

Budgets are a key component to your work program; therefore, we take measures to control costs. We typically follow a multi-step process consisting of the following:

- Generally, two cost estimates, more if required. One after initial investigation, one prior to final
- Identify Long lead items during design to avoid delays
- Prepare detailed phasing plans of construction to identify potential delays during construction
- Evaluate electrical and any major out outage times (chillers, pumps, UPS, etc.)
- Establish windows of opportunity jointly with user to minimize interruption to users of facilities

The importance we place on investigating existing conditions and looking at schedules results in MEPFP costs within budgets. Most of our cost estimates are within or below construction Change orders caused by errors and omissions are minimal or non-existent.



Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GARTEK ENGINEERING CORPORATION

7210 SW 39TH TERRACE
MIAMI FL 331556624

LICENSE NUMBER: CA3144

EXPIRATION DATE: FEBRUARY 28, 2021

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GARTEK ENGINEERING CORP.

Mechanical • Electrical • Plumbing • Fire Protection Services

MEL F. GARCIA, P.E., LEED AP

Vice President / Principal, Electrical Engineer

Mr. Mel Garcia has over 40 years of experience in electrical design, including power and lighting. His experience also encompasses design of electronic systems including telephone, central clock, P.A., security, and fire alarm systems. Mel has also been involved in code compliance issues and peer review to ensure quality control. Mr. Garcia participates in electrical construction administration and inspection services on a regular basis and is the Electrical Engineer of Record.

RESPONSIBILITIES

Mel serves as the firm overall coordinator and expeditor for electrical projects. He is responsible for meeting with clients, attending presentations and supervises activities across the project design team. He is instrumental in developing electrical designs, coordinates design progress with other system design disciplines internally, and coordinates design development with building architects and engineers from pre-design activities through 100% design submittals. He participates in electrical construction administration and inspection services on a regular basis and is the Electrical Engineer of Record. Mel is also involved in code compliance issues and review of other professionals' design to ensure quality control.

RELEVANT EXPERIENCE

- Replacement of the generators in the Palm Beach County Main Detention Center
- The Federal Reserve Bank of Miami Generator Replacement
- Palm Beach County WUD repump station 9N Design Upgrades
- City of Miami storm water pumping stations
- Federal Reserve Bank of Jacksonville study phase and replacement of two paralleled 800kW generators
- Atlanta Branch of the Federal Reserve Bank Replace power automation control system of the electrical distribution system of
- Pahokee communications facility Replacement of existing 125kW generator for 800MHz y at, Palm Beach County
- Port Everglades Feasibility Study to place nine (9) Cruise Terminals on emergency power
- John Prince Park Automatic Transfer Switch
- Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates

EDUCATION

BS, Electrical Engineering– University of Miami, Coral Gables, Florida

CERTIFICATIONS

Professional Engineer, State of Florida PE # 24221
LEED Accredited Professional
UBCI Inspector - 10.31.00
American College of Forensic Examiners - #14892
ICC
Electrical Plans Examiner #050S
ICC
Commercial Electrical Inspector #5167634-E2
Standard Plans Examiner State of Florida #PX2357
Standard Inspector State of Florida #BN4735

WORK EXPERIENCE

45 years
1980 - Present: Gartek Engineering Corp

OFFICE LOCATION

7210 SW 39 Terrace
Miami, FL 33155

2700 N 29th Av
Hollywood, FL 33020



GARTEK ENGINEERING CORP.

Mechanical • Electrical • Plumbing • Fire Protection Services

- Feasibility study to place twelve (12) Palm Beach County facilities on emergency power
- Palm Beach County Herman Brice Fire Rescue Training Facility Generator
- Fire Stations 26, 27, 51 Generator Replacement
- Jackson Memorial Hospital/Public Health Trust Energy Center Upgrading
- Diageo Barrel Storage Facility
- Four Points Office Building and Supervisor of Elections Building
- Krum Bay Substation. St. Thomas USVI. Relocate Generator
- Palm Beach County Administration Building
- Palm Beach County Central High School New Generator
- Palm Beach County Fairgrounds
- Palm Beach County Odyssey Middle School
- Palm Beach County Public Channel 20 – Emergency Generator
- Palm Beach Sheriff's Office Aviation
- Palm Beach Sheriff's Office Fire Rescue Training Facility
- Palm Tran North
- Palm Tran South
- Emergency Generator installations at: Palm Beach County Credit Union, Connemara Condominium (for use as Palm Beach County's Emergency Communications Center); Credomatic of Florida, Amadeus/EDS/System One; Miami-Dade Police Stations 1, 2, 4, 5, 6, 8; Palm Beach County South County Administration Complex and Caterpillar Training Center





Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

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GARCIA, MELQUIADES

7210 SW 39TH TERRACE
MIAMI FL 331550000

LICENSE NUMBER: PE24221

EXPIRATION DATE: FEBRUARY 28, 2021

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TITO ALVARADO, P.E., LEED AP
Electrical, Power & Lighting Engineer

Mr. Alvarado has over 30 years of design experience in electrical design of residential, commercial, industrial and institutional buildings; load calculations; distribution systems planning & design (low and medium voltage); advanced knowledge in electrical planning, design, supervising construction maintenance and operation of medium and low voltage; F/A calculation, voltage drops and battery calculation; building evaluation & certification; grounding system and pool grounding system testing; preparation of electrical specifications and bidding process; cost estimates and construction units; bidding process to USA and Latin-American environments; power quality monitoring and analysis on LV, MV & HV substations. His primary responsibilities are assigned by Mel Garcia, P.E./ Principal.

SELECT EXPERIENCE

- Palm Beach County Main Detention Center Major Emergency Power System Upgrade
- Palm Beach County Convention Center
- Palm Beach County Convention Center Parking Garage
- Palm Beach County Palm Tran Facility
- Jackson Memorial Hospital/Public Health Trust Energy Center Upgrading: Electrical Switchgear, Emergency Paralleling Gear and Emergency Generators
- Palm Beach County's Main Courthouse phased replacement of (4) 650-ton chillers
- Palm Beach County Criminal Justice Center Generator paralleling switchgear controls upgrade
- Palm Beach Sheriff's Office: Replacement of UPS
- Federal Reserve Bank Miami
 - Replace AHU #4 MO4.18
 - Electrical distribution system assessment
 - Switchboard upgrade evaluation
 - Electrical distribution system assessment
 - Cooling towers CT1, CT2, CT3
 - Emergency power system analysis
 - Power system analysis
- Broward County's Medical Examiner's Office and BSO's Crime Lab Combined Facility, Broward County, Florida

EDUCATION:

Master of Science
Industrial Engineering, 1994
Caracas, Venezuela
Bachelor of Science Electrical
Engineering, 1987
Caracas, Venezuela

EDUCATION

Master of Science -
Industrial Engineering
Caracas, Venezuela /
1994
Bachelor of Science -
Electrical Engineering
Caracas Venezuela /
1987

WORK EXPERIENCE

33 years of work experience
2006 - Present: Gartek

CERTIFICATIONS

Accreditation by Joseph
Silny & Associates, Inc.
International Education
Consultant / 2006

OFFICE LOCATION

2700 N 29th Av
Hollywood, FL 33020



www.gartek-engineering.com

GARTEK ENGINEERING CORP.

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BENJAMIN DEZAYAS, P.E., LEED AP

Lead Electrical Engineer

Mr. De Zayas has 15 years of experience in design and drafting electrical, lighting, fire alarm, lightning protection, low voltage and communication systems for hospitality, commercial, health care, educational, government facilities, domestic and international. His experience encompasses all aspects of design from schematic design development through construction documentation and continuing to the conclusion of construction administration. He has performed fault current and coordination studies for new designs using SKM systems analysis software as well as lighting calculations to meet photometric illumination and energy requirements.

RESPONSIBILITIES

As Lead Electrical Engineer, Ben supervises activities across the project's electrical design team. He is responsible for meeting with clients, attending presentations and facilitates the collaborative development of the design reports, drawings, specifications and other planning and design deliverables throughout the project. He is directly involved in shop drawing review and approval, inspection reporting and documentation, management of punch lists and as-built plans.

RELEVANT EXPERIENCE

- Herman Brice Generator Main bldg. Design/CA
- Pahokee Tower Generator Replacement
- Supervisor of Elections ATS
- JPP Garlic Fair Underground Electrical Utilities Distribution System
- Palm Beach County Main Detention Center Major Emergency Power System Upgrade
- Caterpillar Training Center Generator Evaluation
- City of Weston, Emergency Operations Center, IT Services Building
- Federal Reserve Bank of Atlanta
- Palm Tran North HVAC Replacement
- Fire Station 51 Generator Replacement
- Palm Beach County Fleet Building Electrical Room Generator Power Study
- Emergency Generator for Goya Foods Orlando Facility
- John Prince Park Automatic Transfer Switch
- Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates
- Palm Beach County WUD repump station 9N Design Upgrades
- Port Everglades Feasibility Study to place nine (9) Cruise Terminals on emergency power
- Replacement of the generators in the Palm Beach County Main Detention Center

EDUCATION

BS, Electrical
Engineering Florida
International
University, Miami,
Florida

CERTIFICATIONS

P.E. Lic. No: 82325
LEED AP GBCI #
10267248

WORK EXPERIENCE

15 years
2013 - Present: Gartek

OFFICE LOCATION

7210 SW 39 Terrace
Miami FL 33155
2700 N 29th Av
Hollywood, FL 33020



www.gartek-engineering.com



Ron DeSantis, Governor

Halsey Beshears, Secretary



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

BOARD OF PROFESSIONAL ENGINEERS

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

DE ZAYAS, BENJAMIN R

7210 SW 39TH TERRACE
MIAMI FL 33155

LICENSE NUMBER: PE82325

EXPIRATION DATE: FEBRUARY 28, 2021

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Who we are:

Ritzel-Mason is a Palm Beach County based professional services company offering a wide range of survey and mapping solutions. We bring to the table a collective 55 years in employee experience. We are laser focused on asking the right questions, understanding the results and taking action to getting it right the first time.

Our mission is to use our combined experience and allocate the appropriate resources to provide the highest level of customer service through technical knowledge, hands on field experience, communication, responsiveness and dependable delivery.

Each of our assignments are tailored to the ultimate needs of our clients which allows us to allocate our resources and experience in such a way that confidently assures that Ritzel-Mason is the right choice to complete the project on time and on budget.

We specialize in most survey and mapping services, including but not limited to: subsurface utility engineering (SUE), topographic, boundary, right-of-way mapping, historic baseline establishment, drone photography, construction layout, laser scanning and conventional and GPS surveying.

Specializing in Subsurface Utility Engineering (SUE):

Ritzel-Mason follows the industry recognized ASCE 38 – “Standard Guideline for the Collection and Depiction of Existing Underground Utility Data where quality levels are noted for all utilities investigated. We treat utility issues using engineering judgement, focusing attention to properly assess the potential utilities impacted on each project. We use the latest utility detection equipment including Ground Penetrating Radar (GPR), pipe and cable locators from Radio Detection and vacuum excavation equipment for soft dig test holes.

