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Country Club*

TOWN OF BELLEAIR

REQUEST FOR QUALIFICATIONS FOR ENGINEER OF RECORD PROFESSIONAL SERVICES

DATE **5/31/2018**

JonesEdmunds 

May 31, 2018

Keith Bodeker
Construction Project Supervisor
Town of Belleair
901 Ponce de Leon Blvd.
Belleair, Florida 33756

RE: Request for Qualifications for Engineer of Record: Professional Engineering Services

Dear Mr. Bodeker and Members of the Selection Committee:

The Town of Belleair faces unique challenges as a prosperous and beautiful community in urban Pinellas County. Bordered by the Cities of Clearwater and Largo and adjacent to the intracoastal waterway, the Town's existing infrastructure – from roads and stormwater to water and wastewater – are interconnected and well established. Addressing the challenges requires coordination with neighboring municipalities, proactive planning, and regular maintenance to enhance and preserve the Town's quality of life while promoting safety, health, and protection of the natural environment. To balance all of these needs, the Town will benefit from a committed local engineering partner who will:

- Effectively act as an extension of your staff with a **focus on the Town's goals, keeping your best interests at the forefront on every project.**
- **Bring a fresh-perspective and innovative solutions** to challenges and complex issues.
- Assist the Town with maximizing potential project grant funding **to reduce the financial impacts to your community.**

Jones Edmunds **stands ready and is committed to serving the Town as your dedicated engineering partner.** For more than 44 years, Jones Edmunds – a full-service, Florida-based company with 125 personnel statewide – has focused on **Florida's municipal infrastructure needs**, making us an ideal partner to provide engineering services to the Town. We have been serving communities in the Tampa Bay area and Southwest Florida for over 40 years, and our local Tampa Office has served the region for nearly 30 years. We can serve as an extension of your staff to provide additional resources – whether conducting planning and studies, performing preliminary engineering, assisting with permitting and funding, or taking a project from concept through implementation. We have supplemented our team with key partners – ICON Consultant Group, Wekiva Engineering, ASRus, and EMI Consulting Specialties – to deliver full-service capabilities to address your infrastructure needs.

We are eager to bring a fresh perspective and innovative solutions to current challenges such as addressing the impacts of increasing salinity in the Town's potable water production wells, restoring and managing Belleair Creek, and improving Ponce de Leon Boulevard. We offer valuable and unique perspective in developing solutions to the challenges the Town may face on projects under this contract and are committed to providing a high level of service to the Town. In addition, we have an **established history of developing funding strategies for a broad range of projects and assisting with reporting requirements for many project types that we can apply to support the Town's needs.**

Jones Edmunds values long-term relationships with our clients – relationships built on listening and working to meet client needs. We welcome the privilege to join your team and begin our relationship with the Town. The individuals below are authorized to make representations for the Proposer. If you have any questions or comments regarding our qualifications, please contact us at (813) 258-0703.

Sincerely,



Lisa R. Rhea, PE
Project Manager
lrhea@jonesedmunds.com



Erin Hunt, PE
Project Principal
ehunt@jonesedmunds.com

TABLE OF CONTENTS

Letter of Interest	1
Table of Contents	2

Tab 1 – Firm Identification:

1–7	Consultant Profile	3
	Organizational Chart	4
	Résumés	5
8	Key Personnel to be Involved in Providing Services	40
9–10	Outside Associates and Subconsultants	44
11	Example Project which Typifies Firm Product	46
12	Representative Municipal Projects and Services	47
13–15	Respond Quickly to Town Needs	66
	Familiarity with Typical Engineering Problems	66
	Quality Services on Schedule and Budget	74
16	References	76
17	Affirmative Action and Equal Opportunity Practices	77
18	Conflicts of Interest and Ongoing or Pending Litigation, Claims or Suits against the Town	79
19	Additional Information	80
20	Certified Minority Business Enterprise	82

Tab 2 – Statement of Understanding	84
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TAB 1

FIRM IDENTIFICATION:

EXHIBIT B.
QUALIFICATION
QUESTIONNAIRE



SUBTABS 1-7

CONSULTANT PROFILE,
INCLUDES ORGANIZATIONAL CHART AND
RESUMES



1-7. CONSULTANT PROFILE

1. **FIRM NAME:** JONES EDMUNDS & ASSOCIATES, INC.

2. **ESTABLISHED:**

- a. **YEAR:** 1974
- b. **STATE:** Florida

3. **FORMER FIRM NAME(S), IF ANY, AND YEARS IN BUSINESS:**

Jones, Olson & Associates, Inc. (name changed in 8/1976) / 44 years in business



4. **OFFICE/BUSINESS ADDRESS AND TELEPHONE NUMBERS:**

Headquarters

Address: 730 NE Waldo Rd.
Gainesville, FL 32641
Phone Number: 352.377.5821
Fax Number: 352.377.3166

5. **BRANCH OFFICES BUSINESS ADDRESS AND TELEPHONE NUMBERS:**

Office of Record – Tampa

Address: 324 S. Hyde Park Ave., Suite 250
Tampa, FL 33606
Phone Number: 813.258.0703
Fax Number: 813.254.6860

Winter Haven

Address: 141 NW 5th Street, Suite 200
Winter Haven, FL 33881
Phone Number: 863.293.3332
Fax Number: 813.254.6860

Sarasota

Address: 7230 Kyle Court
Sarasota, FL 34240
Phone Number: 813.258.0703
Fax Number: 941.358.1431

West Palm Beach

Address: 2240 Palm Beach Lakes Blvd., Suite 300
West Palm Beach, FL 33409
Phone Number: 561.249.6757
Fax Number: 352.377.3166

Titusville

Address: 3910 S. Washington Ave., Suite 210
Titusville, FL 32780
Phone Number: 321.269.2950
Fax Number: 321.269.2951

Jacksonville

Address: 8657 Baypine Road, Suite 300
Jacksonville, FL 32256
Phone Number: 904.744.5401
Fax Number: 904.744.6267

6. **ASSOCIATES AND PRINCIPALS:**

President and CEO:

Stanley Ferreira, Jr., PE

Vice President(s):

Erin Hunt, PE (Project Principal)
Brett Cunningham, PE
Douglas Toth, PhD, PE
Kenneth Vogel, PE
Richard Koller, PE, LEED AP
Terri Lowery

For a listing of associates who will serve the Town of Belleair on this Contract, see the organizational chart and résumés on the following pages.

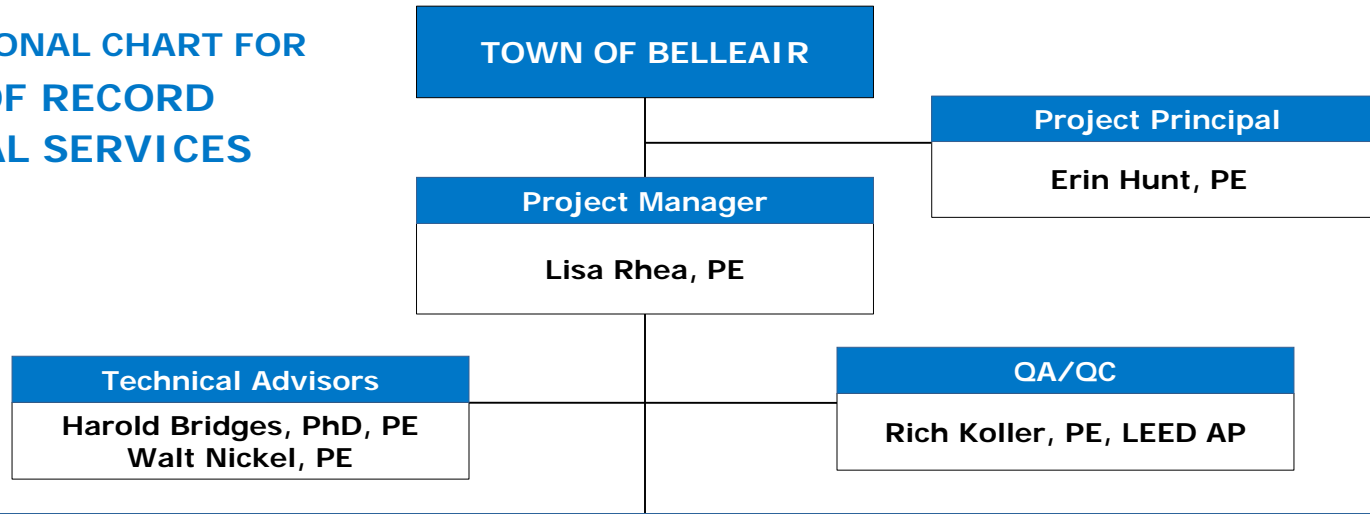
Secretary and Treasurer:

Robert Edmunds, PE

7. **TOTAL PERSONNEL OF FIRM:**

- a. **PROFESSIONAL:** 52 (registered)
- b. **NON-PROFESSIONAL:** 46
- c. **OTHER:** 27

TEAM ORGANIZATIONAL CHART FOR ENGINEER OF RECORD PROFESSIONAL SERVICES



A. Design Services, C. Project Administration, and K. General Engineering Consultation/Peer Review/Quality Assurance will be provided by professionals with the appropriate expertise.

Engineer of Record Services

B. Construction and Inspection

Phase

Jeff Crowley, PE, CCM, PMP,
LEED AP
Gregg Fruecht
Jim Clifford
Terry Ann Martin

D. General Civil/Stormwater

David Jones, PE
Matt O'Brien, PE
Tracy Dayton, PE, CFM
Amy Goodden, PE

E. Traffic Engineering

Angelo Belluccia, PE¹
Daniel Hendrickson, PE¹
Karddy Rodriguez, EI¹

F. Water/Wastewater

Tom Friedrich, PE, BCEE
Doug Young, PE, CDT
Jim Elder, PE
David Yonge, PhD, EI
Sean Menard, EI

H. Pavement Management

Bruce Myhre, PhD, PE
Jarrod Hirneise, PE
Brian Thomas, EI

I. GIS/Asset Management

Khan Boupha, PE, GISP
Brian Rosenfeld, GISP
Jacob Stephen
Tom Blush

J. Grant Administration

Terri Lowery
Lisa Rhea, PE
Audrey Jimenez, CPSM

SUPPORT DISCIPLINES

Public Involvement

Terri Lowery
Audrey Jimenez, CPSM

Hydrogeology/Brackish Wells

Michelle Hays, MS, PG
Mark McNeal, PG²

Electrical I & C

Mike Clark, PE
Willard Hoanshelt, PE³

Structural

John Sobczak, PE⁴

ERIN HUNT, PE PROJECT PRINCIPAL

Erin serves as Managing Director in the Jones Edmunds' Infrastructure Discipline out of the Tampa office. She has more than 20 years of experience specializing in water-related projects including water treatment, water resources planning, development of alternative water supply sources, and interconnection of water supply and wastewater treatment systems. She has been Project Manager or Lead Engineer on projects ranging from master planning to design, construction, and permitting.

SELECTED PROJECT EXPERIENCE

[Corrosion Control Study | City of St. Cloud, FL | Sr. Project Engineer](#) Erin is serving as a Senior Engineer for this study that includes assessing the City of St. Cloud's treatment process and overall water quality to determine the need for corrosion control treatment.

[Arsenic Treatment Evaluation | City of Lincoln, NE | Project Manager](#) Erin led the effort to evaluate the sources and possible treatment strategies for increased arsenic levels in the City's source water. In addition, overall distribution system water quality was evaluated to address concerns related to nitrification in the system and possible corrosion control strategies.

[Southwest System Water Master Plan | City of Leesburg, FL | Project Manager](#) Erin is leading the efforts to develop a water master plan to address the increased demands in the southwest portion of the City's system. The options considered will include new transmission mains, new treatment facilities and additional system storage.

[Water System Facilities Master Plan | Lincoln, NE | Project Manager](#) Erin led the effort to develop a Facilities Master Plan for the City's water system through 2040, evaluating unit by unit treatment capacities to determine the potential for WTP expansion, and the feasibility of developing a second source of supply for improved reliability.

[Water Treatment Plant Design | City of Ames, IA | Project Engineer](#) Erin assisted with the design of a new lime softening Water Treatment Plant, with a capacity of 15 MGD.

[Florence Water Treatment Plant Improvements | Omaha, NE | Project Manager/Project Principal](#) Erin led the Comprehensive Engineering Review and subsequent design projects to address the aging infrastructure needs required for this lime softening facility, including the addition of recarbonation, rehabilitation of the 200-MGD filter plant, pump replacement, addition of clearwell storage, and improvements to the primary softening basins.

[Phase IV Water Treatment Plant Expansion | City of Blair, NE | Sr. Project Engineer](#) Erin served as a Senior Engineer for the expansion of the City's water treatment plant to increase the plant capacity to 20 MGD. Improvements to the raw water pumping station, filtration units, and chemical storage and feed systems will provide the required capacity.



AREAS OF SPECIALIZATION:

- Water Supply and Treatment
- Water Distribution and Storage
- Project Management
- Client Service
- Resource Management

YEARS OF EXPERIENCE: 21

EDUCATION:

Bachelor of Science,
Environmental Engineering,
University of Florida, 1996

PROFESSIONAL CERTIFICATION:

Professional Engineer, #56792,
2001, FL

LISA RHEA, PE PROJECT MANAGER

Lisa is the Tampa Utilities Department Manager for Jones Edmunds. She has 14 years of experience designing and managing public utilities. She has managed and coordinated team for utility projects including water treatment and distribution, wastewater collection systems, wastewater treatment, reclaimed water distribution and effluent disposal for Florida municipalities, including the Cities of St. Cloud, Dunnellon, Oldsmar, Bradenton, Clearwater and Pinellas County. Lisa has managed daily operations, implemented system improvements and planned future projects for a City Utilities Department, which include a Reverse Osmosis Water Treatment Plant, Distribution and Collection, and Water Reclamation Facility. Her understanding of government operations, regulatory compliance and public perception provide an advantage to project team coordination.

SELECTED PROJECT EXPERIENCE

[Downtown Water Main | City of Oldsmar | Project Manager](#) As Project Manager, Lisa coordinated the daily activities for the design team on this project to update the 2008 design to complete the replacement of the galvanized steel piping and expansion of the reclaimed water system in the downtown area.

[Reclaimed Water Master Plan | City of Oldsmar | Project Manager](#) Lisa coordinated with the Jones Edmunds team and the City to make sure the project met the City's expectations and played a critical role in project decisions.

[Water Reclamation Facility Screw Press Dewatering System | City of Oldsmar | Client Services](#) Lisa, serving as our Department Manager and formerly as the City Public Works Director, played a key role in critical decision making for the project. She also played an active role during commissioning to ensure equipment and process performance.