Small Business Enterprise:

We are proud to be certified as an SBE for Palm Beach County (including CCNA certified), the City of West Palm Beach (WPB), South Florida Water Management District (SFWMD), Florida Department of Transportation (FDOT) and Broward Health.

Directors:

Dennis Ritzel, PSM, EI has worked in the discipline of surveying and mapping since 1996. His extensive experience includes right-of-way mapping, control surveys, design surveys and sketch & legals. He is proficiency in the latest industry technology and software. Mr. Ritzel has been utilizing laser scanning equipment since 2005 and excels at all aspects of point cloud processing including full 3D modeling and corridor mapping. He has been involved with all aspects of subsurface utility engineering (SUE) since 2006 and is certified to plan and evaluate SUE processes. He is proficient in the use of unmanned aerial vehicles (UAV's) and is UAV certified to operate at a commercial level.

Clyde Mason II, PSM is an experienced Professional Surveyor and Mapper with more than a decade of experience, primarily in the South Florida area, providing right-of-way, control survey, subsurface utility engineering, and topographic design surveys. He is proficient in the latest industry technology and software. Mr. Mason is a skilled problem solver and has been involved with all aspects of subsurface utility engineering (SUE) and survey processes.

Mr. Ritzel and Mr. Mason's ability to establish strong working relationships with clients and co-workers and their commitment to consistently meet project budgets and schedules will be the key differentiators on your next project.

Ritzel-Mason, Inc.

2131 Hollywood Blvd Suite 204
Hollywood, Florida 33020

Phone: 786.472.0358

www.ritzel-mason.com



Dennis A Ritzel, PSM

Contract Role
Project Manager

Years' Experience
23

Joined Ritzel-Mason Inc.
January 2019

Education
BS / Geomatics
Engineering / Florida
Atlantic University / 2013
AA / Palm Beach
Community College / 2008

**Professional
Registrations**
PSM / 2013 / FL #6953
Engineering Intern
#1100022325

Certifications
NSPS CST IV#1102-1681
Trenchless Technology
Utility Investigation Cert.
UAV part 107 #4167143
Advanced Cyclone
Certification 2006

Affiliations
Florida Surveying and
Mapping Society – Officer
Gold Coast Surveying
Council

www.ritzel-mason.com

Summary of Experience

Mr. Ritzel has worked in the discipline of surveying and mapping since 1996. He began his career as a survey technician in Maryland and relocated to the South Florida area in 2002. Since 2002, Mr. Ritzel has continuously worked on Florida Department of Transportation projects. This includes well over 200 projects and task-work-orders through various continuing services and subcontractor contracts. His extensive experience includes right-of-way mapping, control surveys, design surveys and sketch & legals. His proficiency in the latest industry technology and software includes: TopoDOT, Carlson 2019, AutoCAD Civil 3D 2018, MicroStation v8i SS4, Geopak, CAiCE, Trimble Business Center, Trimble Total Control, Hector, Cyclone, ArcMap, GPS RTK, and Static network downloading and post processing. Mr. Ritzel has been utilizing laser scanning equipment since 2005 and excels at all aspects of point cloud processing including full 3D modeling and corridor mapping. He has been involved with all aspects of subsurface utility engineering (SUE) since 2006 and is certified to plan and evaluate SUE processes. He is proficient in the use of unmanned aerial vehicles (UAV's) and is UAV certified to operate at a commercial level. Mr. Ritzel's experience also includes two years as a project designer for various engineering design tasks such as hydraulic, hydrology, storm drainage, sediment control, and mining. Mr. Ritzel possesses highly effective problem solving and leadership skills. His ability to establish strong working relationships with clients and co-workers and his commitment to consistently meet project budgets and schedules are some key benefits to the Ritzel-Mason team.

Significant Projects

Lighthouse Point Bridges, Broward County, FL., Project manager responsible for subsurface utility engineering designates and locates (test holes). The purpose of this effort was to locate and survey the existing transition fittings for the forcemain and watermain utilities installed by directional bore under ten (10) existing bridges. Over 50 locates were performed and surveyed. Data was processed in AutoCAD Civil 3D and submitted to the client.

Solid Waste of Palm Beach County Miscellaneous Surveying and Mapping Contract, Project Surveyor provided survey services for this task-work-order based contract that consisted of SUE, Sunshine 811 locate tickets, topographic surveying, laser scanning, quantity surveying and construction stakeout services for the maintenance and growth of the county landfill and transfer stations. Data was processed in AutoCAD Civil 3D and submitted to SWA Head Surveyor.

Miami World Center, Project manager supported the engineer of record's design efforts for utility relocation in downtown Miami. The firm was tasked to perform numerous types of subsurface utility functions including: GPR, electromagnetic detection and utility locates (test holes). Utility data was surveyed and an AutoCAD deliverable was provided to the client.

SR 710 / Beeline Highway from Northlake Boulevard to SR 708 / Blue Heron Blvd., Palm Beach County, FL., FDOT District 4, Project manager supported the engineer of record's design efforts for this roadway expansion design project. The firm



provided SUE, design survey and utility coordination services including recovering and establishing secondary horizontal and vertical control, performed field work needed to prepare topographic mapping and a Digital Terrain Model (DTM), drainage structure location, terrestrial laser scanning, designated and mapped utilities and performed test holes as needed. Research included historic baseline, right-of-way and title searches. Data was processed in MicroStation SS4 and submitted to the engineer.

SR 5 / US Highway 1, George Bush Blvd. to Murano Bay, Palm Beach County, FL., FDOT District 4, Project manager supported the engineer of record's design efforts for this 3R design project. The firm provided horizontal and vertical primary and secondary control utilizing static GPS, RTK GPS and total station methods. The historic baseline was re-established and approved by the FDOT District Surveyor. Aerial targets were set and the data was provided to the aerial mapping firm. Obscure and soft topographic data was also provided to the aerial mapping firm for merging. The firm was responsible for the survey of utility designates and locates by others. Existing rights-of-way were determined using readily available data and limited title search reports and submitted to the FDOT right-of-way department for review. Data was processed in MicroStation SS4 and submitted to FDOT.

10th Street Forcemain Utility Investigation, City of West Palm Beach, Project surveyor supported the City of West Palm Beach to study the forcemain in a historic neighborhood. The firm was tasked to perform subsurface utility functions including: GPR, electromagnetic detection and utility locates (test holes). Utility data was surveyed and an AutoCAD deliverable was provided to the client.

FGT Global Relocation, Broward/Miami-Dade Counties, FL., Project manager supported the relocation of 16 miles of Florida Gas Transmission natural gas pipeline. The firm was tasked to map existing utilities and drainage features in a proposed 16-mile corridor from Davie to Miami Gardens. Utility data was surveyed and an AutoCAD deliverable was provided to the client. GIS data was also provided as requested by the engineer of record.

I-395 Interchange Design Build, Miami-Dade County, FDOT District 6, Project manager supported the engineer of record's design efforts for this major design build. The firm was responsible for all SUE efforts including 90 miles of utility designates and 375 test holes as directed by the utility coordinator. The utility designating effort was quality controlled using MCGPR (multi-channel ground penetrating radar). The Project Manager was also responsible for obtaining lane closure permits with the City of Miami and coordinating with the MOT subcontractor. SUE data was processed in MicroStation SS4 and submitted to the engineer.

Continuing Surveying Services Master Contract Lauderdale Lakes, City of Lauderdale Lakes, Broward County, Project surveyor provided survey services for this task-work-order based contract that consisted of field design surveys, right-of-way mapping and other related work. Signed and sealed surveys and AutoCAD Civil 3D deliverables were provided to the City.

Bal Harbour Shoppes, Miami-Dade County, FL., Project manager supported the engineer of record's design efforts for a reconstruction of a shopping plaza. The firm was tasked to perform numerous types of subsurface utility functions including: GPR, electromagnetic detection, utility locates (test holes) and trenching. Utility data was surveyed and an AutoCAD deliverable was provided to the client.

Countess De Hoernle Park, Boca Raton, FL., Project manager provided boundary and topographic survey support for this project. Data was processed and submitted to the City of Boca Raton.

www.ritzel-mason.com



Clyde R Mason II, PSM

Contract Role
Project Manager

Years' Experience
16

Joined Ritzel-Mason
August 2018

Education
BS / Geomatics
Engineering / Florida
Atlantic University / 2011

Professional Registrations
PSM / 2012/ FL / #6905
PS / 2013 / OH / #8601
PLS / 2018 / NC / #5297

Affiliations
Florida Surveying and
Mapping Society

Gold Coast Land Surveyors
Council

www.ritzel-mason.com

Summary of Experience

Mr. Mason is an experienced Professional Surveyor and Mapper with more than a decade of experience, primarily in the South Florida area, providing right-of-way, control survey, subsurface utility engineering, and topographic design surveys for the Florida Department of Transportation. He is proficient in the latest industry technology and software including: 3D laser scanning, all forms of conventional and GPS survey equipment operation, AutoCAD Civil 3D, MicroStation SS4, Geopak, Carlson 2019, Trimble Business Center, Hector, Cyclone, ArcGIS, data processing, full 3D modeling and both Static and RTK GPS post processing. Mr. Mason is a skilled problem solver and has been involved with all aspects of subsurface utility engineering (SUE) and survey and mapping processes. His ability to establish strong working relationships with clients and co-workers and commitment to consistently meeting project budgets and schedules are highly beneficial to the Ritzel-Mason team.

Significant Projects

SR 5 / US Highway 1, George Bush Blvd. to Murano Bay, Palm Beach County, FL., FDOT District 4, Project surveyor supported the engineer of record's design efforts for this 3R design project. The firm provided horizontal and vertical primary and secondary control utilizing static GPS, RTK GPS and total station methods. The historic baseline was re-established and approved by the FDOT District Surveyor. Aerial targets were set and the data was provided to the aerial mapping firm. Obscure and soft topographic data was also provided to the aerial mapping firm for merging. The firm was responsible for the survey of utility designates and locates by others. Existing rights-of-way were determined using readily available data and limited title search reports and submitted to the FDOT right-of-way department for review. Data was processed in MicroStation SS4 and submitted to FDOT.

Flamingo Road from Griffin Rd to I-595, Broward County, FL., FDOT District 4, Project surveyor for this 3.4-mile topographic survey for 3R and design project, Mr. Mason was responsible for all, project planning including field survey coordination, control retracement and establishment. In addition, Mr. Mason was responsible for the post processing of all field data and creating the surfaces necessary to combine with LAMP photogrammetric drawings to generate a final surface for the design engineer.

I-595 Express Lanes P3, Broward County, FL., FDOT District 4, Party chief supported the engineer of record's design efforts for this major design build. The firm was responsible for all SUE and topographic efforts. Data was processed in MicroStation SS4 and submitted to the engineer.

Districtwide Miscellaneous Surveying and Mapping Contract C9J66, Florida Department of Transportation, District 6, Miami-Dade County, FL. Project surveyor provided survey services for this task-work-order based contract that consisted of field design surveys, 3D bridge modelling, right-of-way control survey and mapping, historic baseline and monumentation for highway, bridge, signalization design, and other related work. Data was processed in MicroStation SS4 and submitted to FDOT.

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I-95 from Becker Rd to Midway Rd, FDOT District 4, St. Lucie County, As the Project surveyor for this Overpass Topographic Surveying and Design project, Mr. Mason was responsible for all field survey activities and Control Survey Maps. In addition, Mr. Mason prepared a Design Survey for all four I-95 overpasses including DTM creation for new roadway design.

Indrio Road, St. Lucie County, FL., FDOT District 4, As the Project surveyor for this 3.2-mile Design Surveying project, Mr. Mason was responsible for all field survey activities and Control Survey Maps. In addition, Mr. Mason prepared a 3D DTM for the design engineers.

SR 55 / Commercial Way, Hernando County, FL., FDOT District 7, As the Assistant Project Surveyor for this 2.5-mile Historical Baseline Surveying and Right-of-Way Mapping project, Mr. Mason was responsible for assisting in all field survey activities, Control Survey Maps and Right of Way Maps and calculations. In addition, Mr. Mason prepared a Right-of-Way map for the project to support the design efforts.

Golden Glades Interchange, Miami-Dade, FL, FDOT District 6, Miami-Dade County, Senior project surveyor for this Golden Glades Interchange redesign project, Mr. Mason was responsible for all field survey activities and Control Survey Maps. In addition, Mr. Mason prepared a 3D Design Survey for all bridge and flyover structures for accurate existing conditions for redesign.

SR 710 / Beeline Highway from Northlake Boulevard to SR 708 / Blue Heron Blvd., Palm Beach County, FL., FDOT District 4, Senior project surveyor supported the engineer of record's design efforts for this roadway expansion design project. The firm provided SUE, design survey and utility coordination services including recovering and establishing secondary horizontal and vertical control, performed field work needed to prepare topographic mapping and a Digital Terrain Model (DTM), drainage structure location, terrestrial laser scanning, designated and mapped utilities and performed test holes as needed. Research included historic baseline, right-of-way and title searches. Data was processed in MicroStation SS4 and submitted to the engineer.

AET Phase 4C – Dolphin Stadium Plaza, Miami-Dade County, FL., Project surveyor for Florida's Turnpike Enterprise, provided survey support services for the improvement of the Dolphin Stadium ramp. Services included setting primary and secondary control, topography, drainage, utility designates, utility locates and geotechnical data collection. The data was merged with a previous survey and submitted to the client in a MicroStation SS4 format.

Lighthouse Point, Broward County, FL., Project surveyor responsible for subsurface utility engineering designates and locates (test holes). The purpose of this effort was to locate and survey the existing transition fittings for the forcemain and watermain utilities installed by directional bore under ten (10) existing bridges. Over 50 locates were performed and surveyed. Data was processed in AutoCAD Civil 3D and submitted to the client.

Countess De Hoernle Park, Boca Raton, Palm Beach County, FL., Party chief provided boundary and topographic survey support for this project. Data was processed and submitted to the City of Boca Raton.



Archaeological and Historical Conservancy, Inc.

4800 S.W 64th Ave, Suite 107 Davie, FL 33314

Phone: 954-792-9776

Fax: 954-792-9954

archlgcl@bellsouth.net www.flarchaeology.com

Corporate Overview

The Archaeological and Historical Conservancy, Inc. (AHC) is a Florida not-for-profit organization founded in 1980 dedicated to the investigation and preservation of significant archaeological and historical sites across Florida and the Caribbean.

Beginning with excavations at the Cutler Fossil site in Miami-Dade County, AHC has documented over 1000 sites throughout Florida and the Bahamas. Investigations have included excavations at the Miami Circle, Ten Thousand Islands, the Ortona Canals, Fort Pierce, Okeechobee Battlefield and Fort Van Swearingen. AHC played a pivotal role in preserving these and many other significant sites, including Snake Warriors Island, the Ortona Mound Complex, the Loxahatchee Battlefield, Otter Mound and the Pine Islands. A recent example of interpretive design work is the exhibit hall at Long Key in Broward County. Noteworthy among Caribbean projects is the recent documentation of Preacher's Cave, a burial complex on Eleuthera Island and site of the first macro evidence of maize cultivation in the Bahama archipelago.

The AHC has developed the first monitoring protocol in the State of Florida in response to Hurricane Andrew in 1992 and with the expansion of Indiantown Road in Palm Beach County. Since 1995, AHC developed and implemented guidelines for monitoring of residential projects in the City of Miami archaeological conservation areas.

The Archaeological and Historical Conservancy conducts archaeological and historical assessments, surveys, investigations, excavations, and monitoring. AHC also provides site management plans, tours of sites, and exhibit design and development. Services are available to public agencies, developers, businesses, and museums.



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Phone: 954-792-9776 Fax: 954-792-9954

Email: archlgcl@bellsouth.net Web: www.flarchaeology.com

Robert S. Carr

Education

August 1976	Florida State University, Tallahassee, Florida. <ul style="list-style-type: none">• M.S. Degree in Anthropology
August 1972	Florida State University, Tallahassee, Florida. <ul style="list-style-type: none">• B.A. Degree in Anthropology
1970 – 1971	University of Miami, Coral Gables, Florida. <ul style="list-style-type: none">• Course Work
June 1968	Miami-Dade Junior College, Miami, Florida. <ul style="list-style-type: none">• A.A. Degree

Professional Experience

1999 – Present	Archaeological and Historical Conservancy, Inc. <ul style="list-style-type: none">• Executive Director
1996 - 1999	Dade County Historic Preservation Division <ul style="list-style-type: none">• Director
1994 - 1995	Dade County Division of Historic Preservation <ul style="list-style-type: none">• Acting Director
1978 - 1999	Dade County Division of Historic Preservation <ul style="list-style-type: none">• County Archaeologist
1980 - 1981	Florida Archaeological Council <ul style="list-style-type: none">• President
1980 - 1983	<i>The Florida Anthropologist</i> <ul style="list-style-type: none">• Editor
March 1977	U.S. Park Service, SE Archaeological Center, Tallahassee, Florida. <ul style="list-style-type: none">• Archaeologist
1973 - 1976	Division of Archives History and Records Mgmt, Tallahassee, Florida. <ul style="list-style-type: none">• Contract Archaeologist

Representative Projects (Principal Investigator)

2015	Archaeological Assessment of the Cutler Fossil Site, Miami-Dade County
1999 - 2003	Archaeological assessment and data analysis of Miami Circle (8DA12)
2000 - 2001	Archaeological investigation of Okeechobee Battlefield. Boundary



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Ryan Franklin

Education

- 2009 University of the Witwatersrand, Johannesburg, South Africa.
• Ph.D. in Palaeoanthropology
- 2005 University of the Witwatersrand, Johannesburg, South Africa.
• M.Sc. in Palaeoanthropology
- 2002 Florida Atlantic University, Boca Raton, Florida.
• B.A. in Anthropology

Professional Experience

- 2007 - Present Archaeological and Historical Conservancy, Inc., Davie, Florida
• Osteologist and Collections Manager
- 2007 Human Origins, C.C., Johannesburg, South Africa
• Project manager for Gladysvale Cave excavation, 2007 field season
- 2006 Archaeological and Historical Conservancy, Inc., Davie, Florida
• Archaeological field director / technician
- 2001 University of the Witwatersrand., Johannesburg, South Africa
• Fossil excavations at Gladysvale, Bolt's Farm, Motsetse, Cooper's D •Teaching assistant for Duke University field school

Selected Reports and Publications

- 2012 Carr, Robert S., Ryan Franklin, Ray Skinner, Timothy Harrington, and John Beriault Archaeological Monitoring of Fort Lauderdale Beach Park Improvements, Broward County, Florida *AHC Technical Report #957*
- 2010 Carr, Robert S., and Ryan Franklin A Phase 1 Archaeological Survey of 1480 North Lake Way, Town of Palm Beach, Florida *AHC Technical Report #924*
- 2009 Carr, Robert S., Ryan Franklin, Joseph F. Mankowski, John G. Beriault, and Timothy A. Harrington Phase II Cultural Resource Survey of Tarpon Bend Park, City of Fort Lauderdale, Broward County, Florida *AHC Technical Report # 886*
- 2009 Carr, Robert S., Ryan Franklin, and Timothy A. Harrington Phase I Cultural Resource Survey of the Reese Parcel, Palm Beach County, Florida *AHC Technical Report # 880*



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Ryan Franklin

Education

- 2009 University of the Witwatersrand, Johannesburg, South Africa.
• Ph.D. in Palaeoanthropology
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- 2009 Carr, Robert S., Ryan Franklin, Joseph F. Mankowski, John G. Beriault, and Timothy A. Harrington Phase II Cultural Resource Survey of Tarpon Bend Park, City of Fort Lauderdale, Broward County, Florida *AHC Technical Report # 886*
- 2009 Carr, Robert S., Ryan Franklin, and Timothy A. Harrington Phase I Cultural Resource Survey of the Reese Parcel, Palm Beach County, Florida *AHC Technical Report # 880*

2008 Carr, Robert S., Joseph F. Mankowski, and Ryan Franklin Archaeological Assessment of 3031 and 3115 Brickell Avenue, Miami-Dade County, Florida *AHC Technical Report # 846*

Ryan Franklin—page 2

2008 Carr, Robert S., and Ryan Franklin An Archaeological Assessment of Impacts to Parcels A and B, 8BD41, Parkland, Broward County, Florida *AHC Technical Report # 860*

2008 Carr, Robert S., Joseph F. Mankowski, Ryan Franklin, and John G. Beriault Archaeological Assessment of the Oakwood Center Parcel, Dania Beach, Broward County, Florida *AHC Technical Report # 831*

2008 Carr, Robert S., Joseph F. Mankowski, Ryan Franklin, John G. Beriault, and Timothy A. Harrington Cultural Resource Survey of the Briger Parcel, Palm Beach County, Florida *AHC Technical Report # 865*

2008 Franklin, R. and Schaffer, W. *The Bioarchaeology of Santa Maria West*. Presentation to the Florida Anthropological Society, Annual Meeting.

2008 Franklin, R. and Beriault, J.G. A Phase I Cultural Resource Survey of the Tarpon Park Parcel, Fort Lauderdale, Broward County, Florida. *AHC Technical Report # 868*.

2008 Franklin, R., Mankowski, J.F. and Beriault, J.G. A Phase III Cultural Resource Assessment of 8DA1081 within the SW 157th Avenue R.O.W. *AHC Technical Report # 85*.

2006 Franklin, R. and Mankowski, J.F. A Phase I Archaeological Survey and Assessment of the Bogg Site (8DA5131), Miami-Dade County, Florida. *AHC Technical Report # 732*.