[WRF Aeration Assessment | City of Oldsmar | Project Manager](#) Lisa served as the Project Manager for this project in which Jones Edmunds assessed the WRF aeration system, evaluated alternative aeration system configurations, identified and summarized upgrades to the system that increase efficiency, improved plant operations for nutrient and COD removal, and provided cost estimates for the selected options.

[Harbor Palms Infrastructure Improvements | City of Oldsmar | Project Manager](#) Lisa is managing this project to provide new water and reclaimed distribution piping with new individual service connections to replace the existing substandard piping. Sidewalks and roadways are being assessed with the goal of abandoning the rear easement pipe and redirecting stormwater to the roadways.



AREAS OF SPECIALIZATION:

- Municipal Operations
- Utility Distribution and Collection Systems
- Environmental Engineering
- Wastewater Treatment Design and Operations
- Regulatory Permitting and Compliance
- Funding Assistance

YEARS OF EXPERIENCE: 14

EDUCATION:

Master of Science, Environmental Engineering, University of South Florida, 2004

Bachelor of Science, Chemistry Education, University of South Florida, 1997

PROFESSIONAL CERTIFICATION:

Professional Engineer, #69210, 2009, FL

RICH KOLLER, PE, LEED AP **QA/QC**

Rich will serve the Town of Belleair and team as the QA/QC Manager. As the Managing Director of Quality for Jones Edmunds, he works closely with our other Managing Directors and Chief Executive Officer to ensure consistent and thorough implementation of the Jones Edmunds Quality Program. Rich monitors quality assurance and quality control across all areas of practice to help identify and mitigate risks to clients and the firm. He develops and maintains policies and procedures for Quality Program implementation, and monitors critical measures of success company-wide.

His primary activities for the City will include:

- Reviewing new projects to identify client success factors and risk mitigation needs.
- Participating in project brainstorming sessions.
- Assisting with development of project scopes.
- Working with the project and task managers on project challenges and solutions.
- Supporting clients with project management and technical solutions.

SELECTED PROJECT EXPERIENCE

[Reclaimed Water System Extension | Braden River Utilities, LLC \(BRU\) | Principal](#) Rich served as a Principal and Senior QC reviewer on deliverables to the client during the planning, design, and construction phases.

[Central Regional Water Production Facility Design | Polk County | Project Manager](#) Rich served as Project Manager for Jones Edmunds' portion of a new \$25-million, 4-MGD Water Production Facility design. Rich managed all phases of the project for Jones Edmunds, including Phase 1 site assessment, ecological survey, topographic and boundary surveying, geotechnical investigations, preliminary engineering, permitting, final design, bid support, and construction support (ongoing).

[17/92 RCW Main | Polk County | Ongoing | Project Manager](#) Rich is working closely with Polk County Utilities (PCU) through design and permitting of a new 12,000 linear foot RCW pipeline to serve several residential developments along US Highway 17/92 in the Davenport area and provide system looping.

[Water System Improvements | Town of White Springs | Project Manager](#) Rich served as Project Manager, handling all project phases and worked closely with FDEP staff for SRF Funding and SRWMD on purchase of the land for the new wellfield.

[NASA Revitalize Water and Wastewater Systems | Kennedy Space Center | Principal/Senior QA/QC](#) Rich served as a Principal and Senior QC reviewer on deliverables to the client during the planning, design, and construction phases for the revitalization of Kennedy Space Center's water and wastewater systems.



AREAS OF SPECIALIZATION:

- QA/QC Process
- Water and Sewer System Design
- Civil and Environmental Engineering
- Roadway and Drainage System Design
- Site Development
- Construction Administration
- Preparation of Plans and Specifications
- Project Management
- Facilities Design
- Permitting

YEARS OF EXPERIENCE: 27

EDUCATION:

Bachelor of Science,
Environmental Engineering,
University of Florida, 1991

PROFESSIONAL CERTIFICATION:

Professional Engineer, #49947,
1996, FL

LEED Accredited Professional
#10657400-AP-BD+C, 2011

HAROLD BRIDGES, PHD, PE TECHNICAL ADVISOR

Harold is a highly experienced engineer who will work with our team as a technical advisor with an emphasis on quality project delivery. During his 50+ year career, Harold has served as Design Engineer, Project Engineer, and Project Manager on hundreds of water and wastewater projects throughout Florida. With many years of experience, he is familiar with all aspects of water and wastewater engineering ranging from evaluation, process optimization, upgrades, new plant construction, and development of reclaimed water systems. His relevant experience includes serving as Project and Program Manager for the major utilities improvements program for the City of Bradenton over the last 40 years.

SELECTED PROJECT EXPERIENCE

[Water and Wastewater Rates Review | City of Bartow | Project Manager](#) Harold reviewed water and wastewater rates to establish rates for FY11–15 for the City. The study established the bulk wastewater treatment charge for treating wastewater from Polk County's Central Regional Utility Service Area at the City's Wastewater Treatment Plant. He presented his final report to the City Council.

[Raw Water Main Relocation, US 301 to 45th Street East | City of Bradenton | Project Manager](#) Harold was the Project Manager for the design, permitting, and construction of this project to relocate a water transmission main through a new development.

[Water Treatment Plant | St. Johns County | Project Manager](#) Harold was the Lead Design Engineer and Engineer of Record for the design and construction of a new Bartram Oaks WTP.

[Total Water Management Plan \(TWMP\), Pipeline Design Segment 6 | JEA | Project Engineer/Engineer of Record](#) Harold was the Project Engineer and Engineer of Record for this project that included designing and installing a 24-inch finished water transmission piping system (9,060 linear feet) and 2 inter-tie stations.

[Northeast Water Treatment Plant High Service Pump System Improvements – Design and Professional Services during Construction | St. Johns County | Project Manager](#) Harold served as Project Manager, Lead Design Engineer, and Engineer of Record preparing the preliminary design, collecting field data, preparing construction documents, and assisting the County during the bidding, and contract award.

[Eastside Wastewater Transmissions System Improvements | City of Bradenton | Client Services](#) Harold oversaw project design and construction teams, obtained permitting, coordinated the collection of field survey data, and prepared construction plans and specifications for wastewater transmission system improvements.



AREAS OF SPECIALIZATION:

- Wastewater Collection, Pumping, and Transmission
- Water Processing and Wastewater Treatment
- Water Pumping, Storage, Transmission, and Distribution
- Water Resources

YEARS OF EXPERIENCE: 52

EDUCATION:

Doctorate, Sanitary Engineering, Iowa State University, 1970

Master of Science, Sanitary Engineering, Iowa State University, 1967

Bachelor of Science, Civil Engineering, Iowa State University, 1965

PROFESSIONAL CERTIFICATION:

Professional Engineer, #22016, 1975, FL

WALT NICKEL, PE TECHNICAL ADVISOR

Walt has over 30 years of experience providing a wide range of civil engineering services to local, state, and federal governments. He has coordinated engineering activities for infrastructure projects as well as industrial and commercial site development projects. Walt has served as a Project Manager and Design Engineer on roadway design and improvement/rehabilitation, bridge design and rehabilitation, site development and expansion, site/utility design, and stormwater design projects.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration Final Design | Gainesville Regional Utilities \(GRU\) | Project Manager](#) Walt managed in-house design teams and various subconsultants for the design phase and served as senior design engineer for all civil/site elements including wetland cell grading, berm design, sediment basin design, and roadway design. Jones Edmunds provided preliminary design, design plans and specifications, bidding, and permitting services; interfacing with project stakeholders; and identifying and procuring grant and other funding sources.

[Masters Tract Regional Stormwater Treatment Facility | St. Johns County | Project Manager](#) Walt was responsible for overseeing project scope, schedule, and budget. Jones Edmunds designed, obtained permitting, obtained funding, and provided construction services for a regional stormwater treatment system for St. Johns County that meets TMDL compliance goals for the Lower St. Johns River BMAP.

[Tumblin Creek Final Design | City of Gainesville | Client Services](#) Walt provided QA/QC of the plans, specifications, and storm flows and coordinated with Public Works staff and the CMAR. Jones Edmunds performed civil design and environmental resource permitting for an inline regional stormwater treatment (RST) system on Tumblin Creek.

[Burbank and Douglas Roads Peer Review | City of Oldsmar | Project Manager](#) Walt served as the Project Manager and senior technical adviser on the project. Jones Edmunds performed a peer review of design documents prepared by another firm for the widening of Douglas Road between Commerce Boulevard and Burbank Road as well as Burbank Road from Douglas Road to approximately 75 feet south of the CSX at-grade railroad crossing.

[Pavement Management Program Construction Administration | St. Johns County | QA/QC](#) Walt provided peer review and QA/QC services on this project. Jones Edmunds provided construction administration services for the FY16 and FY17 pavement management program.



AREAS OF SPECIALIZATION:

- Civil Engineering
- Project Management
- Roadway Design and Improvements
- Infrastructure
- Site Development

YEARS OF EXPERIENCE: 32

EDUCATION:

Bachelor of Science, Civil Engineering, Cleveland State University, 1985

PROFESSIONAL

CERTIFICATION:

Professional Engineer, #68638, 2008, FL

JEFF CROWLEY, PE, CCM, PMP, LEED AP CONSTRUCTION AND INSPECTION TASK MANAGER

Jeff is a Senior Project Manager in Jones Edmunds' Construction Administration group. His project experience includes wastewater treatment plants and utility upgrades. He has led design and construction teams, developed and implemented design and construction standards, developed and managed complex construction phasing plans, and provided construction administration services for the construction of new facilities and renovation of existing facilities with minimal disruption to operations and patrons.

SELECTED PROJECT EXPERIENCE

[Water Main Improvements for Priorities 1, 3 and 4 | City of Bradenton | Construction Administration](#) Based on the Water Distribution System Facilities Plan developed by Jones Edmunds in 2013, Jones Edmunds provided engineering services for the design and construction administration of approximately 11,500 linear feet of water main replacements in Priority Areas 1, 3 and 4. Jeff provided construction administration services.

[Gus Stewart WPF Conversion to RCW | Polk County | Project Manager](#) Jeff served as Project Manager providing bidding and construction-phase services to meet LOS service issues for the RCW and potable water systems.

[WRF Screw Press Dewatering System | City of Oldsmar | Project Manager](#) Jeff served as the Project Manager during the construction phase. He worked closely with the City to develop a scope of construction oversight services shared between the City and Jones Edmunds to mitigate any potential cost overruns for both sides. Jeff also played an active role during commissioning to ensure equipment and process performance was achieved.

[Water Main Crossing at I-75 | Sarasota County | Project Manager](#) Jeff was the Project Manager and responsible for construction QA for design and construction-phase services related to construction of a 16-/18-inch-diameter potable water main.

[ASR Well Construction and Design of Surface Facilities | City of St. Cloud | Construction Administrator](#) Jeff provided construction services for this project overseeing bidding, construction administration, and resident observation services for the ASR surface facilities.

[Reclaimed Water System Improvements | City of Bradenton | Project Manager](#) Jeff provided project management and construction administration services for the project. He was responsible for the internal project management and administration of the construction contract for the City of Bradenton.

[Master Lift Station Construction Services | City of Winter Haven | Project Manager](#) Jeff is serving as Project Manager providing contract administration and construction-phase services for the construction of a Master Lift Station.



AREAS OF SPECIALIZATION:

- Construction Administration
- Project Management
- Site Development
- Resident Observation
- Water and Wastewater Treatment
- Water Distribution
- Wastewater Collection

YEARS OF EXPERIENCE: 20

EDUCATION:

Bachelor of Civil Engineering, Civil and Environmental Engineering
Clarkson University, 1995

PROFESSIONAL CERTIFICATION:

Professional Engineer, #79244,
2015, FL

Qualified Stormwater
Management Inspector, #33533,
2015, FL

LEED Accredited Professional,
#10861673-AP-BD+C, 2014

Project Management Professional
(PMP), #1728871, 2014

Certified Construction Manager
(CCM), #A2311, 2012

GREGG FRUECHT

CONSTRUCTION AND INSPECTION SERVICES

Gregg is the Tampa Office's Construction Administrator. In this role, he oversees construction projects for our local clients, including water distribution and pumping systems, wastewater collection and pumping systems, reclaimed water systems, and wastewater treatment facilities. He has also administered stormwater, roadway, and public park facility projects. He coordinates field activities with clients, contractors, and Jones Edmunds personnel, oversees pre-construction activities including pre-construction conferences, public utility coordination, and reviews of contractor construction and submittal schedules. During construction, Gregg reviews shop drawings and contractor pay requisitions, fields and process contractor claims, processes change orders, responds to contractor request for additional information, investigates private property/resident concerns and provides construction reports for Owner. Gregg also oversees post-construction activities including coordination with Owners for facilities start-up and process certification, training operating personnel, review of as-builts and obtaining project certifications required from State and Federal Agencies.

SELECTED PROJECT EXPERIENCE

[New Keller Operations and Maintenance Facility CA Services | Pinellas County | Contract Administrator](#) Gregg served as the contract administrator and on-site field representative on this project. Jones Edmunds provided construction administration services for the construction of a new 29,000-square-foot Operations and Maintenance Facility at the Keller Water Treatment Facility with associated parking, stormwater drainage, and site work.

[Eastside Wastewater Transmission System Improvements, Professional Services During Construction | City of Bradenton | Construction Administrator](#) Gregg provided construction administration services oversight including monthly project review meetings, monthly payment applications, and coordination with City's on-site resident project representative.

[Reclaimed Water Interconnect | Braden River Utilities | Construction Administrator](#) Gregg served as one of the construction administrators for this project that consisted of reclaimed water transmission and distribution lines, pumping facilities, and a storage facility to interconnect with the City reclaimed water system and expand BRU's irrigation storage transmission system.

[Master Lift Station Construction Services | City of Winter Haven | Construction Administrator](#) Gregg is providing construction administration services for the construction of a Master Lift Station.

[NE WRF IR Pump Station Construction Services | City of Clearwater | Construction Administrator](#) Gregg served as one of the construction administrators for this project that consisted of construction-phase services to replace the Northeast Water Reclamation Facility's 84-inch-diameter internal recycle screw pumps.



AREAS OF SPECIALIZATION:

- Construction Administration Services
- Engineering Field Services
- Environmental Specialist - Environmental Services Group
- AutoCAD

YEARS OF EXPERIENCE: 39

EDUCATION:

Associate of Arts, Product Design, Southern Illinois University, 1982

JIM CLIFFORD

CONSTRUCTION AND INSPECTION SERVICES

Jim is a Field Representative at Jones Edmunds with 40 years of experience. Previously, he has served as a Project Manager and Project Superintendent for a variety of utilities and construction projects. Jim has extensive experience with all types of piping installations from Horizontal Direction Drilling to Cured In Place Pipe to extensive work with traditional trench and fill. In addition to his experience with pipeline installations he has worked on landfills, lift stations, stormwater design, and roadway construction.