2006 Beriault, John G., and Ryan Franklin A Phase I Archaeological Assessment of the Savanna Lakes Parcel, Lee County, Florida *AHC Technical Report # 752*

2006 Carr, Robert S., Ryan Franklin, David Boschi, and Joseph F. Mankowski Phase I Archaeological Assessment of the Four Fillies Parcel, Miami-Dade County, Florida *AHC Technical Report # 757*

2006 Mueller, Bradley M., Ryan Franklin, William Schaffer, and Ashely Gelman Phase I Cultural Resource Assessment Survey of the Blind Creek East Parcel, St. Lucie County, Florida *AHC Technical Report # 764*

2006 Beriault, John G., David Boschi, Ryan Franklin, and Joseph F. Mankowski Phase II Archaeological Investigations of the Lely #5 Site 8CR751, Collier County, Florida *AHC Technical Report # 771*

2005 Steininger, C., DeRuiter, D.J., Franklin, R. and Berger, L. *New Hominids from Coopers Cave*. Presentation to the African Genesis Conference, South Africa

Professional Affiliations

Institute for Human Evolution



Archaeological and Historical Conservancy, Inc.

4800 S.W 64th Ave, Suite 107 Davie, FL 33314

Phone: 954-792-9776 Fax: 954-792-9954

Email: archlgcl@bellsouth.net Web: www.flarchaeology.com

Timothy A. Harrington

Education

- | | |
|-------------|--|
| 1971 – 1974 | Kyoto University of Arts, Kyoto, Japan <ul style="list-style-type: none">• Traditional Japanese Painting |
| 1968 – 1974 | Studio of Kaname Juhei, Kyoto, Japan <ul style="list-style-type: none">• Sumi-e and Zen Calligraphy |
| 1964 - 1965 | Ball State University, Muncie, Indiana <ul style="list-style-type: none">• Anthropology, Studio Arts |
| 1963 - 1964 | St. John's College, Annapolis, Maryland <ul style="list-style-type: none">• Greek and Roman Classics |

Professional Experience

- | | |
|----------------|---|
| 2006 – Present | Archaeological and Historical Conservancy, Inc., Davie, Florida <ul style="list-style-type: none">• Architectural Historian• Graphics and exhibit designer |
| 2000 – 2006 | City of Fort Pierce, Fort Pierce, Florida <ul style="list-style-type: none">• Historic Preservation Planner• Publications and exhibit designer• Art in Public Places coordinator |
| 1997 - 2000 | CNS/Florida State Rural Development Council, Tallahassee/Fort Pierce, Florida <ul style="list-style-type: none">• Worked for Main Street Fort Pierce as a VISTA• Wrote grants and secured National Register listings• Produced exhibits and books on historic preservation |
| 1995 - 1997 | CNS/Florida Commission on Community Service, Tallahassee/Homestead, Florida <ul style="list-style-type: none">• Rebuilt hurricane-demolished homes with Habitat for Humanity• Taught the children of migrant farm workers for Centro Campesino |
| 1992 – 1995 | Suncoast Representation Services, International Planning, Inc., and Sunshine Seven, Orlando and Miami, Florida <ul style="list-style-type: none">• Worked as an interpreter and tour coordinator for Japanese visitors |
| 1986-1994 | Abernethy & Associates, Architects & Engineers, and Chalmers Yeilding, Architect, Orlando, Florida <ul style="list-style-type: none">• Drafted construction documents for residential and commercial buildings• Documented historic structures, surveyed and mapped historic districts |

Page 1 of 2

Timothy A. Harrington—page 2

Selected Reports and Publications

- 2009 Carr, Robert S., Ryan Franklin, Timothy A. Harrington, and John G. Beriault A Phase I Cultural Resource Survey of the Reese Parcel, Palm Beach County, Florida *AHC Technical Report #880*
- 2008 Carr, Robert S., Joseph F. Mankowski and Timothy A. Harrington A Reconnaissance Level Cultural Resource Assessment of the Adams Ranch Stewardship Sending Area (SSA), St. Lucie County, Florida *AHC Technical Report # 821*
- 2007 Harrington, Timothy A. An Architectural Survey and Assessment of the Lainhart Cabin Parcel, Palm Beach County, Florida *AHC Technical Report #823*
- Carr, Robert S., John G. Beriault, Timothy Harrington A Phase I Cultural Resource Assessment of the Coral Creek Bridge Parcel, Charlotte County, Florida *AHC Technical Report #813/750*
- Harrington, Timothy and Robert S. Carr A Phase I Cultural Resource Assessment of the Flagler Drive Realignment and Waterfront Enhancement, City of West Palm Beach, Florida *AHC Technical Report #776*
- Carr, Robert S., John G. Beriault, Stephanie Faulkner, Timothy A. Harrington and John Crump A Cultural Landscape Assessment of the Nehrling Garden Portion of the Naples Zoo Property, Collier County, Florida *AHC Technical Report #761*
- 2006 Carr, Robert S., Timothy A. Harrington, and Aaron Henry An Archaeological Management Plan and Assessment of St. Gaudens Point, Miami, Florida *AHC Tedchical Report #736*
- 2005 Carr, Robert S. and Timothy A. Harrington An Archaeological Management Plan for the Empire World Towers Parcel, Miami, Florida *AHC Technical Report #666*
- 2003 Carr, Robert S., Mark Lance, Allison Elgart-Berry, and Tim Harrington An Archaeological and Historical Survey of Old Fort Park, Fort Pierce, Florida *AHC Technical Report #429*
- 2001 Trias, Ramon, Tim Harrington, Trent Greenan, and Celin Hardan *Fort Pierce: A Town in Florida* Department of Development, City of Fort Pierce, Florida
- 2000 Trias, Ramon, Tim Harrington, Trent Greenan, and Mario Rubio *Brick and Masonry Fort Pierce* Department of Development, City of Fort Pierce, Florida
- Trias, Ramon, Tim Harrington, Trent Greenan, and Mario Rubio *Wood Vernacular Fort Pierce* Department of Development, City of Fort Pierce, Florida
- 1998 Trias, Ramon, Tim Harrington, Trent Greenan, and Celine Hardan *Mediterranean Fort Pierce* Department of Development, City of Fort Pierce, Florida

Professional Affiliations

Florida Humanities Council
Florida Trust for Historic Preservation
Florida Association of Museums
National Trust for Historic Preservation

STATEMENT OF QUALIFICATIONS



ENGINEERING & TESTING, INC.

Address: 250 S.W. 13th Avenue • Pompano Beach, Florida 33069

Phone: (954) 781-6889 • (561) 998-7002 • (772) 785-8667

Fax: (954) 784-8550

Email: floridaengineering@gmail.com • contactus@fla-eng.com

Website: www.fl-eng.com

OVERVIEW

Florida Engineering & Testing, Inc. (FE&T) is a multi-disciplinary engineering and consulting services firm offering environmental engineering, geotechnical engineering, construction materials testing, special inspections, project management, and consulting. Since our inception in 1994, FE&T has continued to grow to meet the needs of our diverse and changing client base. We currently provide consulting services to both the public and private sectors focusing on residential, commercial, educational, and aviation projects. Our engineering and testing operations focus on the tri-county area, but our service extends throughout all of South Florida.

Our team of qualified professionals has utilized their experience to create a reputable and reliable engineering and testing firm. Our growth can be attributed directly to the quality of service and the satisfaction and appreciation of our wide range of clientele. FE&T's personnel work as a team by utilizing their experience, education, training and certifications to provide our clients with quality engineering services in a cost effective manner.

The Florida Engineering & Testing, Inc. "Team" consists of:

- Registered Professional Engineers (PE)
- Engineers In Training (EIT)
- Special Inspectors
- Roof Consultants
- Roof Testing Technicians
- Material Testing Project Managers
- Engineering Field Technicians
- Certified Environmental Assessors
- Certified Laboratory Management
- Laboratory Technicians

GEOTECHNICAL SERVICES

FE&T provides a full range of geotechnical services for varying clientele. We own and operate our own drilling equipment and support vehicles. FE&T specializes in fast, friendly and efficient service with quick turnaround time for performing your subsoil investigations (soil borings), monitoring well installations, and exfiltration (hydraulic conductivity) tests. FE&T provides foundation recommendations and geotechnical analysis for support of all types of structures ranging from high rise condominiums, office warehouses, wastewater treatment plants, hospitals, roadways, swimming pools, privacy walls, to gazebos. The following is a partial list of services:

- Auger Borings
- Standard Penetration Tests Borings
- Dynamic Cone Penetration Borings
- Soil Classifications
- Organic Contents
- Sieve / Grain Size Analysis
- Hydraulic Conductivity/Exfiltration/ Percolation Tests ("K" Value)
- Monitoring Wells
- Foundation Recommendations
- Pavement Recommendations
- Moisture Contents

**Florida Engineering & Testing, Inc.'s Corporate Office is located
at: 250 S.W. 13th Avenue • Pompano Beach, Florida 33069
Phone: (954) 781-6889 • Fax: (954) 784-8550**



CERTIFICATIONS & ACCREDITATIONS

Florida Engineering & Testing, Inc., has been a member of many associations and has several certifications/accreditations. The following is a brief list of the aforementioned:

- **Florida Department of Transportation (FDOT) Qualified Laboratory**
Laboratory Number: I04036
- **Quality Assurance Testing Laboratory Accredited by the Following:**
Construction Materials Engineering Council, Inc. (CMEC)
Miami Dade County Bldg. Code Compliance Office
- **Minority/Women Business Enterprise certified by the following :**
State of Florida- Office of Supplier Diversity (M/WBE)
South Florida Water Management District (SBE)
School District of Palm Beach County (M/WBE)
Broward County Public Schools (W/MBE)
Broward College (SDB)
- **County Business Enterprise (CBE) certified by:**
Broward County Office of Economic and Small Business Development

Note: Current Certificates Can Be Provided Upon Request



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Pompano Beach, FL 33069



Mark A. Mesiano, P.E.
Principle Engineer

Mr. Mesiano has over 25 years of experience in the construction industry. He has extensive experience in program management in all phases of construction. His expertise includes Quality Assurance/Quality Control Manager and Threshold Inspector services for airports, highways, sports stadiums/arenas, power plants.

Select Projects:

- E470 Highway project in Colorado - Resident Project Manager/PE for all QC testing of Soils, Concrete & Asphalt for Segments I, II, and III (29 miles of 4 lane toll highway, with 30 bridge structures). Responsibilities included overall management for all field, laboratory, & administrative operations including managing field/laboratory technicians from a minority partner. Note: Project required a **fully equipped on-site laboratory** with Soils, Concrete & Asphalt testing capabilities (project utilized Superpave asphalt pavement mixes and an on-site laboratory equipped with gyratory compactor & nuclear ovens for asphalt content). The project won the following awards:
 - 1998 & 1999 National Asphalt Pavement Association – Quality in Construction Award for Segments II and III
 - 1998 Colorado Asphalt Pavement Association - Best in Colorado 120th Avenue to Parker Road (Segments I, II, and III)
 - 1999 American Concrete Pavement Association - Segments II and III Concrete Paving
- Tampa International Airport South Parking Garage - Project Manager for all materials testing for the new 6 level parking garage structure with 11 acre footprint, totaling approximately 66 acres of concrete parking deck. Responsible for supervising several resident full-time technicians and laboratory testing of soils and concrete.
- Tampa International Airport – Resident Inspector responsible for inspections and testing of Airside “F” Terminal Building, Airside “F” ATS, and Airside “F” Loading Bridge Caissons.
- Ft. Lauderdale Executive Airport: Taxiway "Alpha" Relocation – Project Manager for soil and concrete testing services.
- Miami International Airport Mover APM System – Concrete Testing Services.
- Palm Beach International Airport: Galaxy Hangar “H” – Project Engineer responsible for supervising resident building inspector and testing technicians.
- St. Lucie Airport Fire Station – Project Manager for soil & concrete testing.
- Jacksonville International Airport – Project Manager for soil & concrete testing (with onsite laboratory) at Taxiway Relocations for Concourse “C”.
- Quality Control Manager: Experienced in revising and updating Quality Control Manuals and the set-up and accreditation of multiple laboratories for AASHTO/FDOT/USACOE/CMEC accreditations including initial and recertification inspections.

Education:

B.S. Civil Engineering,
University of South Florida,
1990

Professional Registration:

Professional Engineer, Florida
Registration No. 48202

Professional Engineer,
Colorado, Registration No.
31593 (inactive)

Technical Certifications:

- Florida DOT Pre-stressed Concrete Inspector
- Radiation Safety Officer and Instructor, PSI, Inc.
- Structural Masonry Inspector, FL Concrete & Products Association (expired)
- Nuclear Gauge Training and Safety, Earthworks Instrumentation, Inc.
- Concrete Field Testing Technician - Level I, American Concrete Institute (expired)
- Certified Engineering Technician - Level II Soil, Concrete, Asphalt Testing, National Institute for Certification in Engineering Technologies (NICET) (inactive)



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www.floridaengineeringandtesting.com
250 S.W. 13th Avenue
Pompano Beach, FL 33069



Professional Certifications:

- CTQP Earthwork Constr. Inspection – Level 1
- CTQP Concrete Field Technician – Level 1
- CTQP Qualified Sampler Technician
- CTQP Aggregate Base Testing Technician
- CTQP Concrete Lab Technician – Level 1
- CTQP LBR Technician
- ACI Aggregate Testing Technician – Level 1
- ACI Aggregate Base Testing Technician
- ACI Concrete Laboratory Testing Technician- Level 1
- ACI Concrete Strength Testing Technician
- ACI Concrete Field Testing Technician – Grade I
- Florida Structural Masonry Inspector
- Georgia Structural Masonry Inspector
- Georgia Erosion Control Inspector Level I B
- 40 Hour OSHA
- Nuclear Gauge Training
- Radiation Safety
- Nuclear Gauge Operation
- Nuclear Gauge Transport

PAUL M. TENINTY CMT Field & Laboratory Supervisor

Mr. Teninty has over 20 years of construction materials testing, inspection and construction related experience. He is highly skilled in supervising all work, paperwork, equipment, etc. for field & laboratory technicians in regards to construction materials testing, laboratory testing, and inspection/monitoring projects. His expertise includes performing testing and laboratory work as needed, including compaction testing, various types of concrete testing, structural masonry inspections, auger cast piling inspections, vibrofloatation inspections, demucking inspections, earthwork monitoring, roof uplift testing, field withdrawal resistance testing, and various types of soil/concrete laboratory testing including grain size analysis, moisture density (proctor) tests, limerock bearing ratio (LBR) tests.

Select Projects:

- Ft. Lauderdale International Airport Parking Garage – Piling Inspector for Driven/Auger-Cast/Drilled Shaft
- Broward Regional Park, Lauderhill, Florida – Soil Testing Technician, density testing for large park with amphitheater, playing fields, etc.
- Silver Falls at Miramar, Florida – Earthwork Inspector (full time) for 275 acres of site development
- Botanica, Jupiter, Florida – Resident Earthwork Inspector for 300-400 acres of site development
- Home Depot, various locations – Project Manager for testing and inspections
- Belk Department Store, various locations – Project Manager for testing and inspections
- CVS Pharmacy, various locations – Project Manager for testing and inspections



BAXTER & WOODMAN
Consulting Engineers



TAB E: Previous Performance on Related Projects

LOXAHATCHEE RIVER DISTRICT, FL

MASTER LIFT STATION NO. 1 REHABILITATION

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 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.

The project is currently under construction. The project was bid with a construction cost of \$1,671,444.

HIGHLIGHTS:

COMPLETED: In Progress

REFERENCE:

Mr. Kris Dean, PE
Deputy Executive Director/Director of Engineering
Loxahatchee River District
2500 Jupiter Park Drive
Jupiter, Florida 33458
P: 561-747-5700 x110
F: 561-747-9929
E: kris.dean@loxahatcheeriver.org



PALM BEACH COUNTY WATER UTILITIES DEPARTMENT WESTERN REGION OPERATIONS CENTER

Palm Beach County Water Utilities Department hired Baxter & Woodman to provide comprehensive site planning, design, permitting, and construction administration and inspection services for their new Western Region Operations Center (WROC) in Belle Glade, Florida.

A Preliminary Design Report was completed which established the client needs and the design parameters for the various site elements. This included building floor plan needs and requirements; generator capacity requirement calculations and design improvements required to provide emergency generator capacity for the WTP #11 and the Operations site, and capacity requirements for the site infrastructure.

Engineering and architectural design, permitting, bidding, and construction services for the buildings and overall site improvements were provided and the project has been constructed. The Warehouse Building includes approximately 6,600 sf of storage area, 1,470 sf shop keeper area, and a 3-bay loading dock. The Warehouse Building connects to a 7,020 sf Shop Building which includes a central IT room serving the compound, locker room facilities, office space, meter shop and pump wash facilities. A Vehicle Wash, chiller yard, and Generator Building are also located at the site. Covered storage pavilions for portable generator storage and for materials storage, site improvements including paving, drainage, water, wastewater, site electrical, CATV and telecommunications systems were designed and constructed and the improvements coordinated with off-site utilities.

Baxter & Woodman provided WROC Master Project Scheduling services. The design and construction followed the Florida Green Building Coalition Commercial Building Standard in an effort to address sustainability in design. Construction cost was \$15,000,000.

HIGHLIGHTS:

COMPLETED: January 2018

REFERENCE:

Mr. Henry Melendez
Palm Beach County
Water Utilities Department
PO Box 16097
West Palm Beach, Florida 33416
561-355-3623



PALM BEACH COUNTY, FLORIDA

NROC O&M BUILDING

Baxter & Woodman (Mathews Consulting) coordinated the design and bidding services for the construction of a 5,515 square-foot Operations and Maintenance Building for Palm Beach County Water Utilities Department. The building was located at their Northern Region Operations Center in the Village of Royal Palm Beach. Prior to start of the design, Baxter & Woodman coordinated with Palm Beach County for the site plan, landscape plan, and architectural renderings submitted to the Village for approval.

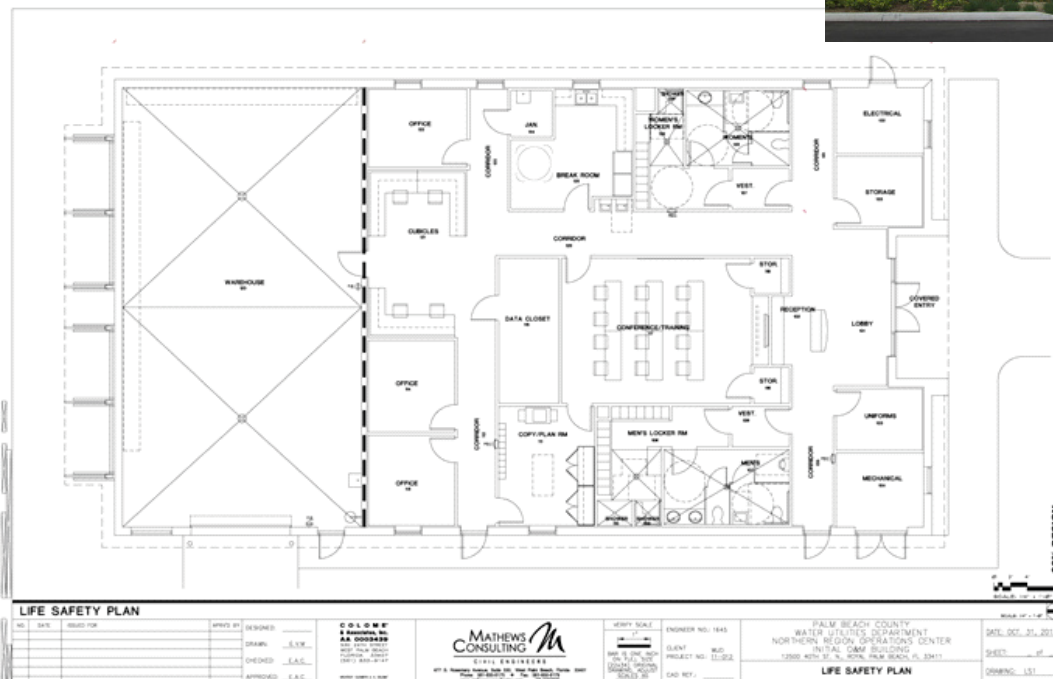
Based upon initial project scope meetings with department staff, Baxter & Woodman's design team prepared a preliminary design report which included a floor plan with staff identified building use requirements. Following final approval of the floor plan, final design plans, specifications and construction cost estimates for the project were prepared which included civil, building architectural, structural, electrical (building and site lighting), security, communications, and HVAC/plumbing improvements for the O&M Building. The scope also included design and permitting for a wastewater lift station to serve the site and bidding services for the project. Construction of the project has been completed with a construction cost of \$1.68M.

HIGHLIGHTS:

COMPLETED: 2015

REFERENCE:

Ms. Kyrstin Berntsen, PE
Director of Engineering
Palm Beach County
Water Utilities Department
PO Box 16097
West Palm Beach, Florida 33416
561-684-4000
kbertsen@pbcwater.com



PALM BEACH COUNTY, FLORIDA

NROC O&M BUILDING CMS

Following completion of the design of the Northern Region Operations Center (NROC) O&M Building for Palm Beach County Water Utilities Department, Baxter & Woodman (Mathews Consulting) was authorized to proceed with the construction management and inspections services for this 5,500 square foot facility. Baxter & Woodman is providing construction management services for the project including the following tasks:

- Facilitate progress meetings
- Review shop drawings
- Provide interpretation of plans and specifications
- Resident Project Representation for field inspections
- Engineering and specialty inspections
- Startup and testing services
- Substantial and Final Completion inspections
- Certification of Construction Completion
- AutoCAD Record Drawings of the project

Bids were opened in August 2013 with a construction cost of \$1,683,729. Construction of the project was completed in February 2015.



HIGHLIGHTS:

COMPLETION DATE: 2015

REFERENCE:

Mr. Jim Stiles
Director of Utilities
Palm Beach County
Water Utilities Department
8100 Forest Hill Boulevard
West Palm Beach, Florida 33413-3336
(561) 493-6000
(561) 493-6083 (Fax)



PALM BEACH COUNTY WATER UTILITIES

WASTEWATER REPUMP STATION 8310 REHABILITATION

Palm Beach County Water Utilities selected Baxter & Woodman to provide an Operating and Condition Assessment of the Wastewater Repump Station 8310 located in the City of South Bay.