SELECTED PROJECT EXPERIENCE

[Eastside Waterline Extension | City of Zephyrhills | Field Representative](#) Jim provided field services including observation coordination and negotiations with the Contractor on this project to construct a new 12-inch water main that would interconnect the north end of the City of Zephyrhills water system to the south end of the City's water system.

[Reclaimed Water System Extension | Braden River Utilities | Field Representative](#) Jim was the on-site Construction Field Representative for all three construction contracts. The project consisted of 16,600 linear feet of open cut PVC pipe, almost 7,000 linear feet of HDPE or FPVC directional drills, and approximately 450 linear feet of jack and bore casing and pipe.

[WRF Emergency Power Upgrade Bid and Construction Services | City of Oldsmar | Field Representative](#) Jim provided bid and limited construction services during the construction of the emergency power upgrade project.

[New Keller Operations and Maintenance Facility CA Services | Pinellas County | Field Representative](#) Jim provided resident observation services during critical periods of the site development for a new 29,000 square foot Operations and Maintenance Facility at the Keller Water Treatment Facility with associated parking, stormwater drainage, and site work.

[EPCR Regional Wastewater System | Putnam County | Field Representative](#) Jim monitored construction activities, providing daily reports and oversight on this project to construct a new wastewater treatment plant, six new lift stations, and all associated force main installations and grinder pump installs.

[Phillippi Creek Area N-3 Septic System Replacement Construction Services | Sarasota County | Field Representative](#) Jim is the on-site construction field representative serving Sarasota County and the local citizens on this project for the installation of a hybrid shallow gravity sewer system with 60 manholes, 4 lift stations, 6-inch force main, and 12,000 linear feet of gravity piping.



AREAS OF SPECIALIZATION:

- Construction Administration
- Site Planning
- Construction Inspection
- Cost Analysis
- Project Management

YEARS OF EXPERIENCE: 40

EDUCATION:

Associate of Applied Science,
Science, St. Petersburg College,
1973

TERRY MARTIN CONSTRUCTION PROJECT COORDINATION

Terry is one of Jones Edmunds' Construction Project Coordinators based in the Tampa area. All construction projects within the company go through one of our Construction Project Coordinators to make sure they are completed according to Jones Edmunds' standard procedures as well as with any compliance items from funding agreements. She is experienced with all phases of construction and the processes involved from preconstruction through final walkthroughs.

One method that Jones Edmunds serves our clients with construction phase services is through citizen outreach and by providing call in phone numbers for questions and information on high profile projects. This is a service that we are providing Sarasota County on the Phillippi Creek project and whenever a resident uses that call in number, it is Terry who takes their calls and helps solve their issues. If needed, Jones Edmunds can set up a call in number for the citizens of the Town of Belleair to call and express their concerns. This is just one excellent example of the additional service that Jones Edmunds Construction Disciplines will provide.

SELECTED PROJECT EXPERIENCE

[New Keller Operations and Maintenance Facility CA Services | Pinellas County | Construction Project Coordinator](#) Terry served as the Construction Project Coordinator on this project. Jones Edmunds provided construction administration services for the construction of a new 29,000-square-foot Operations and Maintenance Facility at the Keller Water Treatment Facility with associated parking, stormwater drainage, and site work.

[Water Main Crossing at I-75 | Sarasota County | Construction Project Coordinator](#) Terry served at the Construction Project Coordinator. Jones Edmunds provided design and construction-phase services related to construction of a 16-/18-inch-diameter potable water main.

[East Port Stage 1 Improvements CEI Services | Charlotte County | Construction Project Coordinator](#) Terry served as the Construction Project Coordinator on this project. Jones Edmunds assisted Charlotte County Utilities (CCU) during the construction of the East Port Water Reclamation Facility (WRF) Stage 1 Improvements project. Charlotte County and CCU engineering managed the project and provided daily construction-observation services.

[Phillippi Creek Area N-3 Septic System Replacement Construction Services | Sarasota County | Construction Project Coordinator](#) Terry is the Construction Project Coordinator serving Sarasota County and the local citizens. Jones Edmunds is currently serving Sarasota County by providing Services During Construction for the Phillippi Creek Area N-3 wastewater system upgrades. This project includes full time construction oversight and contract administration services to install a regional sewer system.



AREAS OF SPECIALIZATION:

- Construction Documentation
- Construction Contracts
- Funding Compliance
- Construction QA/QC

YEARS OF EXPERIENCE: 9

DAVID JONES, PE, GISP GENERAL CIVIL/STORMWATER TASK MANAGER

David is the Water Resources Department Manager at Jones Edmunds' Tampa office. He has extensive experience in applying GIS to solve water resource engineering problems and has worked in the discipline of water resource engineering for over 30 years. During this time, David developed numerous automations and work process advances using GIS to increase work quality and pace. He has created numerous database designs and GIS tools focused on hydrology, hydraulics, and water quality. Projects he has managed include design and implementation of a countywide stormwater model, model review/development, map modernization, watershed management, and floodplain mapping.

SELECTED PROJECT EXPERIENCE

[Curlew Creek Watershed Management Plan \(WMP\) | Pinellas County | Project Manager](#) David is serving as the Project Manager, helping to develop the Curlew Creek and Smith Bayou WMP for Pinellas County and SWFWMD, which incorporates the Digital Topographic Information, Watershed Evaluation, and WMP elements from the SWFWMD Guidelines & Specifications. The WMP includes a hydrologic and hydraulic model, a pollutant loading model, and best management practices and in addition addresses sea-level rise with additional modeling scenarios and erosion and sedimentation with a geomorphic analysis.

[McKay Creek Watershed Management Plan | Pinellas County | Project Manager](#) David served as the Project Manager for the comprehensive watershed management plan for the McKay Creek Watershed in Pinellas County. The evaluation recommended specific implementation strategies to address the management of water levels in the two reservoirs, conveyance improvements to reduce flooding and erosion problems, and improvements to water quality in McKay Creek, Taylor Lake, and the Walsingham Reservoir.

[Cross Bayou Watershed Management Plan | Pinellas County | QA/QC](#) David provided QC for project deliverables for this project that developed a Watershed Management Plan that consisted of selected elements from SWFWMD's Watershed Management Plan Guidelines & Specifications

[Stormwater Inflow Reduction Planning | Pinellas County | Project Manager](#) David is the Lead Engineer and Project Manager. Under his direction, the project team applied data and technologies from the field of stormwater management to help identify stormwater inflow locations. Currently he is developing best management practices directed at reducing flooding at these locations to mitigate flooding as well as reduce wastewater overflow potential.

[Stormwater Management Plan | City of Bradenton | QA/QC](#) David provided QA/QC on the project, including of the model, database, report, and BMPs. Jones Edmunds developed a WMP for the City of Bradenton to mitigate flood risks within the City.



AREAS OF SPECIALIZATION:

- Water Resources
- GIS
- Hydrology/Hydraulics
- Water Quality
- Floodplain Management
- Watershed Management

YEARS OF EXPERIENCE: 31

EDUCATION:

Bachelor of Science, Civil Engineering, University of Florida, 1986

PROFESSIONAL CERTIFICATION:

Professional Engineer, #44714, 1991, FL

Geographic Information Systems Professional (GISP), #00061924, 2009, FL

MATT O'BRIEN, PE **GENERAL CIVIL/STORMWATER ENGINEER**

Matt is a Professional Engineer at Jones Edmunds. His expertise encompasses civil and stormwater engineering, roadway design and traffic analysis. He has designed numerous roadway plans that have also included signing and pavement markings and signalization. Matt is familiar with both AutoCAD and Microstation software packages. He has also performed numerous traffic impact studies using both SYNCHRO and HCS software packages. He is certified through FDOT in Advanced Maintenance of Traffic.

SELECTED PROJECT EXPERIENCE

[Harbor Palms Infrastructure Improvements | City of Oldsmar | Engineer of Record](#) Matt is the Engineer of Record for the streets and stormwater. He completed an assessment to determine if a street needed full reconstruction, full-depth reclamation, or milling and resurfacing.

[Sweetwater/Paynes Prairie Sheetflow Restoration Final Design | Gainesville Regional Utilities | Project Engineer](#) Matt served as a Project Engineer and provided project quality control. The project satisfies requirements for reducing Nitrogen discharge for GRU's MSWRF and the City of Gainesville's MS4 as part of the TMDL for Alachua Sink. Sweetwater Branch directly recharges the Floridan Aquifer via Alachua Sink.

[Burbank and Douglas Roads Peer Review | City of Oldsmar | Project Engineer](#) Matt performed the technical/peer reviews of the design documents. Jones Edmunds performed a peer review of design documents prepared by another firm for the widening of Douglas Road between Commerce Blvd. and Burbank Rd. as well as Burbank Rd. from Douglas Rd. to approximately 75 ft. south of the CSX railroad crossing.

[NE SAFETEA-LU Roadway Improvements | City of Gainesville | Lead Designer Engineer](#) Matt served as Lead Design Engineer Intern for this project. His work first consisted of assessing project feasibility and analyzing alternatives. Matt made site visits, attended the meetings and prepared materials for the presentations including incorporating revisions from comments, prepared ICPR models and stormwater model calculations, and preparing and coordinating the design plans and drawings and cost estimates throughout all facets and phases of the project.

[CR13-Greenbriar Road Widening Evaluation | St. Johns County | Project Engineer](#) Matt provided project engineering for the shoulder and clear zone evaluation of CR 13 and Greenbriar Road in St. Johns County. He evaluated the existing roadway conditions versus proposed shoulder and safety improvements and prepared a report for the County that summarized the finding. Matt subsequently worked on the design.

[Holmes Boulevard-West King Street Intersection Improvements | St. Johns County | Engineer of Record and Resident Engineer](#) Matt provided design, permitting, and construction administration services for a stormwater management system for the intersection improvements.



AREAS OF SPECIALIZATION:

- Site Development
- Roadway Drainage & Design
- Transportation Design
- Traffic Impact Studies

YEARS OF EXPERIENCE: 12

EDUCATION:

Bachelor of Science, Civil Engineering, University of Florida, 2007

PROFESSIONAL CERTIFICATION:

Professional Engineer, #73893, 2012, FL

TRACY DAYTON, PE, CFM

GENERAL CIVIL / STORMWATER ENGINEER

Tracy is a Project Engineer and Certified Floodplain Manager with Jones Edmunds' Water Resources Department in the Tampa office. He has more than 7 years of experience providing water resource engineering and GIS solutions on numerous projects for our water district, county and city clients. Tracy has both field and office experience developing watershed management plans, including developing stormwater models and best management practices for the watershed.

SELECTED PROJECT EXPERIENCE

[Oldsmar WMP Peer Review | City of Oldsmar | Task Manager](#)
Tracy provided QC of the GIS and model for this peer review of the Watershed Management Plan. Tasks included coordinating with the City's consultant during development of the plan, evaluating the accuracy of the GIS and model parameters, and evaluating the reasonableness of model results and floodplains.

[Curlw Creek Watershed Management Plan | Pinellas County | Task Manager](#)
Tracy developed the hydrological and hydraulic features for the SWFWMD GWIS 2.0 database that will serve as the foundation for the model features. He also inventoried approximately 400 hydraulic structures and completed engineering level survey on an additional 500 plus structures. Tracy is currently working to develop the watershed parameters for the ICPR4 model.

[McKay Creek Watershed Management Plan | Pinellas County | Project Engineer](#)
Tracy was responsible for developing all elements of the Watershed Evaluation for the Upper McKay Creek area. He also inventoried approximately 750 hydraulic structures and completed engineering level survey on an additional 500 plus structures. Tracy completed the calibration and verification of the ICPR model and developed the preliminary floodplains for the watershed.

[City of Bradenton Stormwater Management Plan | City of Bradenton | Task Manager](#)
Tracy was Task Manager and Lead Engineer responsible for developing the stormwater model and GIS, and coordinated fieldwork. Jones Edmunds developed a WMP for the City of Bradenton to mitigate flood risks within the City. Changes include altered land use as well as construction of several stormwater Capital Improvement Projects.

[Lakes System Hydraulic Management Improvement Plan | City of Lakeland | Project Engineer](#)
Tracy was the Project engineer responsible for field data collection, developing the hydrologic and hydraulic parameters, and assisted during the calibration and verification of the model. Jones Edmunds prepared a hydrologic and hydraulic model using the HCSWMM5 geodatabase to create an SWMM5 model that provides the City with an easy to use tool to simulate user defined inputs such as lake stage, rainfall, and structure operations conditions.



AREAS OF SPECIALIZATION:

- Water Resources Engineering
- Hydrologic and Hydraulic Modeling
- Geographic Information Systems
- Data Collection and Analysis
- Field Reconnaissance/ Investigation

YEARS OF EXPERIENCE: 7

EDUCATION:

Bachelor of Civil Engineering,
University of South Florida

PROFESSIONAL CERTIFICATION:

Professional Engineer, #78608,
2015, FL

Certified Floodplain Manager
(CFM), #US-16-08994, 2016, FL

AMY GOODDEN, PE

GENERAL CIVIL / STORMWATER ENGINEER

Amy is an Environmental Engineer with Jones Edmunds Civil Design Department. She is knowledgeable in State and Federal permitting regulations. Amy provides a bridge between conceiving the project using modeling and developing the final design documents used for construction. Her experience includes design and modeling of wetland restoration, stormwater treatment, and water and wastewater treatment systems.

SELECTED PROJECT EXPERIENCE

[Sweetwater/Paynes Prairie Sheetflow Restoration Final Design | Gainesville Regional Utilities \(GRU\) | Project Engineer](#) Amy assisted with the design of this treatment wetland and also integrated aesthetic features and public access into the design, which must accommodate high peak flows, remove sediment and trash, and provide extensive erosion control. Jones Edmunds provided preliminary design, design plans and specifications, bidding, and permitting services; interfacing with project stakeholders; and identifying and procuring grant and other funding sources.

[Hogtown and Possum Creek Culvert Design | City of Gainesville | Task Manager](#) Amy served as a Task Manager on this project. Jones Edmunds designed drainage improvements for the Hogtown and Possum Creek crossings of NW 8th Avenue that will restore historic characteristics and functionality of the creek floodplain areas north and south of Northwest 8th Avenue.

[Tumblin Creek Final Design | City of Gainesville | Task Manager](#) Amy served as the Project Engineer and Task Manager for the civil design and environmental resource permitting for an inline regional stormwater treatment system on Tumblin Creek.

[Masters Tract Regional Stormwater Treatment Facility | St. Johns County | Project Manager](#) Amy developed the design basis and philosophy for a stormwater treatment area for agricultural runoff. The regional system provides treatment for 1,200 acres of farmland using a pump station, wet detention pond and forested wetland. The detention pond is also designed to provide high quality irrigation water as a demonstration project. Jones Edmunds designed, obtained permitting, obtained funding, and provided construction services for a regional stormwater treatment system for St. Johns County that meets TMDL compliance goals for the Lower St. Johns River BMAP.

[Upper West Ditch PER | City of Tallahassee | Task Manager](#) Amy reviewed stormwater hydrologic and hydraulic models, and water quality data for the Upper West Ditch and evaluated the feasibility of RST/stormwater retrofits for City-owned property adjacent to the Upper West Ditch and the San Luis Pond by quantifying benefits and costs. Jones Edmunds evaluated the feasibility of regional stormwater treatment and stormwater retrofits adjacent to the Upper West Ditch and the San Luis Pond.



AREAS OF SPECIALIZATION:

- Wetland Restoration
- Stormwater Modeling, Design, and Permitting
- Potable Water Treatment Plant Design and Permitting
- Chemical Feed System Design

YEARS OF EXPERIENCE: 17

EDUCATION:

Master of Engineering,
Environmental Engineering,
University of Florida, 2000

Bachelor of Science,
Environmental Engineering,
University of Florida, 1999

Bachelor of Science,
Environmental Science, Florida
Institute of Technology, 1994

PROFESSIONAL CERTIFICATION:

Professional Engineer, #60097,
2003, FL

TOM FRIEDRICH, PE, BCEE **WATER/WASTEWATER TASK MANAGER**

Tom will serve as our Water/Wastewater Task Manager for this contract. He is a Senior Consultant/Vice President for the Jones Edmunds Utilities Infrastructure Discipline and has over 28 years of experience in water and wastewater treatment process design, systems evaluation, master planning, and facility project management and construction administration. He has successfully led the evaluation, design, and construction phases of numerous water, wastewater, reclaimed and biosolids engineering projects throughout his career. Tom offers a wealth of knowledge in the evaluation of water quality, water chemistry, and microbiology of water and wastewater systems, as well as an in-depth understanding of plant operations, performance, regulatory compliance and assistance with facility permitting issues. Tom has been the Project Manager and/or Engineer of Record for water and wastewater planning, program, design and construction projects ranging from 0.10 to 100 MGD.

SELECTED PROJECT EXPERIENCE

[Reclaimed Water Interconnect | Braden River Utilities| Client Services/QA/QC](#) Tom provided client services throughout the project, providing senior engineering coordination with BRU and the City of Bradenton and served as a Senior QA/QC reviewer of the design submittals for this project.

[Water Facilities Planning & Hydraulic Model Update | City of Bradenton | Client Services/QA/QC](#) Tom served as a liaison to the client and provided QC services on the priority scoring matrix, cost analysis schedule and pipe replacement program. Jones Edmunds updated the City water distribution model and performed hydraulic and water quality modeling work to develop a water system pipe replacement program aimed at replacing age infrastructure, improving fire flow, water quality, and meeting the long-term system needs.

[Imperial Lakes Water Treatment Plant Improvements Design | Polk County | QA/AC](#) Tom was responsible for quality assurance and quality control reviews of the unit treatment process design of this 4.6-MGD Facility. The project included an innovative treatment process, green sand filtration, for removal of sulfide from the raw water.

[Downtown Water Main Design | City of Oldsmar | Senior Project Engineer](#) As Engineer of Record, Tom was responsible for the technical details associated with the project to update the 2008 design to complete the replacement of the galvanized steel piping and expansion of the reclaimed water system in the downtown area.

[East Putnam County Regional Water System | Putnam County | QA/QC](#) Tom provided QC services as the Jones Edmunds team provided all planning, design and permitting services for a new regional water system.

[Sewer Master Plan & Sewer Modeling | Charlotte County, FL | Senior Consultant /QA/QC](#) Tom provided senior technical oversight of the project and quality assurance/quality control of the work product, facilitating coordination and multi-level communication between staff and our client.



AREAS OF SPECIALIZATION:

- Master & Facilities Planning
- Water Quality, Water Chemistry and Microbiology
- Water and Wastewater Treatment Process Design
- Regulatory Permitting and Compliance
- Construction Administration of Treatment Facilities

YEARS OF EXPERIENCE: 28

EDUCATION:

Master of Science, 1992,
Environmental Resource and
Engineering, SUNY College of
Environmental Science and Forestry

Bachelor of Science, 1988,
Environmental and Forest Biology,
SUNY College of Environmental
Science and Forestry

PROFESSIONAL CERTIFICATION:

Professional Engineer, FL No. 61281

Board Certified Environmental
Engineer (Water/Wastewater
Treatment Processes), No. 01-
10041

DOUG YOUNG, PE, CDT

WATER/WASTEWATER ENGINEER

Doug is a Project Engineer in Jones Edmunds' Infrastructure Department. He is a Professional Engineer with 30 years of experience in water and wastewater utility planning, design, permitting, and construction-phase services. Projects include water and wastewater treatment plants, pump stations, and pipelines. Doug has been serving our clients as Senior Engineer and Engineer of Record leading the design efforts including plan and specification development, design schedule, quality, and client coordination.

SELECTED PROJECT EXPERIENCE

[Downtown Water Main Design and Bid Documents | City of Oldsmar](#) | [QA/QC](#) Doug completed the technical QC of the project documents. In 2008, Jones Edmunds developed bid drawings and specifications for the replacement of galvanized steel piping and for the installation of reclaimed water mains Downtown Oldsmar.

[Harbor Palms Infrastructure Improvements | City of Oldsmar](#) | [Project Engineer](#) Jones Edmunds is providing new water and reclaimed distribution piping with new individual service connections to replace the substandard piping. Doug is the Engineer of Record for the utilities work

[Utilities Relocation – Forest Lakes Boulevard | City of Oldsmar](#) | [Project Engineer](#) Doug is the Engineer of Record for this fast-track project to relocate utilities in a Pinellas County right-of-way as part of a Joint Project Agreement.

[Reclaimed Water System Extension| Braden River Utilities \(BRU\) | Project Manager](#) Doug served as the Lead Designer and Engineer of Record for the project. Jones Edmunds was the Engineer of Record and provided design and construction-phase services to BRU for 5 miles of reclaimed water transmission piping to support a growing area and use additional reclaimed water.

[Water Main Improvements | City of Bradenton | Task Manager](#) Doug served as the Senior Engineer/Engineer of Record for the project leading the design effort including plan and specification development, EOPCC, design schedule, quality, and client coordination.

[Reclaimed Water System Extension| Braden River Utilities \(BRU\) | Project Engineer](#) Doug served as the Lead Designer and Engineer of Record for the project. Jones Edmunds was the Engineer of Record and provided design and construction-phase services to BRU for 5 miles of reclaimed water transmission piping to support a growing area and use additional reclaimed water.

[Water Main Improvements | City of Bradenton | Task Manager](#) Doug served as the Senior Engineer/Engineer of Record for the project leading the design effort including plan and specification development, EOPCC, design schedule, quality, and client coordination.



AREAS OF SPECIALIZATION:

- Water Distribution
- Reclaimed Water
- Wastewater Evaluation and Treatment
- Master Planning
- Pump Stations
- Energy Audits

YEARS OF EXPERIENCE: 30

EDUCATION:

Bachelor of Science, Civil Engineering, University of South Florida, 1987

PROFESSIONAL CERTIFICATION:

Professional Engineer #44204, 1991, FL

Certified Document Technologist, Construction Specifications Institute

JIM ELDER, PE **WATER/WASTEWATER ENGINEER**

Jim serves as a Project Manager in the Jones Edmunds' Infrastructure Discipline in our Sarasota office. He has 38 years of experience in mechanical engineering, which includes water transmission, distribution and collection systems; hydraulic, pneumatic and supervisory control systems; and planning projects. He has experience working in both the public and private sectors.

SELECTED PROJECT EXPERIENCE

[R/O Injection Well Permit Renewals | Bocilla Utilities Inc., and Knight Island Utilities Inc.](#) | [Engineer of Record](#) Jim served as the EOR for the renewals of the Bocilla Utilities Inc. and the Knight Island Utilities Inc. R/O brine Class 5 injection wells. Complete permitting services included engineering reports and specification of equipment for updating well flow and pressure monitoring.

[Water Use Plan Renewal | City of Bradenton](#) | [Task Manager](#) Jim is the Task Manager on this renewal of the City's 20-year Water Use Permit. The project was closely coordinated with the City's Reclaimed Water Recharge Well Project since it should be possible to request groundwater credits for the recharge well and allow new shallow wells to be installed at the WTP to be used as Supplemental Recovery Wells to be used for the MFL requirements on the Braden River.

[R/O Brine Injection Well Permit Renewals | Englewood Water District](#) | [Administrator/Engineer](#) Jim acted as Owner/Engineer Representative providing owner oversight of for the renewals including mechanical integrity tests, review of down well video, review and authorization of permit submittals and engineering reports, and permit renewal of back-up surface water discharge.

[Lake Frances Sewer Improvements | Phase 2, City of Tavares](#) | [Project Engineer](#) Jim is managing this project to provide design services and prepare bidding documents for the improvements to Phase 2 of the Lake Frances Estates wastewater collection system.

[Deep Creek Force Main - LS#321 Design & Construction | Charlotte County](#) | [Project Manager](#) Jim is serving as Project Manager and helping to provide engineering services for the replacement/installation of a new force main (FM) in the northeast portion of the County known as Deep Creek. Based on Charlotte County Utilities' selected alternative (Jones Edmunds' recommendation), Jones Edmunds prepared a Preliminary Engineering Report that included results from the wetland delineation and wildlife surveys and will be providing final design, bidding document preparation, and bidding and construction services.



AREAS OF SPECIALIZATION:

- Water Transmission and Distribution Systems
- Wastewater Transmission and Collection Systems
- Hydraulic Systems
- Mechanical Engineering
- Supervisory Control Systems
- Pneumatic Systems
- Construction Engineering and Inspection
- Project Management

YEARS OF EXPERIENCE: 38

EDUCATION:

Bachelor of Science, Mechanical Engineering, University of Florida, 1979

PROFESSIONAL CERTIFICATION:

Professional Engineer, #43927, 1991, FL

DAVID YONGE, PHD, EI WATER/WASTEWATER ENGINEER INTERN

David specializes in drinking water treatment. His area of expertise includes membrane treatment, ion exchange, aeration, disinfection, disinfection by-products, and conventional treatment processes. His technical skills include laboratory procedures for water quality analysis, process operation troubleshooting, membrane and conventional filtration pilot testing, data analysis, and water treatment bench-scale evaluations. He currently serves as the Chair of the FSAWWA Region IV Technical and Education Committee and is a member of the AWWA Emerging Water Quality Issues Committee.

SELECTED PROJECT EXPERIENCE

[ROWTP Miscellaneous Engineering Support | City of Oldsmar | Engineer Intern](#) David assisted the ROWTP Operational Staff with developing a cleaning and maintenance approach for addressing the formation of sulfur bacteria slime in the degasifier towers at the ROWTP.

[Well 12 Evaluation | City of Zephyrhills | Engineer Intern](#) David assisted in the development of the testing plan, assisted the City with collection of water quality data, and prepared a technical memorandum detailing treatment options and recommendation for operation.

[Imperial Lakes WPF Pilot Testing | Polk County | Engineer Intern](#) David Dr. Yonge provided task management, pilot testing, and data management and interpretation and authored the technical memorandum.

[Water System Nitrification Control Study | City of Bradenton | Engineer Intern](#) David provided expertise on water quality in potable water distribution systems.

[Sewer Master Plan | Charlotte County | Engineer Intern](#) David assisted in the development of the environmental ranking and scoring criteria for the project areas and developed CIP implementation sheets. David also served as the primary author of the plan by compiling and merging multiple aspects of technical engineering disciplines and communicating the information in a readable format.

[Water Treatment Plant No 1-MIEX Resin Pre-Disinfection | City of St. Cloud | Engineer Intern](#) David served as the water quality engineer responsible for overall pilot treatment system operation, coordination with operations staff, review and monitoring of results, data summary and report preparation.

[ASR-2 System Surface Facilities Construction Phase | City of Bradenton | Engineer Intern](#) David reviewed submittals and shop drawings, prepared PCMs and RFIs, and attended progress meetings. He developed the sampling plan and operational protocol for the ASR system and worked with FDEP for permitting requirements. He also assisted in the design of the degasification tower cleaning system.



AREAS OF SPECIALIZATION:

- Water Treatment
- Water Quality Analysis
- Membrane Treatment Process
- Sulfide Treatment
- Conventional Filtration
- Disinfection
- Injection Well/Underground Injection Control (UIC) Permitting
- Aquifer Storage Recovery (ASR)

YEARS OF EXPERIENCE: 2

EDUCATION:

Doctor of Philosophy,
Environmental Engineering,
University of Central Florida, 2016

Master of Science, Environmental
Engineering, University of Central
Florida, 2012

Bachelor of Science,
Environmental Engineering,
University of Central Florida, 2011

Bachelor of Science, Civil
Engineering, University of Central
Florida, 2011

PROFESSIONAL CERTIFICATION:

Engineer Intern, #1100015690,
2011, FL

SEAN MENARD, EI WATER/WASTEWATER ENGINEER INTERN

Sean is an Engineer Intern in Jones Edmunds' Utilities Department. He has experience with ARC-GIS, AutoCAD Civil 3D, and GEM Software. Past projects include designing a system applicable for safe drinking water in third-world environments and upgrading water and wastewater treatment facilities. He is a member of the American Water Works Association as well as the Order of the Engineer.

SELECTED PROJECT EXPERIENCE

[Downtown Water Main Design and Bid Documents | City of Oldsmar | Engineer Intern](#) Sean provided technical assistance to the Engineer of Record and Senior CADD Designer. Jones Edmunds provided professional engineering services to update the 2008 design and complete the replacement of the galvanized steel piping and expansion of the City's reclaimed water system.

[Utilities Relocation – Forest Lakes Boulevard | City of Oldsmar | Engineer Intern](#) Sean provided engineering support on this fast-track project. His duties include assisting with cost estimates, specifications, and drawings.

[Reclaimed Water System Extension | BRU | Engineer Intern](#) Sean served as the Engineer Intern during the design phase supporting both permitting and design for this project to provide the next 5 miles of reclaimed water transmission piping needed to support the growing area and use the additional reclaimed water. The construction portion of the project is being co-funded by SWFWMD.

[Water System Nitrification Control Study | City of Bradenton | Engineer Intern](#) Sean completed the cost estimate for this project. The work included using hydraulic modeling to analyze nitrification and residual chlorine.