Baxter & Woodman were to identify potential future upgrades and improvements to the existing station. Baxter & Woodman performed interviews of key staff to understand operating and maintenance issues and performed multiple site visit to visually inspect the condition of the station and better understand the conditions that maintenance staff encounter while working on the station.

A technical memorandum was generated describing all aspects of the existing pump station including mechanical systems, electrical systems, structural systems and site conditions including an evaluation of equipment useful service life and proposed improvements to rectify the concerns of the maintenance staff visits to improve pumping operations and an estimate of probable cost to implement the improvements. Fee: \$45,488.58. Estimate of Probable Cost: \$1,600,00.

HIGHLIGHTS:

COMPLETION DATE: TBD

REFERENCE:

**Mr. Henry Melendez
Palm Beach County
Water Utilities Department
PO Box 16097
West Palm Beach, Florida 33416
561-355-3623**



PALM BEACH COUNTY WATER UTILITIES

MASTER RE-PUMP STATION 9-N

Baxter & Woodman to provided data collection, engineering design, permitting and bidding services for the upgrades and improvements to Master Station 9-North which is located in Boca Raton. The improvements included the replacement of gate valves, check valves, variable frequency drives, electric panels, automatic transfer switch, emergency generator, louvers, HVAC, exterior doors, hardening of building, stucco and painting of building, addition of station bypass connections and fifth inline booster pump. Fee: \$190,517.49. Estimate of Probable Cost: \$2,800,000. Amendments: 1 - \$75,896.72.

HIGHLIGHTS:

COMPLETION DATE: TBD

REFERENCE:

Mr. Henry Melendez
Palm Beach County
Water Utilities Department
PO Box 16097
West Palm Beach, Florida 33416
561-355-3623



PALM BEACH COUNTY WATER UTILITIES

IMPROVEMENTS TO LIFT STATIONS 393, 1023 AND 8168

Baxter & Woodman (Mathews) provided engineering services to improve the conditions of three (3) existing lift stations throughout Palm Beach County. Existing Lift Station 393 was located along the northbound lane of Drexel Road within the County right-of-way in West Palm Beach.

PBCWUD desired to relocate the lift station into an easement, outside of the road right-of-way. A location was identified west of the west right-of-way line. Baxter & Woodman designed the demolition of the existing lift station, conversion of the existing wetwell to a manhole, installation of the new lift station and associated equipment, gravity sewer main and new force main to tie to the new lift station.

Lift Station 1023 is a dry pit/submersible type lift station located between the rear lots of two adjacent residential properties. PBCWUD requested that the existing lift station be modified to meet PBCWUD's latest standard for lift stations. Baxter & Woodman redesigned the existing lift station by utilized the existing wetwell for the new lift station and demolishing and abandoning the existing dry pit.

Lift Station 8168 is located in Belle Glade within a residential development currently known as Abidjan Estates. The lift station required rehabilitation to the existing wet well, valve vault, electrical, and instrumentation and controls. PBCWUD requested that Baxter & Woodman reconfigure the site to meet PBCWUD's latest standards and to ensure the pumps meet the current demands. Fee: \$191,739.31 (Original). Estimate of Probable Cost: \$1,800,000. Amendments: 1 \$19,443.53.

HIGHLIGHTS:

COMPLETION DATE: TBD

REFERENCE:

**Mr. Henry Melendez
Palm Beach County
Water Utilities Department
PO Box 16097
West Palm Beach, Florida 33416
561-355-3623**



CITY OF WEST PALM BEACH, FL

LIFT STATIONS NO. 45 AND 51 REHABILITATION

Baxter & Woodman provided engineering services to rehabilitate existing lift stations No. 45 and 51 from “can” type stations to submersible stations which are located within the median of Australian Avenue. The work included providing structural modifications to the existing wet wells and replacing the existing control panel and remote telemetry units. Rerouting of gravity sewer mains, and extensive restoration of pavement was required to complete the design. At lift station No. 51, the existing emergency diesel driven standby generator was replaced with a new generator unit. Estimate of Probable Cost: \$1,700,000. Fee: \$92,875.00. Amendments: 0.

HIGHLIGHTS:

COMPLETION DATE: TBD

REFERENCE:

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



CITY OF BOCA RATON, FL

LIFT STATION NO. 179 REHABILITATION

Baxter & Woodman provided an engineering services to rehabilitate the existing lift station to accommodate additional flows from future development. The existing lift station was located within an existing utility easement on private property, requiring the footprint of the new lift station to be minimized as much as possible. To accommodate the future flows, a completely new lift station would be required. Baxter & Woodman designed a new lift station adjacent to the old lift station, modified the existing wet well to be a manhole, and abandoned portions of the old easement to add new easement for a near net zero increase of easement to the approval of the private property owner. The project also included approximately 425 linear feet of horizontal directional bore of a 10" HDPE force main and surface restoration of the intersection of Congress Avenue and Broken Sound Parkway. Estimate of Probable Cost: \$1,200,000. Fee: \$93,203.08. Amendments: 1, \$3,878.66.

HIGHLIGHTS:

COMPLETION DATE: TBD

REFERENCE:

Ms. Talia Garcia
Utilities Engineering Manager
City of Boca Raton
401 Clematis St. 4th Floor
Boca Raton, Florida 33431
561-338-7307
tgarcia@ci.boca-raton.fl.us



FLORIDA KEYS AQUEDUCT AUTHORITY

RAMROD KEY PUMP STATION – FUEL SYSTEM

Baxter & Woodman provided engineering services to for the improvements to the Ramroad Key Pump Station fuel system. The work included the demolition of the existing two diesel bulk storage tanks and cast-in-place concrete containment areas and installation of an owner supplied double walled, 10,000 gallon diesel bulk storage tank. Installation of a day tank to feed the emergency diesel driven pump and replacement of an existing day tank that serves the emergency diesel generator. All fuel lines between the new diesel bulk storage tank and day tanks were replaced with new stainless steel piping. Electrical and instrument and controls were upgraded to accommodate the new equipment. A covered parking area was designed in place of the demolished diesel bulk storage tanks.



Existing bulk fuel storage tanks being demolished.



Owner supplied 10,000 gallon bulk fuel storage tank.



Emergency diesel driven pump that a new day tank will be provided for.

HIGHLIGHTS:

COMPLETION DATE: 2019

REFERENCE:

**Ms. Jolynn Reynolds, PE
Manager of Engineering
Florida Keys Aqueduct Authority
1100 Kennedy Dr.
Key West, Florida 33040
305-797-8195
joreynolds@fkaa.com**



Existing Day Tank to be replaced.



Existing emergency generator that the Day Tank being replaced serves.

Previous Performance On Related Projects

TITLE AND LOCATION <i>(City and State)</i> Energy Center Upgrading: Electrical Switchgear, Emergency Paralleling Gear and Emergency Generators, Miami, FL	Electrical Engineering Staff:	
	Mel Garcia, P.E., LEED AP	Tito Alvarado

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Public Health Trust/Jackson Memorial Health	b. POINT OF CONTACT NAME Douglas Rodriguez, Engineering II	c. POINT OF CONTACT TELEPHONE NUMBER 305-585-6539
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Energy Center Upgrading: Electrical Switchgear, Emergency Paralleling Gear and Emergency Generators at Jackson Memorial Hospital. Services provided at several buildings which are fully functional and occupied by patients, staff and visitors 24 hours a day/7 days a week/365 days a year. Upgrades, renovations and modifications under this contract performed will no service interruptions. The majority of these improvements took place within the critical care areas, trauma and other areas where patients are on life saving or life sustaining equipment. Projects to include:

Utility Center:

- Temporary portable generator integration – 2 RFIs with 3 day turnaround
- Parallel Essential and Non-Essential 4160V Switchgear
- Install new 4160V, 2 MW, diesel fuel generator
- Add 4 new feeder positions in new switchgear line-up (to supply Energy Center, Trauma, North Wing)
- Increase fuel storage supply for a total of 5 generators (8.2MW)

Energy Center:

- Install two new 3000 kVA, 4160V-277/480V Unit substations
- Transfer existing emergency load to new switchgear
- Remove 4 existing 900 kW generators
- Provide new HVAC for existing and new switchgear rooms
- Remove existing 50,000-gallon diesel fuel tanks

Trauma Center

- Install new 2000 kVA, 4160V-277/480V Unit substation
- Relocate existent emergency switchgear from basement to above flood plane
- Transfer all emergency load to new switchgear

Campus-wide

- Provide new Power Monitoring System on all emergency load supplied by the reworked Utility Center Generators (approx. 60 ATS's)
- Install new 4160V underground feeders to the Energy Center and Trauma Building
- Install empty duct bank for future 4160V feeder to the North Wing



Previous Performance On Related Projects

TITLE AND LOCATION <i>(City and State)</i> Main Detention Center Generator replacement Palm Beach County	Electrical Engineering Staff: Mel Garcia, P.E., LEED AP	
	Benjamin Dezayas, P.E., LEED AP	Tito Alvarado

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Palm Beach County	b. POINT OF CONTACT NAME Fernando Deldago, Director of Facilities Services, FDO	c. POINT OF CONTACT TELEPHONE NUMBER 561-233-0221
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The scope of the project included the replacement of three 800kW generators with 2 - 2,250kW generators. Replacement of paralleling and distribution switchgear. In addition, we placed additional 200,000SF building on new EPSS. Placed two chillers of Central Plant on new EPSS. The facility was occupied and operational throughout the duration of the project. The cost of this project was \$5.5M.



Previous Performance On Related Projects

TITLE AND LOCATION (City and State) Federal Reserve Bank of Atlanta Miami Brach Generator Replacement	Electrical Engineering Staff: Mel Garcia, P.E., LEED AP	
	Benjamin Dezayas, P.E., LEED AP	Tito Alvarado

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Federal Reserve Bank of Atlanta	b. POINT OF CONTACT NAME Mr. John Quillen	c. POINT OF CONTACT TELEPHONE NUMBER john.quillen@atl.frb.org
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Engineering services to replace the existing 1500kW generator at a new location in the vicinity of the abandoned 250kW generator. Removal of the existing 250kW and 1500kW generators, outdoor switchgear, and portions of the existing feeders, busways, remote radiator, and fuel supply. Installation of new 1500kW generator in the storage area presently housing the 250kW generator and AHU 12. The new generator uses conventional engine radiator discharge; make-up air will be via roof penthouse ventilation units. \$94,000.

Scope of non-generator related HVAC work which is required to create space for the 1500kW generator:

- a. Replacement and relocation of existing AHU 12 supplying the MDF room adjacent to the existing UPS battery room (the design of the UPS replacement places the UPS and the new batteries in the same room as the existing UPS).
- b. Reconfiguring existing AHU-12 ductwork to supply, in addition to the areas now served by 12, the new UPS room.
- c. Removal of AHU 12A, presently supplying the UPS room and UPS battery room.



BAXTER & WOODMAN
Consulting Engineers



TAB F: Current & Project Workload / Time Schedule

CURRENT & PROJECT WORKLOAD/TIME SCHEDULE

PERSONNEL WORKLOAD CHART

Baxter & Woodman Key Personnel	Current Commitments	Anticipated Completion Date	Availability for City's Project
Rebecca Travis, PE, ENV SP Project Director	Lauderdale-By-The-Sea El Mar Dr Improvements	December 2020	80%
	Green Cay Park Ph2 Site Plan & DRO	August 2020	
	PBCWUD Energy Isolation & Safety Procedures WTP#2	September 2020	
Sira "Jockey" Prinyavivatkul, PE Design Project Manager Role: Civil and Mechanical Engineering	Lauderdale-by-the-Sea: Palm Club Sewer Project	October 2020	50%
	Palm Beach County Water Utilities Department: Operation and Condition Assessment of Repump Stations System 5 and 9-South	April 2021	
	Palm Beach County Water Utilities Department: Operation and Condition Assessment of Repump Station 4100	April 2021	
	Palm Beach County Water Utilities Department: Flow Analyses of Repump Stations System 5, 9-South and 4100	May 2021	
Mark Dachsteiner, PE CEI Project Manager Role: Coordinating of the survey teams, Site Investigation, Data Collection, Records Research, Bidding, and Construction Admin.	Palm Beach County Water Utilities Department: Repump Station No. 8310 Upgrades and Improvements	January 2021	50%
	Monroe County: Roadway and Drainage Improvements-Design and Construction Management- PM- 15%	December 2021	
	Delray Beach: 5 projects Public Outreach and Construction Administration- 15%	September 2021	
Courtney Marshall, PE Project Engineer/Grant Funding Coordinator Role: Utility Coordination, Geotech Coordination, Bidding Assist, Grant Assistance/Reporting during Design & Construction	City of Pompano Beach Gateway Drive and Kendall Lakes Drive CEI	June 2021	60%
	Lauderdale-by-the-Sea: NPDES Permit Annual Report	June 2020	
	Lauderdale-by-the-Sea: Stormwater Master Plan	September 2020	
Anthony Bianchin, PE, PLS Surveyor Role: Land Surveying	Lauderdale-by-the-Sea: El Mar Drive Improvements	December 2020	75%
	Village of Planinfield – Resident Construction Engineering	September 2020	
	Village of Beecher – Penfield Street (Phase II)	August 2020	
2-Man Survey Crew	Village of Somers – Water & Sewer Service to Twani	July 2020	100%
Charles A Brunner, S.E., P.E. Structural Engineer Role: Structural Engineering	Loxahatchee River Environmental Control District, IQ-511 Pump Station Modifications	June 2020	50%
	Loxahatchee River Environmental Control District, Lift Station Fall Protection Improvements	July 2020	
	City of Elmhurst Water Reclamation Facility, North Digester Building, Digested Sludge Pumping and Excess Flow Building Improvements	September 2020	
	Village of Western Springs, Elevated Storage Tank Repainting	October 2020	
	Downers Grove Sanitary District, Sludge Storage Building	December 2020	
Gartek Engineering Corporation Key Personnel	Current Commitments	Anticipated Completion Date	Availability for City's Project
Mel Garcia, P.E. Project Principal in Charge Role: Develop Solutions, Coordinate Staff, High Level Equipment & Protection Selection, Electrical Configuration. Gartek Point of Contact, Participation in Design and Construction Team Meetings.	PBCWUD Pumping Station 9N - Upgrade	June 2021	40%
	Federal Reserve Bank Jacksonville Branch - Replace Generators	January 2022	
	Port of Miami Cruise Terminal V - Electrical Peer Review	July 2020	
	Federal Reserve Bank Birmingham Branch - Replace UPS	August 2020	
	PBC Main Detention Center - Generator Enhancement Project	June 2021	
Tito Alvarado Electrical Engineer Role: Field Surveys, Coordination with FPL and Manufacturers on OEM Support of Existing Equipment to Remain, Equipment Selection, Short-circuit, Coordination, Arc Flash Studies, Shop Drawing Review, Observation of the Work during Construction.	PBCWUD Pumping Station 9N - Upgrade	June 2021	50%
	Federal Reserve Bank Jacksonville Branch - Replace Generators	January 2022	
	Federal Reserve Bank Miami Branch - Replace UPS	October 2021	
	City of Miramar - Ansin Sports Complex Track and Field Illumination	February 2021	
Jose Fernandez Electrical Engineer Role: Field Surveys, Equipment Selection, Shop Drawing Review, Observation of the Work during Construction. Electrical Design.	PBC FLEET Building - 100% Building on Generator, Study	October 2020	60%
	PBC Main Detention Center - Generator Enhancement Project	December 2021	
	Bluebeard Beach Club - Hurricane Reconstruction	October 2020	
	PBC EOC UPS Replacement	December 2020	
	PBC WUD Repump Station 8310	February 2022	
Robert Hansen, P.E. Mechanical Engineer Role: Field Surveys, HVAC Design.	Elysian Resort - Hurricane Reconstruction	February 2021	50%
	PBC Main Detention Center - Generator Enhancement Project	December 2021	
	Miami International Airport - Satellite E Re-roofing	December 2020	
	PBC EOC UPS Replacement	December 2020	
Julian Puerta Plumbing and Fire Protection Engineer Role: Field Surveys, Plumbing, Fuel, and Fire Protection Design.	PBSO District 6 Chiller Replacement	June 2021	50%
	PBC Main Detention Center - Generator Enhancement Project	December 2021	
	West Indies Club - Hotel redevelopment	July 2021	
	Watermark Resort	December 2022	
	PBC Fire Stations 26, 27, 51. PBSO District 4 Generator Replacement or new generators	August 2021	

CURRENT FIRM WORKLOAD CHART

City of Boca Raton A1A Neighborhood Improvements
City of Boca Raton Wastewater Lift Station No. 179 Rehabilitation
City of Boca Raton System Wide Force Main Model
City of Boynton Beach NE 3rd Street Extension
City of Boynton Beach Forest Park Traffic Study
City of Delray Beach Delray Shores PH III & IV
City of Delray Beach WTP Rehab
City of Delray Beach Lake Ida FM ARV
City of Delray Beach Intracoastal Waterway Crossings
City of Delray Beach Osceola Park Improvements
City of Delray Beach Delray Shores PH III & IV
City of Delray Beach Delray Alley Enhancement LAP Project
City of Delray Beach North Repump Inspection (AMPS)
ECRWRF Electrical Maintenance Testing - Effluent Pump Station & Full Scale
Florida Keys Aqueduct Authority Pipeline Support Remediation
Town of Gulf Stream Minor Drainage Improvements
Town of Gulf Stream 2019 Wastewater Feasibility Study
Town of Gulf Stream SR A1A Water Main Replacement - Phase 2
Town of Highland Beach NPDES Annual Report
Town of Highland Beach Sustainability Assessment
Town of Lantana Consumer Confidence Report
Town of Lantana High Service Pump Improvements
Town of Lantana LS Rehab
Town of Lantana NPDES Report - 2018/2019
Town of Lantana 10-Yr Water Supply Plan
Town of Lantana 4-Log Response
Town of Lauderdale-By-The-Sea Terra Marr Drainage Improvements
Town of Lauderdale-By-The-Sea NPDES Permit
Town of Lauderdale-By-The-Sea ADA Ramp Compliance
Town of Lauderdale-By-The-Sea El Mar Drive
Town of Lauderdale-By-The-Sea Palm Club Sewer Project
Town of Lauderdale-By-The-Sea Stormwater Master Plan
Town of Lake Park Lake Shore Dr Drainage Improvements
Loxahatchee River Environmental Control District Alt A1A 16 Inch Forcemain Expansion
Loxahatchee River Environmental Control District LS Fall Protection Improvements
Loxahatchee River Environmental Control District IQ-511 Pump Station Piping Improvements
Loxahatchee River Environmental Control District Jupiter Farms Elementary School SSS
Loxahatchee River Environmental Control District A1A 24-inch FM Cleaning & Inspection
Loxahatchee River Environmental Control District Olympus Dr FM & Low Pressure Sewer Replacement
Monroe County Koehn and Big Pine Shores Road Improvements
Palm Beach County 5 Lift Station Rehab
Palm Beach County Improvements to Master Repump Station 9-North
Palm Beach County LS 393, 1023, 5133 and 8168 LS Rehab
Palm Beach County Repump Station No. 8310 Operating and Condition Assessment
City of Pembroke Pines FSU
City of Pembroke Pines West Campus
City of Pompano Beach Gateway Drive Stormwater Improvements
City of Pompano Beach Kendall Lake Drainage
Seacoast Utility Authority Lake Shore Dr. WM and Sanitary Sewer
Solid Waste Authority Palm Beach County Admin. and Vehicle Maint. Bldg Elec. Improvements
Solid Waste Authority Palm Beach County Con Ser Auth 1 - Electrical Improvements
City of Tamarac Water Master Plan Update
City of West Palm Beach Industrial Pretreatment Services - 2019
City of West Palm Beach Nottingham Improvements
City of West Palm Beach WW Master Plan 2019 Update

PROJECTED FIRM WORKLOAD

Baxter & Woodman is available to begin the work tasks associated with this Contract immediately. Our experienced staff permits us to commit all of our necessary resources to the City of Hollywood. Baxter & Woodman is committed to assign the most qualified, technical expertise to this project assignment, meet the required schedules and budgets, and produce exceptional project results.

Our Project Director and Managers will be fully dedicated to this Contract and to the City to confirm that all project tasks are performed on time and within budget. Our Project Director will be available for the duration of this Contract.

We are immediately available to provide exceptional engineering design, and construction engineering and inspection services to the City of Hollywood. We will devote required resources and personnel to each project that is required to complete the project tasks efficiently, with the highest quality of standards. All key team members that will be involved in this project have availability for the duration of this project.