[Regional Entity Implementation Agreement | City of Lakeland | Engineer Intern](#) Sean provided technical memorandum writing. To address water supply needs within Polk County, county and city utilities are considering using the interconnects between their respective distribution systems to convey water throughout the service areas and meet the region's water demand.

[Duke Energy Hot-Oil Pipeline Conversion Feasibility Study | Pinellas County | Engineer Intern](#) Sean worked on the reclaimed water conversion option and provided map and route development, hydraulic modeling, coating assessment, and cost analysis.

[WRF Aeration Assessment | City of Oldsmar | Engineer Intern](#) Sean provided engineering support and coordinated with blower manufacturers. Jones Edmunds assessed the WRF aeration system, evaluated alternative aeration system configurations, identified and summarized upgrades to the system that increase efficiency, improved plant operations for nutrient and COD removal, and provided cost estimates for the selected options.



AREAS OF SPECIALIZATION:

- Water Distribution
- Wastewater Evaluation
- Disinfection of Water
- Pump Stations

YEARS OF EXPERIENCE: 3

EDUCATION:

Bachelor of Science, Civil and Environmental Engineering,
University of Illinois at Urbana-Champaign, 2014

PROFESSIONAL CERTIFICATION:

Engineer-in-Training,
#061038371, 2015, IL

BRUCE MYHRE, PHD, PE **PAVEMENT MANAGEMENT TASK MANAGER**

Bruce is a Project Manager with Jones Edmunds Civil Engineering Department. He has over 25 years of experience providing project management, quality assurance, design, and permitting services for a variety of infrastructure and site design projects, including water and wastewater distribution, roadway, stormwater, and site layout. He is thoroughly familiar with pavement inspections and the ASTM D6433 standards. He has experience with MicroPAVER and pavement work plan developments. Bruce has been involved in private and public sector projects, including projects at the federal, state, and local level. His experience includes client management, supervising inter-disciplinary design teams, design, permitting, and construction oversight.

SELECTED PROJECT EXPERIENCE

[Pavement Management Program Construction Administration | St. Johns County | Project Manager](#) Bruce provided oversight and served as Project Manager. Jones Edmunds provided construction administration services for the FY16 and FY17 pavement management program.

[Pavement Management Work Plan | St. Johns County | Project Manager](#) Bruce served as Project Manager and assisted Jones Edmunds in developing the pavement management program (PMP) work plans for FY16 to FY20 for the County. The PMP is facilitating more efficient allocation of County resources to maintain the County's roadways.

[Pavement Management System | City of Miami Beach | Project Manager](#) Bruce served as the Project Manager for the project that developed a Pavement Management System (PMS) to allow the City of Miami Beach to develop strategies to rank, fund, and implement roadway maintenance and repair programs (M&R) that will assist in long-range planning.

[Holmes Blvd – West King Street Drainage Improvements | St. Johns County | Project Manager](#) Bruce is the project manager for the Holmes Boulevard - West King Street drainage improvements project. He led internal, client, and agency meetings and led the analysis of stormwater management alternatives. Jones Edmunds reviewed existing plans for West King Street, Holmes Boulevard, and Fox Creek RST and developed conceptual alternatives to the existing drainage system.

[Hogtown and Possum Creek Culvert Design | City of Gainesville | Project Manager](#) Bruce served as the Project Manager and oversaw all aspects of the design as well as the project team. Jones Edmunds designed drainage improvements for the Hogtown and Possum Creek crossings of NW 8th Avenue that will restore historic characteristics and functionality of the creek floodplain areas north and south of Northwest 8th Avenue.



AREAS OF SPECIALIZATION:

- Roadway Design
- Civil Engineering
- Stormwater/Drainage Improvements
- Water and Wastewater Distribution
- Project Management
- Quality Assurance
- Site Design
- Development Review

YEARS OF EXPERIENCE: 26

EDUCATION:

Doctorate, Agricultural Engineering, University of Florida, 1996

Master of Engineering, Agricultural Engineering, University of Florida, 1988

Bachelor of Science, Agricultural Engineering, University of Florida, 1986

PROFESSIONAL

CERTIFICATION:

Professional Engineer, #50634, 1996, FL

JARROD HIRNEISE, PE PAVEMENT MANAGEMENT ENGINEER

Jarrold is a Professional Engineer at Jones Edmunds, providing water resources engineering support to the Water Resources department for several of our projects throughout Florida. His project experience includes regional stormwater modeling, drainage design, and environmental resource permitting. Jarrold is proficient in ICPR, GIS, and Microstation.

SELECTED PROJECT EXPERIENCE

[Pavement Marking Assessment Program | St. Johns County | Project Engineer](#) Jarrold served as Project Engineer and assisted Jones Edmunds to collect pavement marking data for approximately 300 miles of St. Johns County collector roads using mobile RoadVista. We performed a preliminary data evaluation and adjusted the data collection procedures and evaluation as needed. After final evaluation and acceptance of the retro-reflectivity data, Jones Edmunds incorporated the data into Cityworks.

[Pavement Condition Inventory & Management | St. Johns County | Engineer Intern](#) As Engineer Intern, Jarrold QC'ed the collected field inspection data for consistency and completeness. He was also responsible for the setup and execution of MicroPAVER modeling for several different budget scenarios.

[Pavement Management As-Needed Services | City of St. Augustine | Task Manager](#) Jarrold served as a Task Manager and assisted Jones Edmunds with the pavement inspection information collected by the City. Jones Edmunds is developing a GIS layer for the City-maintained roads, importing the City inspection data into MicroPAVER software, and providing ongoing support as needed to the City with tasks such as calculating pavement condition index (PCI) values for road segments and linking PCI values to GIS data.

[Pavement Management System | City of Miami Beach | Project Engineer](#) Jarrold served as a Project Engineer, including performing pavement distress data collection and MicroPAVER modeling.

[Alligator Creek Watershed Management Plan | City of Clearwater | Engineer Intern](#) Jarrold was responsible for completing several tasks in the parameterization of the ICPR model. He was extensively involved with the development and plotting of floodplains. He was also extensively involved with the development and modeling of Best Management Practice alternatives during the BMP Analysis phase of the project

[Pavement Management As-needed Services | City of St. Augustine | Task Manager](#) Jarrold Mr. Hirneise prepared the road dataset, imported the data into MicroPAVER, and calculated initial PCIs. He also assisted the County staff in analyzing and updating the data.



AREAS OF SPECIALIZATION:

- Water Resources Engineering
- Hydraulic and Hydrologic Modeling

YEARS OF EXPERIENCE: 6

EDUCATION:

Master of Engineering,
Environmental Engineering,
University of Florida, 2015

Bachelor of Science, Civil
Engineering, University of Florida,
2010

PROFESSIONAL CERTIFICATION:

Professional Engineer, #81391,
2016, FL

BRIAN THOMAS, EI **PAVEMENT MANAGEMENT ENGINEER** **INTERNSHIP**

Brian is an Engineering Intern at Jones Edmunds in the Civil Design Discipline. He is proficient in the use of AutoCAD, and is an FDOT Certified Plans Reader.

SELECTED PROJECT EXPERIENCE

Pavement Management System | City of Miami Beach | Engineer Intern Brian is serving as an Engineer Intern and supporting Jones Edmunds in working with the City to develop a Pavement Management System (PMS) to allow the City to develop strategies to rank, fund, and implement roadway maintenance and repair programs (M&R) that will assist in long-range planning. Jones Edmunds is providing a PMS that is based on MicroPAVER (also known as PAVER) with linkages to the City's current Cityworks Asset Management System.

CR 796A | Union County | Engineer Intern Brian served as an Engineer Intern for the project, which included developing preliminary road layout and pavement design. Jones Edmunds provided permitting, design, and limited construction-administration services related to the widening and paving of approximately 1.33 miles of County Road 796A from CR 796 and SR 238 in Union County, Florida. Union County received a grant for \$396,802.00 from the Florida Department of Transportation (FDOT) under the Small County Road Assistance Program (SCRAP).

CR 231A | Union County | Engineer Intern Brian served as an Engineer Intern. He performed field reviews and did the initial plan preparation for the project. Jones Edmunds provided permitting, design, and limited construction-administration services related to the widening and paving of approximately 2.4 miles of County Road 796A from SR 121 to CR 231 in Union County, Florida. Union County received a grant for \$502,476.00 from the Florida Department of Transportation (FDOT) under the Small County Road Assistance Program (SCRAP).

CR 239 | Union County | Engineer Intern Brian served as an Engineer Intern and assisted Jones Edmunds to provide permitting, design, and limited construction-administration services related to the widening and paving of approximately 2.62 miles of County Road 239 from Thomas Road to NW 137th Street/Ray Thomas Road in Union County, Florida. Union County received a grant for \$779,944.00 from the Florida Department of Transportation (FDOT) under the Small County Outreach Program (SCOP).

Dampiers Landing Design Services | FDEP – Design and Construction | Engineer Intern Brian is an Engineer Intern on this project and assists Jones Edmunds to construct improvements at Ichetucknee Springs State Park Dampiers Landing for the Florida Department of Environmental Protection (FDEP) Bureau of Design and Construction (BDC).



AREAS OF SPECIALIZATION:

- Civil Design

YEARS OF EXPERIENCE: 5

EDUCATION:

Bachelor of Science, Civil Engineering, University of Florida, 2012

PROFESSIONAL CERTIFICATION:

Engineer Intern, #1100017338, 2013, FL

KHAN BOUPHA, PE, GISP **GIS/ASSET MANAGEMENT**

Khan is a Professional Engineer and GIS/database programmer. He has direct experience with developing GIS and database applications. Khan has also authored several database and GIS-linked applications for use in NPDES management, stormwater modeling, stormwater inventory, water quality analysis, as well as hand-held applications for use in the field. He is a Project Manager in Jones Edmunds' Water Resources Discipline.

SELECTED PROJECT EXPERIENCE

[Stormwater Utility Impervious Mapping | Pinellas County | Task Manager](#) In addition to refining and updating the impervious surface layer, Khan has served as Task Manager through the four phases of this project. Jones Edmunds is working with the Pinellas County Department of Public Works, Natural Resources Division, to identify and digitize new developments in the unincorporated areas of Pinellas County and providing general GIS support for the Stormwater Utility Rate development effort.

[Stormwater Mapping Phases 1 & 2 | Pinellas County | Project Manager](#) Khan served as Project Manager. Jones Edmunds helped Pinellas County develop a stormwater data model (geodatabase schema) and standard operating procedures, collected field inventory data, designed tools to maintain the stormwater infrastructure database, performed QA/QC of County-collected data, and developed a connected traceable geometric network.

[Elevation Certificate Mapping | Pinellas County | Task Manager](#) Khan served as a Task Manager on this project. Pinellas County requested support in mapping and digitizing approximately 5,000 municipal elevation certificates. Jones Edmunds developed a point feature class for each parcel with an elevation certificate and transferred attributes from the elevation certificates to the point feature class. Elevations were all converted to a common vertical datum (NAVD88). This data was used to support and improve the County's FEMA Community Rating System classification.

[GIS Support Services | City of St. Cloud | Project Engineer](#) Khan was the Project Engineer and provided technical support on all GIS and SQL Server development to support the City's Asset Management and financial reporting services. Khan helped to author tools that integrate the GIS information with the City's financial reporting services.

[ArcGIS Configuration | Bonita Springs Utilities, Inc. | Project Manager](#) Khan served as the Project Manager and provided oversight of the project team and progress. Jones Edmunds performed an analysis of the Utility's workflows and recommend an ArcGIS configuration to improve efficiency, while considering the Utility's needs for data access and security.



AREAS OF SPECIALIZATION:

- GIS Analysis and Database Applications
- Water Resources
- Hydrologic and Hydraulic Modeling
- Web Applications

YEARS OF EXPERIENCE: 18

EDUCATION:

Master of Engineering, Water Resources, University of Florida, 2000

Bachelor of Science, Environmental Engineering, University of Florida, 1997

PROFESSIONAL CERTIFICATION:

Professional Engineer, #67549, 2008, FL

Geographic Information Systems Professional (GISP), #00003122, 2009, FL

BRIAN ROSENFELD, PE, GISP **GIS/ASSET MANAGEMENT**

Brian is a GIS Analyst and Project Manager at Jones Edmunds. His experience includes managing field data collection for numerous projects, geodatabase design, GIS implementation, performing imagery and GIS data analysis, as well as aerial photo interpretation and GPS mapping. Brian is also experienced in setting up enterprise GIS systems including ESRI ArcGIS Server and related applications, Cityworks Web Application setup and management, as well as designing geodatabases for use in field data collection for infrastructure related projects. Previous experience includes having identified and evaluated native ground cover; inventoried threatened, endangered, and invasive species on public and private lands; planned and conducted timber inventories on public lands; and mapped roads, trails and infrastructure in environmentally sensitive areas of Florida's State Parks and Forests, National Forests, and National Wildlife Refuges.

SELECTED PROJECT EXPERIENCE

[Regional Biosolids Drying Facility Feasibility Study | City of Oldsmar | GIS Analyst](#) Brian performed network analysis to find the optimum routes for transporting biosolids to and from proposed locations for the Regional Biosolids Drying Facility. A variety of factors was involved in this analysis including Pinellas County regulations for trucking and transport.

[Water and Wastewater Master Plan for the Southwest Regional Utility Service Area | Polk County | GIS Analyst](#) Brian provided a GIS analysis of TAZ and census data for the design and development of water/wastewater systems that would accommodate projected population growth for Polk County. He also provided support on manipulating GIS data into suitable water/wastewater modeling inputs.

[As-Built Digitizing FY 2016, Phases 1 and 2 | City of St. Cloud | Project Manager](#) Brian assisted with providing the City of St. Cloud with geospatial support to digitize as-built drawings into the City's existing GIS framework.

[W/WW Backlog | Sarasota County | Project Manager](#) Brian served as Project Manager and provided the County with assistance migrating backlogged water, reclaimed water, and wastewater (collectively referred to as "W/WW") as-built documents (scanned TIFFs) into its existing geodatabase.

[Little Manatee Watershed Management Plan | Hillsborough County | GIS Analyst](#) Brian provided support for terrain data analyses, field reconnaissance, GIS data development and management, and development of maps and figures for evaluations and reports.

[Cityworks for Stormwater | City of Tallahassee | GIS Analyst](#) Brian was the technical lead for configuring the Cityworks site and provided overall technical guidance for the project, which included Implementing and configuring the Cityworks asset management system for management of Drainage Operation's equipment, labor, and materials.



AREAS OF SPECIALIZATION:

- Geographic Information Systems (GIS)
- Remote Sensing
- Global Positioning Systems (GPS)
- Geodatabase Design
- Asset Inventory

YEARS OF EXPERIENCE: 17

EDUCATION:

Master of Science, Natural Resources Management, North Carolina State University, 2004

Bachelor of Science, Forest Resources Management, University of Florida, 2001

PROFESSIONAL CERTIFICATION:

Geographic Information Systems Professional (GISP), #00066790, 2011, FL

JACOB STEPHEN

GIS/ASSET MANAGEMENT

Jacob is a GIS Analyst at Jones Edmunds. His experience includes using GIS to develop new and manage existing spatial data to assist in creating a better informed and more efficient fire rescue department for the City of Sunrise, FL. He has assisted the City's Utilities GIS Department with project requests to create maps for various departments within Public Works and utility infrastructure. Jacob is skilled in the use of ESRI ArcGIS software to analyze geographic data, provide spatial data analysis, and interpret technical drawings.

SELECTED PROJECT EXPERIENCE

[Pinellas County CRS Program Support | Pinellas County | GIS Analyst](#) Jacob served as GIS Analyst on a project where Jones Edmunds provided Floodplain Management Program improvement recommendations. Pinellas County's existing floodplain management activities and its National Flood Insurance Program (NFIP) Community Rating System (CRS) credits were addressed so that the County could maximize their flood insurance premium reduction.

[Pinellas County Elevation Certificate Mapping | Pinellas County | GIS Analyst](#) Jacob served as GIS Analyst on this project. Pinellas County requested support in mapping and digitizing approximately 5,000 municipal elevation certificates. Jones Edmunds developed a point feature class for each parcel with an elevation certificate and transferred attributes from the elevation certificates to the point feature class. Elevations were all converted to a common vertical datum (NAVD88). This data was used to support and improve the County's FEMA Community Rating System classification.

[Stormwater GIS Support | Hillsborough County | GIS Analyst](#) Jacob served as a GIS Analyst on this project. Jones Edmunds developed an impervious surface for commercial properties to support a stormwater utility fee.

[Bradenton Stormwater Management Plan | City of Bradenton | GIS Analyst](#) Jacob served as a GIS Analyst on this project. Jones Edmunds is developing a WMP for the City of Bradenton to mitigate flood risks within the City, including altered land use as well as construction of several stormwater Capital Improvement Projects. The WMP will also incorporate topographic data collected as part of the Florida Division of Emergency Management's (FDEM) coastal LiDAR project.

[Little Sarasota Bay Model Maintenance | Sarasota County | GIS Analyst](#) Jacob is serving as GIS Analyst on this project to conduct maintenance on the Little Sarasota Bay watershed model (ICPR) and associated GIS databases. This project includes a one-time update of the Little Sarasota Bay ICPR model and associated GIS data based on the best data currently available, most notably more recent LiDAR data. Jones Edmunds will also generate the materials required for the County to submit an MT-2 Application to FEMA and provided the County with a workflow for maintaining an up-to-date county-wide DTM.



AREAS OF SPECIALIZATION:

- Geographic Information Systems (GIS)
- Remote Sensing
- Global Positioning Systems (GPS)
- Geodatabase Design
- Asset Inventory

YEARS OF EXPERIENCE: 3

EDUCATION:

Bachelor of Science, Geography,
Florida Atlantic University, 2014

TOM BLUSH

GIS/ASSET MANAGEMENT

Tom's experience includes the application of GIS to issues in the fields of Water Resources, Asset Management, and Transportation Planning that inform policy decisions in state and local government organizations. His experience includes field data collection, digitizing, GIS analysis, data mining, geodatabase design, Cityworks AMS implementation, and grant writing. Previous experience includes the development of parcel-level water conservation estimates for the St. Johns River Water Management District. Asset management experience includes Cityworks Asset Management System implementation for Water, Wastewater, and Public Works Departments. His previous work with the Jacksonville Transportation Authority includes the planning and implementation of one of the largest and most successful overhauls of a public transit system in the United States. Tom has also served on multiple grant application teams at the JTA, resulting in over \$2M in grant awards for the testing and implementation of innovative transit technologies.

SELECTED PROJECT EXPERIENCE

[Stormwater Asset Inventory Connectivity and Analysis | Pinellas County | Senior GIS Analyst](#) Tom reviewed master drainage plans and other available data, digitized and attributed missing stormwater features, performed QA/QC, checked connectivity using topology, and developed documentation. Jones Edmunds helped Pinellas County improve the existing stormwater inventory database to produce a fully connected stormwater inventory and identify major community rating system (CRS) assets and outfalls.

[Sanitary Sewer Stormwater Inflow Reduction Planning | Pinellas County | Senior GIS Analyst](#) Tom is assembling available wastewater and stormwater data from entities throughout the county, merging the data from each entity into countywide datasets, and identifying wastewater assets located within flood-prone areas. Jones Edmunds is evaluating stormwater and wastewater data from 28 communities and municipalities throughout Pinellas County to identify wastewater facilities potentially impacted by stormwater inflow and identify solutions to reduce stormwater inflows into the wastewater system.

[Enterprise GIS Implementation/GIS Spatial Assessment - WO #44 | City of Punta Gorda | GIS Technician](#) Tom provided data migration from existing databases and as-builts, spatial adjustment using orthophotography, GIS analysis, sub-foot field data collection of approximately 18,000 features, establishing topology and connectivity in the geodatabase, and development of standard operating procedures and training documentation. Jones Edmunds systematically inventoried and converted water and wastewater utility assets (piping, valves, pump stations) into a Comprehensive Information System capable of integrating with existing or upgraded GIS, SCADA, SMMS, CIS, Modeling Software, and other computer-management systems, including systems that are part of CCU's future implementation plans.



AREAS OF SPECIALIZATION:

- GIS software: ArcGIS and MapInfo 8.0

YEARS OF EXPERIENCE: 18

EDUCATION:

Bachelor of Arts, Geography,
University of Florida, 2007

Certificate, Climatology and
Meteorology, University of Florida

TERRI LOWERY

GRANT ADMINISTRATION AND PUBLIC INVOLVEMENT LEAD

Terri will serve as a resource to the team and Town on grant administration, which includes funding, public involvement, and regulatory assistance. She has more than 30 years of experience working with clients and technical staff on project funding strategies and public involvement programs. She is a registered lobbyist and assists with legislative tracking and grant pursuits, organizing and conducting funding workshops, and monitoring and reporting on legislative activities. Terri is also experienced in organizing and coordinating public meetings, media communication and celebration events in support of community milestone projects including developing presentation materials, establishing speakers' bureaus, organizing and conducting public meetings, and interfacing with the media. She has been featured in the Florida Today paper authoring an opinion-editorial article on Cities, Counties Need Plan to Switch Septic to Sewer and made numerous presentations on the topic of Septic to Sewer. Terri worked with the FWEA Utility Council on the development of a Septic to Sewer Guidance Document to assist local government with ideas on making this transition.

SELECTED PROJECT EXPERIENCE

[Southwest Regional Water Reclamation Facility Advanced Wastewater and Reuse Project | Citrus County | Client Services/Funding Specialist](#) Terri worked with the County to procure Springs and SRF dollars for the Advanced Wastewater Treatment Plant that will serve as the disposal facilities for the numerous planned septic to sewer projects in the Homosassa and Chassahowitzka Springsheds.

[Regional Water System and RO Water Treatment Plant | Putnam County | Client Services/Funding Specialist](#) Terri served as client liaison working closely with the County Administrator as well as the funding specialist for the project, which involved five different funding sources. She also negotiated user rates and a contract with the Department of Corrections.

[Regional Wastewater System and Treatment Plant | Putnam County | Public Information Specialist](#) Terri served as client liaison working closely with the County Administrator as well as the funding specialist for the project which involved two different funding sources. She also negotiated user rates and contract with the Department of Corrections.

[Knollwood Sewer System | City of Rockledge | Funding Specialist](#) Terri worked with the City to procure initial funding for the septic to sewer project. When unanticipated site conditions were uncovered during construction, she worked with staff to prepare presentation to the City Council regarding project cost increases and worked with the City to pursue additional funding for project completion.



AREAS OF SPECIALIZATION:

- Funding and Legislative Workshop Coordination
- Legislative Coordination and Support
- Community/Public Relations Programs
- Communication and Media Development
- Marketing Research and Promotional Activities

YEARS OF EXPERIENCE: 31

EDUCATION:

Bachelor of Science, Business Administration/Marketing, University of Florida, 1986

AUDREY JIMENEZ, CPSM GRANT ADMINISTRATION AND PUBLIC INVOLVEMENT

Audrey has 17 years of experience in marketing and public relations services and will support the Village and project team with Public Relations and Outreach activities. She is a Certified Professional Services Marketer (CPSM) through the Society for Marketing Professional Services. Audrey served on the Public Relations Committee of the Florida Engineering Society (FES) and has supported Florida cities and counties with public relations and community educational outreach efforts.

SELECTED PROJECT EXPERIENCE

[Southwest Regional Water Reclamation Facility Advanced Wastewater and Reuse Project | Citrus County | Public Relations Specialist](#) At the Southwest Regional Water Reclamation Facility's groundbreaking event, Audrey facilitated on-site project signage by coordinating logo approval and use through both the Florida Department of Environmental Protection (FDEP) and the Environmental Protection Agency (EPA). She also supported with event set-up and photography on the day of the event.

[Sewer Master Plan | Charlotte County | Public Relations Specialist](#) Audrey supported with the development of visual graphics, presentations, and other public outreach materials being used during stakeholder meetings, public workshops, and meetings with the County's Board of County Commissioners. She also supported with the graphic page layout of the Sewer Master Plan.

[Stormwater Utility Public Education and Outreach | City of Lake City | Public Relations Specialist](#) Audrey supported with the development of public notice and agenda for a Stormwater Utility Public Workshop that provided the public with an opportunity to learn more about and ask questions regarding the City's stormwater utility. She designed graphic boards for each information station, as well as a slideshow that offered an introduction and discussed why stormwater utilities are done and community benefits.

[Sweetwater Wetlands Park Ribbon Cutting Event | Gainesville Regional Utilities | Public Relations Specialist](#) Audrey supported with public relations planning, media outreach, and on-site event set-up/coordination with the media for the Sweetwater Wetlands Park ribbon-cutting event. She also helped with press release development and approval, coordinated with the City Mayor on an official quote regarding the project, helped promote project benefits through social media, and helped develop award applications to further promote and educate the public on the benefits of this project.



AREAS OF SPECIALIZATION:

- Public Relations
- Marketing and Outreach Services
- Agency Coordination
- Event Planning & Coordination
- Meeting Facilitation
- Social Media
- Website Maintenance
- Governance

YEARS OF EXPERIENCE: 17

EDUCATION:

Bachelor of Arts, English,
University of Florida, 2001

Minor, Landscape Architecture,
University of Florida

PROFESSIONAL CERTIFICATION:

Certified Professional Services Marketer (CPSM), #50438, 2011, FL

MICHELLE HAYS, MS, PG HYDROGEOLOGY / BRACKISH WELLS PROJECT SCIENTIST

Michelle has extensive experience providing geologic and environmental site assessment services and groundwater modeling support. She has experience performing rapid site assessments, geologic field investigations, and field sampling. Michelle is an expert in the development of hydrologic models including contamination fate and transport simulations. She is currently developing a hydrologic model to simulate the recharge to the Floridan aquifer from rapid infiltration basins.

SELECTED PROJECT EXPERIENCE

[ASR – Phase III and Phase IV | City of Oldsmar | Hydrogeologist](#) Michelle led the monitoring activities including coordinating with ASRus, reviewing and compiling data, and writing and submitting the reports to the City.

[ASR Initial Cycle Testing | City of Oldsmar | Hydrogeologist](#) Michelle oversaw the test boring for the ASR well and completed lithologic descriptions of the drill cuttings. She also oversaw the well capacity tests and groundwater sampling.

[Reuse Groundwater Monitoring Investigation & Permitting | City of Oldsmar | Hydrogeologist](#) Michelle performed lithologic descriptions of drill cuttings, collected and interpreted field water quality readings, and prepared a technical report describing the geologic and groundwater characteristics of the site.

[Effluent Disposal Evaluation | City of Leesburg | Hydrogeologist/ Project Manager](#) Michelle reviewed hydrogeological data for assessment of potential recharge zones and prepared the evaluation report. Jones Edmunds teamed with ASRus to evaluate and rank alternative disposal options and sites for the City's Canal Street and Turnpike WWTFs permitted plant capacity of 8 MGD.

[Groundwater Recharge Investigation | Polk County | Hydrogeologist](#) Michelle assisted in the development and calibration of a subregional groundwater flow model to evaluate the beneficial recharge potential of land application through RIBs.

[ASR Well Construction and Surface Facilities Design | City of St. Cloud | Project Scientist](#) Michelle reviewed the Well Completion Report and data prepared by others on the team. Jones Edmunds completed a Study of Effluent Disposal Alternatives with a Class V Recharge Well for reclaimed water as the cost-effective alternative for eliminating surface water discharges during wet weather.

[UIC Permit Renewal | City of Rockledge | Project Manager](#) Michelle led the team, oversaw the Mechanical Integrity Testing, and prepared the final report and renewal application.

[Flatford Swamp Recharge Well Project | SWFWMD | Project Manager](#) Michelle served as Project Manager and assisted with the permit application, feasibility study report, and preparation of the technical specifications and bidding documents.



AREAS OF SPECIALIZATION:

- Hydrogeological Investigations and Designs
- Water Supply Development
- Contamination Evaluations
- Groundwater Monitoring Plans and Flow Modeling
- Environmental Site Assessments
- Preparation and Implementation of Groundwater Monitoring Plans

YEARS OF EXPERIENCE: 13

EDUCATION:

Master of Science, Geological Sciences, University of Florida, 2004

Bachelor of Science, Environmental Studies, University of Nebraska, 2001

PROFESSIONAL

CERTIFICATION:

Professional Geologist, #PG2676, 2011, FL

MIKE CLARK, PE **ELECTRICAL/I&C**

Mike specializes in electrical engineering and design, computer modeling of water systems (both static and extended period simulations), pipeline design and inspection including corrosion protection and hydraulic analysis, and mechanical design. He has designed instrumentation and electrical systems for numerous general civil and utility projects as well as for solid waste management facilities, pumping stations, and well fields. His computer software experience includes various modeling and design programs as well as AutoCAD®.

SELECTED PROJECT EXPERIENCE

[US 301 Interconnect and Booster Pump Station | City of Zephyrhills | Project Manager](#) Mike helped the City with permitting and agreement language with FDOT. He led discussions with the City and project team about surveying, site issues, routing, bidding and contractor estimates, scheduling, the pump station installation, and testing.

[Reclaimed Water System Improvements at the Bradenton WWTF | City of Bradenton | Senior Engineer](#) Mike provided QA/QC including a peer review of the I&C design.