BAXTER & WOODMAN
Consulting Engineers



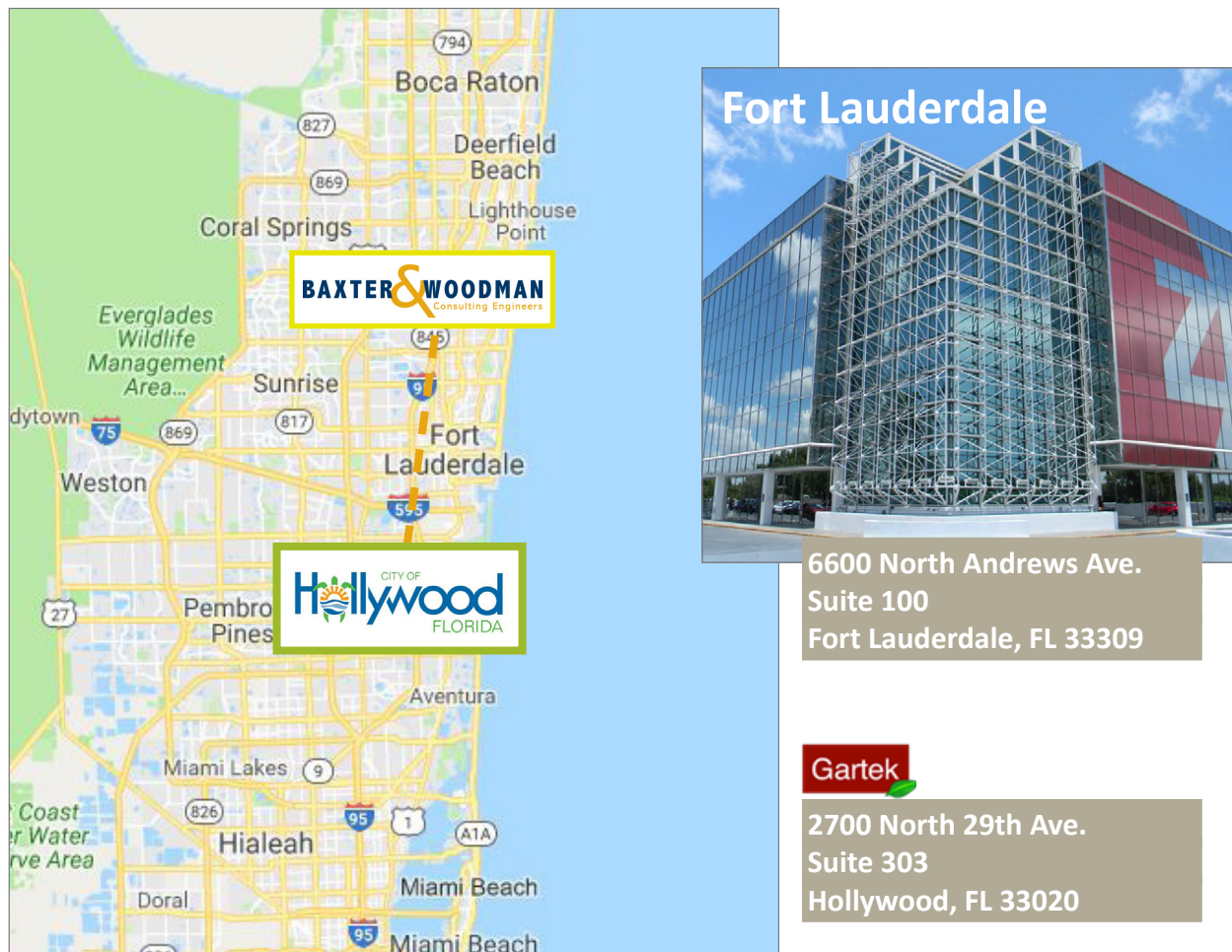
TAB G: Principal Location

LOCATION

Baxter & Woodman provides service to Broward County clients from our nearby Fort Lauderdale location. We pride ourselves on being responsive and responsible to clients at all times, and our current office locations will allow us to meet whenever the City wishes.

Services for the City's project will be provided primarily from Baxter & Woodman's **Fort Lauderdale** location, with assistance from staff in our West Palm Beach office, as needed.

Baxter & Woodman's principal Fort Lauderdale office is 14.9 miles (20 minutes) from the South Regional Wastewater Treatment Plant (SRWWTP), while Gartek's office in Hollywood is less than 3 miles away.





BAXTER & WOODMAN
Consulting Engineers



TAB H: Ability to Complete Project on Time/Budget

ABILITY TO COMPLETE PROJECTS ON TIME/BUDGET

COST CONTROL PERFORMANCE

Baxter & Woodman is committed to producing high quality, cost efficient products within required time frames. The Project Managers and Project Director of the firm continually monitor the design and construction costs of each project. Also, 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. The table below is a record of recent cost estimates which shows 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 Was
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 Delray Beach	24" Reclaimed Water Main	\$321,522	\$271,364
City of Delray Beach	Country Club Acres Infrastructure Imp.	\$1,515,811	\$1,377,027
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 Imp.	\$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 Imp.	\$837,441	\$766,175
City of Tamarac	Southgate Boulevard Streetscape Imp.	\$1,499,717	\$1,239,469
City of Tamarac	McNab Road Water Main Improvements	\$477,250	\$486,832
City of West Palm Beach	Monroe Drive Infrastructure Improvements	\$7,077,975	\$5,984,486
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
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 Lantana	Raw Water Supply Well No. 11	\$755,000	\$631,500
Town of Lantana	Raw Water Supply Well No. 12	\$400,000	\$341,400
Town of Highland Beach	A.1.A. Water Main Replacement	\$3,200,000	\$2,714,707
Average (under engineer's estimate)			-10.47%

Ability To Complete Projects On Time/budget

Baxter & Woodman Projects and Clients	Amendments	Total	Notes	Reference
Master Lift Station No. 1 Rehabilitation Loxahatchee River Environmental Control District, FL	0	- Cost: \$1,671,444. - Fee: \$217,205.30		Mr. Kris Dean, PE, Deputy Executive Director/Director of Engineering, Loxahatchee River Environmental Control District, 561-747-5700 ext.110
Wastewater Repump Station 8310 Rehabilitation Palm Beach County Water Utilities, FL	0	- Estimate of Probable Cost: \$1,600,00. - Fee: \$45,488.58.		Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623
Master Repump Station 9-N Palm Beach County Water Utilities, FL	1: (\$75,896.72) - Estimate of Probable	- Estimate of Probable Cost: \$2,800,000. - Fee: \$190,517.49.	Client directed change in scope.	Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623
Improvements to Lift Station 393, 1023 and 8168 (Abidjan Estates) Palm Beach County Water Utilities, FL	1: (\$19,443.53)	- Estimate of Probable Cost: \$1,800,000. - Fee: \$191,739.31 (Original).	Client directed change in scope.	Mr. Henry Melendez Palm Beach County Water Utilities Department, 561-355-3623
Ramrod Key Pump Station – Fuel System Improvements Florida Keys Aqueduct Authority, Key West, FL	0	- Construction Cost: \$710,000.00 - Actual Construction Cost: TBD - Estimate of Probable Cost: \$651,000.00 - Fee: \$66,122.30		Ms. Jolynn Reynolds, PE, Manager of Engineering, Florida Keys Aqueduct Authority, 305-797-8195
Lift Station No. 45 and 51 Rehabilitation City of West Palm Beach, FL	0	- Estimate of Probable Cost: \$1,700,000. - Fee: \$92,875.00.		Ms. Laura Le, PE, Public Utilities Administration, City of West Palm Beach, 561-494- 1093
Wastewater Lift Station No. 179 Rehabilitation City of Boca Raton, FL	1: (\$3,878.66)	- Estimate of Probable Cost: \$1,200,000. - Fee: \$93,203.08.	Client directed change in scope.	Ms. Talia Garcia, Utilities Engineering Manager, 561-338-7307

Ability To Complete Projects On Time/budget

Gartek Engineering Corporation Projects and Clients	Amendments	Total	Notes	Reference
Main Detention Center Generator Replacement, Palm Beach County, FL	0	Construction Cost: \$5,500,000		Fernando Deldago, Director of Facilities Services, FDO, 561-233-0221
Federal Reserve Bank of Atlanta, Miami Branch, Generator Replacement Federal Reserve Bank of Atlanta, Miami, FL	0	Fee: \$94,000.		Mr. John Quillen, john.quillen@atl.frb.org, (305) 471-6217
Energy Center Upgrading: Electrical Switchgear, Emergency Paralleling Gear and Emergency Generators at Jackson Memorial Hospital Public Health Trust/Jackson Memorial Health, Miami, FL	0	Construction Cost: TBD		Douglas Rodriguez, Engineering II, Public Health Trust/Jackson Memorial Health, 305-585-6539



BAXTER & WOODMAN
Consulting Engineers



TAB I: Experience Working with FEMA and State Granting Process

EXPERIENCE WORKING WITH FEMA AND STATE GRANTING PROCESS

Through extensive experience with municipal capital improvement projects, B&W has been involved and understands the requirements for grant reporting assistance. B&W has experience with grant funding from the preliminary design stages through construction. Additionally, several of our staff members hold training certifications that pertain to specific grant funding opportunities (please refer to expertise of designated staff for reference). Each grant funding program has its own particular set of requirements and reporting. B&W's previous experience and attention to detail have resulted in successful grant funding assistance as evidenced by the past projects described below:

Project Name	Owner	Funding Opportunity	Administrating Agency	B&W Grant Assistance Provided
Park of Commerce – Phase 1A	City of Lake Worth Beach	Department of Commerce Financial Assistance Grant Funding	U.S. Department of Commerce Economic Development Administration (EDA)	B&W was the Owner's Representative on this project and provided assistance to the City for grant application preparation, submittal, and reporting following award through design and construction completion.
Esquire Lake Stormwater Improvements	City of Pompano Beach	Clean Water State Revolving Fund (SRF)	Florida Department of Environmental Protection	The City was awarded SRF funding for construction of this project and B&W assisted the City with the necessary reporting and construction close-out.
Lakeshore Drive Drainage Improvements	Town of Lake Park	Hurricane Mitigation Grant Funding Program (HMGP)	Florida Division of Emergency Management	B&W designed this project and assisted the Town with the application for funding. B&W will be providing reporting assistance during construction.
5 th Avenue South Bikeway / Pedestrian Trail	City of Lake Worth Beach	FDOT Local Agency Program (LAP) Funding	Florida Department of Transportation	B&W provided assistance with reporting required during construction and construction close-out.
Seacrest Blvd. / NE 2 nd Avenue Beautification Phases II and III	City of Delray Beach	FDOT Local Agency Program (LAP) Funding	Florida Department of Transportation	B&W provided assistance with reporting required during construction and construction close-out.
Alleyway Enhancement from SE 10 th Street to South of Atlantic Avenue	City of Delray Beach	FDOT Local Agency Program (LAP) Funding	Florida Department of Transportation	B&W provided assistance with reporting and submittals during design to FDOT
2 nd Avenue South Roadway Improvements	City of Lake Worth Beach	Community Development Block Grant (CDBG) Funding	Palm Beach County Department of Economic Sustainability	B&W provided assistance with reporting required during construction and construction close-out.

Ability To Complete Projects On Time/budget

Area 12C Reclaimed Water Expansion	City of Delray Beach	Alternative Water Supply Grant Funding	South Florida Water Management District (SFWMD)	B&W assisted the City with the grant application process and reporting during construction.
Area 12C Reclaimed Water Expansion	City of Delray Beach	Division of Water Restoration Assistance Grant Funding	Florida Department of Environmental Protection (FDEP)	B&W provided assistance with reporting required during construction and construction close-out.
Reuse NE Expansion – Phase 1	City of Pompano Beach	Alternative Water Supply Grant Funding	South Florida Water Management District (SFWMD)	B&W provided assistance with reporting required during construction and construction close-out.
Reuse NE Expansion – Phase 1	City of Pompano Beach	Division of Water Restoration Assistance Grant Funding	Florida Department of Environmental Protection (FDEP)	B&W provided assistance with reporting required during construction and construction close-out.
SW 4 th Street, SW 6 th Street, SW 7 th Avenue & SW 3 rd Court Neighborhood Improvements	City of Delray Beach	Alternative Water Supply Grant Funding	South Florida Water Management District (SFWMD)	B&W is currently providing assistance with reporting required during construction and construction close-out.
Replacement of Water Distribution Lines – Phases 1 and 2	Town of Highland Beach	Clean Water State Revolving Fund (SRF)	Florida Department of Environmental Protection	The City was awarded SRF funding for construction of this project and B&W assisted the City with the necessary reporting and construction close-out.