[Annual Report | Charlotte County | Senior Engineer](#) As the Electrical Technical Lead, Mike assessed the condition of electrical equipment at multiple CCUD sites, identified areas requiring improvement, and assisted with writing the final report.

[Airport Lift Station and Force Main | City of Zephyrhills | Project Manager](#) Mike is managing the project, including interacting with the City and the subconsultants. Jones Edmunds is providing design and permitting services for two traditional triplex lift stations whose force mains will manifold into a common force main from the location north of the airport to the City's WWTP.

[Keller New Transfer Pumping Station | Pinellas County | Senior Engineer](#) Mike served as Senior Project Engineer with the specific responsibilities for the design of power, control, and instrumentation for the replacement for an aging water pump station, including both high-service pumping and chemical addition for potable water as well as the integration into an existing system while maintaining operation throughout.

[Centralized Wastewater System – Phase II | Taylor Coastal Water & Sewer District | Senior Engineer](#) Mike served as the Senior Engineer for this project that designed and provided construction services for the low-pressure grinder pump collection system.

[Revitalize Water and Wastewater Systems | Kennedy Space Center | Project Manager](#) Mike served as Project Manager in the final KSC W/WW system upgrade. This project completed the extended design addressing virtually all KSC potable W/WW collection and distribution systems.



AREAS OF SPECIALIZATION:

- Electrical Engineering and Design
- Computer Modeling of Water Systems using both Static and Extended Period Simulations
- Pipeline Layout Design and Inspection
- Paving and Roadway Design
- Mechanical Design

YEARS OF EXPERIENCE: 40

EDUCATION:

Bachelor of Science, Electrical Engineering, University of Florida, 1990

PROFESSIONAL

CERTIFICATION:

Professional Engineer, #48898, 1995, FL

ANGELO G. BELLUCCIA, PE

TRAFFIC ENGINEERING



EXPERIENCE

- 30 Years

EDUCATION

- Bachelor of Science in Civil Engineering, University of South Florida, 1987

REGISTRATION

- Professional Engineer, Florida #46548, 1993

PUBLICATIONS

- "Triple Left Turn Lanes: Getting the First One Approved", Institute of Transportation Engineers (ITE) Compendium of Papers, 1998
- "Raised Pedestrian Crosswalk and Traffic Calming Improvements for Pedestrian Safety", ITE/Partnership for a Walkable America, 2006
- "Interchange Evaluation: Parclo and DDI", Florida Section ITE TRANSP0 2016 Presentation, November 2016

PROFESSIONAL ORGANIZATIONS

- Florida Institute of Consulting Engineers (FICE) Transportation Committee
- Florida Engineering Society (FES)
- ITE
- Transportation Safety Council
- American Consulting Engineers Council
- Ybor City Development Corporation Board Member, Tampa 2000-2010

Mr. Belluccia has more than 30 years of experience in the areas of transportation planning and engineering services including traffic design and operational analysis, transportation systems planning, master planning, regional impact analyses, land use planning, project development, corridor studies, and highway design. His project experience spans a broad range of facilities including roadways, land development, airports, rail, and seaports for the public and private sectors. Mr. Belluccia specializes in developing alternative transportation solutions to meet project goals. Throughout his career he has strategically planned and developed solutions for many complex transportation infrastructure and development projects in Florida.

SR 693 (Pasadena Avenue) Corridor Study from Shore Drive South to 66th Street, Pinellas County, Florida – FDOT District Seven. Principal/Quality Control Manager for this corridor study that includes conducting an analysis of the travel related problems, needs and issues, as well as developing solutions that support the community defined vision for the future. The scope includes identifying the cause and characteristics of issues relating to capacity, traffic operations, safety, access management, traffic signal timing, intersection lighting, freight movements, commuter vs. local trips, transit operations, as well as bicycle and pedestrian movements. Both the current and forecasted future travel characteristics and needs will be identified and a Corridor Alternatives and Strategies Report will be prepared to identify a series of goals and objectives to improve the corridor. A road diet, a dedicated Bus Rapid Transit lane, and two roundabout locations are only a few specific improvements that will be analyzed. A range of solutions, both short-term and long-term, will be developed, all with extensive input from area stakeholders throughout the study.

Engineering Services, Transportation Development and Design, Hillsborough County, Florida – Hillsborough County. Contract involves providing general/civil engineering services to support transportation capital improvements including but not limited to intersection improvements, new signals, traffic signal interconnection, road diets, complete streets, road widening, road resurfacing and reconstruction and bridge rehabilitation and replacement. Mr. Belluccia currently serves as Principal on five separate roadway resurfacing projects, which encompass over 12.05 linear miles of roadway, as well as two intersection studies.

Transportation Task Force (TTF) Priority Intersection Improvements North Dale Mabry Highway at Northdale Boulevard and North Lakeview Drive South PD&E and Design, Hillsborough County, Florida – Hillsborough County Public Works. Intersections were improved to increase the flow of traffic and reduce delay time by providing additional right and left turn lanes. In addition, they were updated to current design standards and sidewalk and bike lanes were added. Three geometric alternatives for each intersection were provided, based on TTF analysis findings. Queue lengths were determined and geometry for layouts relative to existing conditions were developed. Project also included preparing exhibits for PD&E reports and public meetings. Extensive coordination with the County, as well as coordination with FDOT for the access management permit was required. Final design involved roadway, traffic control, signing and pavement markings, signals, drainage, utility coordination/adjustment plans, and permitting.

TTF Projects Validation and Prioritization for Capital Improvement Projects, Hillsborough County, Florida – Hillsborough County. Project Manager responsible for providing analysis for delay/safety evaluations of approximately 230 intersections and 30 corridors for prioritization of improvements for the County's TTF.

ICON

DANIEL HENDRICKSON, PE

TRAFFIC ENGINEERING



EXPERIENCE

- 9 Years

EDUCATION

- Bachelor of Science in Civil Engineering, University of Florida, 2008

REGISTRATION

- Professional Engineer, Florida #76184, 2013

PROFESSIONAL ORGANIZATIONS

- Member, American Society of Civil Engineer
- Member, Institute of Traffic Engineers

Mr. Hendrickson has more than nine years of experience in transportation and roadway engineering. He specializes in traffic operations and design and is proficient in MicroStation, GEOPACK, Visual, Synchro, VISSIM, and HCS 2010. His responsibilities include traffic operations design and simulation, intersection/interchange operational analysis, design for roadway signing and pavement markings, signalization, lighting, data collection, as well as preparing traffic impact and signal warrant studies. Mr. Hendrickson has also served as a Project Manager on many task work order contracts and is known for his quick turnaround (often only one day) when preparing scopes and manhour estimates. Mr. Hendrickson worked with the Florida Department of Transportation (FDOT) District Seven for four years as a Professional Engineer Trainee, specializing in the traffic operations and roadway design departments.

Traffic Operations Design/Build Push Button Contract 3, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, Florida – FDOT District Seven. Project Manager and Engineer of Record for multiple minor design tasks including signal reconstruction, signing and pavement markings, and turn-lane modifications. Tasks are completed on accelerated schedules with scopes designed to solve specific safety or operational deficiencies. Descriptions for a few of the tasks Mr. Henderson has worked on are included below:

- I-175/SR 594 On-Ramp, Pinellas County
- SR 693 (66th Street) Access Management from Pasadena Avenue to 30th Avenue North, Pinellas County
- Installation of Pavement Markings at Various I-75 (SR 93A) and I-4 (SR 400) Interchanges, Hillsborough County
- SR 600 (Hillsborough Avenue) at Lincoln Avenue Offset Left-Turn Lane, Hillsborough County
- US 41/SR 45/South Tamiami Trail at CR 672/Big Bend Road, Hillsborough County
- SR 597/North Dale Mabry Highway at Mapledale Drive, Hillsborough County –
- Installation of Advanced Guidance Signs for various locations approaching I-75 and I-4, Hernando and Hillsborough Counties
- SR 60 (Courtney Campbell Causeway) Right-Turn Lane Extension and Access Road Speed Tables, Hillsborough County

District Wide Safety Studies and Minor Design, Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, Florida – FDOT District Seven. Project Engineer for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent “study types” encompassing a wide variety of traffic operational tasks including: intersection and signal warrant analyses, vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design. Our team routinely performs benefit-cost analysis using Highway Safety Manual criteria and tracks all safety projects.

ICON

KARDDY N. RODRIGUEZ, EI

TRAFFIC



EXPERIENCE

- 12 Years

EDUCATION

- Master of Civil Engineering in Transportation, University of South Florida, 2008
- Bachelor of Science in Civil Engineering, Universidad de los Andes, Venezuela, 2000

REGISTRATION

- Engineer Intern, Florida #1100016476, 2012

ACHIEVEMENTS/AWARDS

- Young Professional of the Year, 2010

Ms. Rodriguez is a Transportation Designer with more than 12 years of experience. She has seven years of experience in the areas of transportation, traffic operations and safety engineering, in addition to facilities inspection and construction coordination. She is proficient in MicroStation, AutoCAD, Civil 3D, GUIDESIGN, SYNCHRO, HCM, Geographic Information System (GIS), Visual Microsoft Project, and GEOPACK. Her responsibilities frequently include design for roadway signing and pavement markings, signalization, ITS, roadway reconstruction, lighting, and intersection improvements.

District Wide Safety Studies & Minor Design, Citrus, Hernando, Hillsborough, Pasco, & Pinellas Counties, Florida – FDOT District Seven. Engineering Intern for this task work order driven contract that includes roadside safety measures, lighting justification, intersection improvements, ADA, traffic flow improvements, bike lanes, and sidewalk connectivity – all to reduce the potential for crashes, injuries and fatalities. Additional scope elements include preparing informational/educational materials to provide safety training, providing Roadway Safety Audit (RSA) support, as well as providing Community Traffic Safety Team (CTST)/Local Agency support to assist with identifying municipal Local Agency Program (LAP) projects. In addition, the contract includes a number of independent “study types” encompassing a wide variety of traffic operational tasks including: collecting pedestrian and bicycle counts along various corridors to identify potential mid-block crossing locations, intersection and signal warrant analyses, multiple vehicle/pedestrian/bicycle traffic counts, corridor safety studies, crash analyses and reports, safety outreach and education, training, safety funding concept development, and minor design. Ms. Rodriguez’s responsibilities have included analyzing crashes and turning movement counts, as well as performing cost estimates for multiple tasks.

District Wide Community Traffic Safety Team Contract (CTST), Citrus, Hernando, Hillsborough, Pasco, and Pinellas Counties, Florida – FDOT District Seven. Project Designer for traffic and roadway engineering for two Local Agency Program projects. Elements of work included specifications and construction plans, along with full roadway and sidewalk design including streetscaping, crosswalks and curbcut ramps to meet ADA, decorative landscaping, coordination with stakeholders, and limited existing right-of-way. The first project was in Citrus County and provided Citrus Springs Middle School and Central Ridge Elementary School with approximately one-mile of “Safe Routes to School” roadway and sidewalk improvements along Citrus Springs Boulevard from North Deltona Boulevard to US 41 (North Florida Avenue). The second project provided full roadway/sidewalk design for the south side of McCoy Street from 600 feet west of Trask Street to East of Westshore Boulevard in the City of Tampa (16 miles).

US 19 (SR 55) RRR from New York Avenue to the Pasco/Hernando County Line, Pasco County, Florida – FDOT District Seven. Project included milling and resurfacing approximately 4.881 miles of a six-lane divided rural section of US 19 (SR 55). Project included designated bike lanes with keyways and adding sidewalk in each direction. Three signalized intersections: New York Avenue, Denton Avenue and Emerald Avenue/Little Road were also upgraded. Project Designer for signing and pavement markings, signals design, adjustment of existing ITS, and lighting.

TTF Priority Intersection Improvements at North Dale Mabry Highway at Northdale Boulevard and North Lakeview Drive South, Hillsborough County, Florida – Hillsborough County. Project Designer responsible for providing minor signalization, lighting, and signing and pavement markings in support of future design.

ICON

Mark B. McNeal, PG

Mr. McNeal is **Chief Executive Officer** for **ASRus, LLC**. Mr. McNeal has 33 years of experience in hydrogeologic investigations in Florida, including project management of ASR, deep well injection, reuse, and water supply projects; design and permitting, well construction inspection; data analysis; geophysical logging and interpretation; aquifer pumping test design and analysis; system startup; well rehabilitation activities, mechanical integrity testing, and operational cycle testing. He is well known with FDEP and EPA Region IV for unique approaches and strategies in UIC permitting.

Representative ASR and Aquifer Recharge Projects

City of Bradenton Potable Water ASR and Aquifer Recharge – ASRus is the prime consultant providing permitting, design, and construction services for the ASR expansion for the City of Bradenton at its Evers Reservoir WTP. Mr. McNeal has served as the Sr. Hydrogeologist for this project which will expand the City's ASR program by up to three additional ASR wells and up to 6 mgd of additional capacity. He also prepared a feasibility study for a Class V aquifer recharge well at its WWTF and assisted the City with SWFWMD cooperative funding for this well that is expected to begin construction in 2017.

Tampa Electric Company, Polk County – Mr. McNeal designed, permitted, and is currently providing deep injection well related services for two 8,000-ft deep Class I deep injection wells for industrial wastewater disposal in Southwest Polk County into the sub-Floridan aquifer (upper Cretaceous) permeable units. The wells came online in March 2015. He is currently assisting with Class I Operation Permits for the wells.

SWFWMD, Flatford Swamp, Partially Treated Surface Water Recharge – Mr. McNeal was the Senior Hydrogeologist for feasibility evaluation, permitting, and well design for a project designed to restore water levels in the Most Impacted Area of the Southern Water Use Caution Area. A permit was received for this landmark project that will allow the District to store water non-disinfected surface water containing coliform bacteria in a fresh to slightly brackish aquifer in eastern Manatee County.

Manatee County, Reclaimed Water ASR – Mr. McNeal was the Senior Hydrogeologist for a project to evaluate and implement a reclaimed water ASR program. Mr. McNeal provided significant input into the permitting of the initial reclaimed water ASR well in the County. He continues to support the County's reclaimed water ASR program, recently assisting with permitting activities to resume cycle testing at this site.

Peace River Manasota Regional Water Supply Authority – Mr. McNeal has been actively involved with the Peace River ASR System since about 1990. This is the largest ASR system in the eastern US. He helped the Authority obtain an Operation permit for its ASR system, which required an exemption for arsenic concentrations that may occur during use. He is currently leading the effort to modify the system to a partially treated surface water ASR system that will utilize a ZOD for compliance.



Education

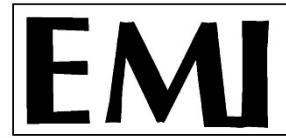
- B.S., Geological Engineering, Brigham Young University, 1984

Professional Registrations

- Professional Geologist: Florida (#1231)

Years with ASRus

- 12 years



Willard C. Hoanshelt, P.E.
EMI Consulting Specialties, Inc.

Education: BSEE, Florida
Atlantic University, 1986

Professional Registration: Professional Engineer No. 42593



Qualification Summary:

Mr. Hoanshelt is highly qualified in electrical and instrumentation control engineering, with specific expertise in roadways, theme parks, and parking lighting and the water and wastewater industry. He is qualified to engineer and design electrical power distribution and lighting system for both low and medium voltage systems. His expertise in electrical machines and variable speed drivers provide bases for his energy management studies.

Mr. Hoanshelt's expertise in instrumentation and controls includes computer based data acquisition systems, programmable logic controls, analog loop and discrete conventional control systems, flow and analytical meter evaluation and selection.

Experience

EMI Consulting Specialties, Inc.
1991- Present: President

Oldsmar Membrane Softening Water Treatment Plant

The project included computer based data acquisition system utilizing real-time data acquisition with a programmable logic controller networked to a PC computer, monitor and printers. Remote wellfield communications via a redundant ring fiberoptic network. Flow metering, level and analytical instrumentation were implemented

Palm Bay Membrane Softening Water Treatment Plant

The project included the design of a 480-volt power distribution system with standby generator for a reverse osmosis water plant. This project included a computer based data acquisition system utilizing real-time data acquisition with a programmable logic controller networked to a PC computer, monitor and printers. Flow metering, level and analytical instrumentation were implemented

City of New Smyrna Beach 6.0 MGD Wastewater Treatment Plant

This project included the power and distribution of normal and emergency power to the wastewater facility motor, lighting and miscellaneous loads. Also responsible for the computer based data acquisition and monitoring system design with field analytical and process instrumentation including telemetry.

City of Orlando CR-535 Water Treatment Plant

The project included the design of a 480-volt power distribution system with standby generator for a water plant. This project included a computer based data acquisition system utilizing real-time data acquisition with a programmable logic controller networked to a PC computer, monitor and printers. Networking of the plant control system via a frame relay system. Flow metering, level and analytical instrumentation were implemented.



John V. Sobczak, PE
Principal
Wekiva Engineering, LLC

Summary

Mr. Sobczak has 13 years' experience working in the water and wastewater industry. His experience encompasses both structural and structural/geotechnical engineering. His experience focuses on the inspection, analyses, modeling, and design of environmental and municipal structures. He is also experienced in many computer aided design software such as STAAD, Robot, SAFE, Visual Slope, and Revit.

Experience

Mr. Sobczak's responsibilities include the preparation of structural design calculations and contract documents for water and wastewater treatment facilities and various industrial facilities. He has provided services to many governmental agencies, industrial concerns, consulting engineers, and architect/ engineers. Mr. Sobczak's structural engineering experience includes design of several types of sanitary structures, myriad industrial, municipal buildings, and facilities along with water conveyance structures, dams and earth retention structures.

An exemplary listing includes:

- EWRP Phase IV-C, Orange County, FL
- EWRP Phase V, Orange County, FL
- Shady Hills WWTP Expansion, Pasco County, FL
- Tampa Bay Regional WTP Expansion, City of Tampa, FL
- UCF Football Stadium, University of Central Florida, Orlando, FL
- Lake Charles Plant B/C Expansion, City of Lake Charles, LA
- Red River WWTP Expansion, City of Bossier City, LA
- Big Airline Pump Station, City of Bossier City, LA
- City of Baton Rouge Wastewater Collection Complex, City of Baton Rouge, LA
- South Inland Pump Station, City of Bossier City, LA
- Diamondhead WWTP, City of Diamondhead, MS
- Greenwood WWTF, City of Greenwood, MS
- Efrain A. Duran WTP, City of Rio Grande, TX
- Weslaco WTP Expansion, City of Weslaco, TX
- Galveston Main WWTP Reconstruction, Galveston, TX
- El Metro Phase Transit Services Maintenance, Operations, and Administration Buildings, City of Laredo, TX
- Seeling Channel Phase I, City of San Antonio, TX
- Bay Park STP Raw Sewage Pumping System Improvements, Nassau County, NY

Education

M.S. Structural Engineering, University of Central Florida, 2007
B.S. Mechanical Engineering, University of Central Florida, 2005

Registration

Professional Engineer: Alabama, Arizona, Florida, Louisiana, Mississippi, New York, Pennsylvania, South Carolina, Texas, North Carolina

SUBTAB 8

KEY PERSONNEL TO BE INVOLVED IN THE
PROVISION OF THESE SERVICES

SUBTAB 8.
KEY PERSONNEL



8. KEY PERSONNEL TO BE INVOLVED IN THE PROVISION OF THESE SERVICES

The Jones Edmunds team, including subconsultant firms, proposed on this continuing services contract have the technical knowledge, experience, and resources needed to provide the most cost-effective and responsive service to fulfill the requirements of this RFQ and support the Town of Belleair in meeting its goals.

When Lisa Rhea, Project Manager, was the Director of Public Works for Oldsmar, she participated in the “MoM” group with David and the Pinellas MS4 community with Keith. Interacting with other local utilities and discussing current issues really helped her to develop a deeper appreciation for how quality of life is impacted by the daily efforts of dedicated professionals. She understands and appreciates the dedication of Belleair staff in providing their residents with high-quality services, including reliable drinking water to responsible stormwater management. She is looking forward to working with them on this continuing services contract.

Name Title Specialties Degree	Registration Years of Experience	Relevant Experience
Lisa Rhea, PE Project Manager and Grant Administration Environmental Engineering and Chemistry Master of Science and Bachelor of Science	PE #69210 14 years	<ul style="list-style-type: none"> ▪ Downtown Water Main City of Oldsmar ▪ Reclaimed Water Master Plan City of Oldsmar ▪ Water Reclamation Facility Screw Press Dewatering System City of Oldsmar ▪ WRF Aeration Assessment City of Oldsmar ▪ Harbor Palms Infrastructure Improvements City of Oldsmar
Erin Hunt, PE Project Principal Environmental Engineering Bachelor of Science	PE #56792 21 years	<ul style="list-style-type: none"> ▪ Corrosion Control Study City of St. Cloud, FL ▪ Arsenic Treatment Evaluation City of Lincoln, NE ▪ Southwest System Water Master Plan City of Leesburg, FL ▪ Water System Facilities Master Plan Lincoln, NE ▪ Water Treatment Plant Design City of Ames, IA ▪ Florence Water Treatment Plant Improvements Omaha, NE ▪ Phase IV Water Treatment Plant Expansion City of Blair, NE
Rich Koller, PE, LEED AP QA/QC Environmental Engineering Bachelor of Science	PE #49947 LEED AP #10657400-AP-BD+C 27 years	<ul style="list-style-type: none"> ▪ Reclaimed Water System Extension Braden River Utilities, LLC (BRU) ▪ Central Regional Water Production Facility Design Polk County ▪ 17/92 Reclaimed Water Main Polk County ▪ Water System Improvements Town of White Springs ▪ NASA Revitalize Water and Wastewater Systems Kennedy Space Center

8. KEY PERSONNEL TO BE INVOLVED IN THE PROVISION OF THESE SERVICES

Name Title Specialties Degree	Registration Years of Experience	Relevant Experience
Harold Bridges, PhD, PE Technical Advisor Sanitary and Civil Engineering Doctorate, Master of Science and Bachelor of Science	PE #22016 52 years	<ul style="list-style-type: none"> ▪ Water and Wastewater Rates Review City of Bartow ▪ Raw Water Main Relocation, US 301 to 45th Street East City of Bradenton ▪ Water Treatment Plant St. Johns County ▪ Total Water Management Plan (TWMP), Pipeline Design Segment 6 JEA ▪ Northeast Water Treatment Plant High Service Pump System Improvements – Design and Professional Services during Construction St. Johns County ▪ Eastside Wastewater Transmissions System Improvements City of Bradenton
Walt Nickel, PE Technical Advisor Civil Engineering Bachelor of Science	PE #68638 32 years	<ul style="list-style-type: none"> ▪ Sweetwater/Paynes Prairie Sheetflow Restoration Final Design Gainesville Regional Utilities (GRU) ▪ Masters Tract Regional Stormwater Treatment Facility St. Johns County ▪ Tumblin Creek Final Design City of Gainesville ▪ Burbank and Douglas Roads Peer Review City of Oldsmar ▪ Pavement Management Program Construction Administration St. Johns County
Jeff Crowley, PE, CCM, PMP, LEED AP Construction and Inspection Civil and Environmental Engineering Bachelor of Civil Engineering	PE #79244 20 years	<ul style="list-style-type: none"> ▪ Gus Stewart WPF Conversion to RCW Polk County ▪ WRF Screw Press Dewatering System City of Oldsmar ▪ Reclaimed Water System Improvements City of Bradenton ▪ Oxidation Ditch Headworks and Aeration System Improvements City of Bradenton ▪ ASR Well Construction and Design of Surface Facilities City of St. Cloud ▪ Master Lift Station Construction Services City of Winter Haven ▪ East Port Water Reclamation Facility – Stage 5 Improvements Charlotte County
David Jones General Civil/Stormwater Civil Engineering Bachelor of Science	PE #44714 GISP #00061924 31 years	<ul style="list-style-type: none"> ▪ Curlew Creek Watershed Management Plan (WMP) Pinellas County ▪ McKay Creek Watershed Management Plan Pinellas County ▪ Cross Bayou Watershed Management Plan Pinellas County ▪ Stormwater Inflow Reduction Planning Pinellas County ▪ Stormwater Management Plan City of Bradenton

8. KEY PERSONNEL TO BE INVOLVED IN THE PROVISION OF THESE SERVICES

Name Title Specialties Degree	Registration Years of Experience	Relevant Experience
Tom Friedrich, PE, BCEE Water/Wastewater Environmental Resource and Engineering, and Forest Biology Master of Science and Bachelor of Science	PE #61281 BCEE #01-10041 28 years	<ul style="list-style-type: none"> ▪ 9-MGD MIEX Water Treatment Plant City of St. Cloud ▪ Oxidation Ditch Headworks and Aeration System Improvements City of Bradenton ▪ Water Quality Management Plan Sarasota County
Bruce Myhre Pavement Management Doctorate, Master, and Bachelor, Agricultural Engineering	PE #50634 26 years	<ul style="list-style-type: none"> ▪ Pavement Management Program Construction Administration St. Johns County ▪ Pavement Management Work Plan St. Johns County ▪ Pavement Management System City of Miami Beach ▪ Holmes Blvd – West King Street Drainage Improvements St. Johns County ▪ Hogtown and Possum Creek Culvert Design City of Gainesville
Khan Boupba GIS/Asset Management Master of Engineering, Water Resources Bachelor of Science, Environmental Engineering,	PE #67549 GISP #00003122 18 years	<ul style="list-style-type: none"> ▪ Stormwater Utility Impervious Mapping Pinellas County ▪ Stormwater Mapping Phases 1 & 2 Pinellas County ▪ Elevation Certificate Mapping Pinellas County ▪ GIS Support Services City of St. Cloud ▪ ArcGIS Configuration Bonita Springs Utilities, Inc.
Terri Lowery Grant Administration and Public Involvement Business Administration / Marketing	31 years	<ul style="list-style-type: none"> ▪ Southwest Regional Water Reclamation Facility Advanced Wastewater and Reuse Project Citrus County ▪ Regional Water System and RO Water Treatment Plant Putnam County ▪ Regional Wastewater System and Treatment Plant Putnam County ▪ Knollwood Sewer System City of Rockledge

8. KEY PERSONNEL TO BE INVOLVED IN THE PROVISION OF THESE SERVICES

Name Title Specialties Degree	Registration Years of Experience	Relevant Experience
SUBCONSULTANTS		
Angelo Belluccia, PE Traffic Engineering Bachelor, Civil Engineering	PE #46548 30 years	<ul style="list-style-type: none"> ▪ SR 693 (Pasadena Avenue) Corridor Study from Shore Drive South to 66th Street Pinellas County ▪ Engineering Services, Transportation Development and Design Hillsborough County ▪ Transportation Task Force (TTF) Priority Intersection Improvements North Dale Mabry Highway at Northdale Boulevard and North Lakeview Drive South PD&E and Design Hillsborough County ▪ TTF Projects Validation and Prioritization for Capital Improvement Projects Hillsborough County
John Sobczak, PE Structural Structural and Geotechnical Engineering Master of Science and Bachelor of Science	PE #71407 13 years	<ul style="list-style-type: none"> ▪ EWRP Phase IV-C Street Orange County ▪ EWRP Phase V Orange County ▪ Shady Hills WWTP Expansion Pasco County ▪ Tampa Bay Regional WTP Expansion City of Tampa ▪ UCF Football Stadium City of Orlando
Mark McNeal, PG Hydrogeology/Brackish Wells Bachelor, Geological Engineering	PG #1231 31 years	<ul style="list-style-type: none"> ▪ Potable Water ASR and Aquifer Recharge City of Bradenton ▪ Tampa Electric Company Polk County ▪ Flatford Swamp, Partially Treated Surface Water Recharge SWFWMD ▪ Reclaimed Water ASR Manatee County ▪ Peace River Manasota Regional Water Supply Authority
Willard C. Hoanshelt, PE Electrical/I&C BSEE	PE #42593 32 years	<ul style="list-style-type: none"> ▪ Membrane Softening Water Treatment Plant City of Oldsmar ▪ Palm Bay Membrane Softening Water Treatment Plant City of Palm Bay ▪ 6.0 MGD Wastewater Treatment Plant City of New Smyrna Beach ▪ CR-535 Water Treatment Plant City of Orlando

SUBTABS 9-10

OUTSIDE ASSOCIATES AND CONSULTANTS /
SUBCONSULTANTS

SUBTABS 9-10,
SUBCONSULTANTS



9. – 10. OUTSIDE ASSOCIATES AND CONSULTANTS / SUBCONSULTANTS

SUBCONSULTANT FIRM OVERVIEW

To serve the needs of this contract, Jones Edmunds has partnered with ICON for traffic engineering services, ASRus for hydrogeology and brackish wells engineering support, EMI for electrical engineering and instrumentation and control services, and Wekiva for structural engineering services.



ICON CONSULTANT GROUP, INC.

Jones Edmunds and ICON have worked together on projects for the past 2 years.

ICON Consultant Group, Inc. was founded in 1999 and offers a wide array of services that includes all phases of project delivery from the planning phase to construction services. ICON has performed many projects with Hillsborough County. The firm is a Hillsborough County certified Minority/Woman Business with specialization in stormwater/drainage design and permitting, environmental science, roadway design, traffic control analysis/plans, and various traffic planning and engineering activities. ICON's projects include stormwater design, bridge hydraulics, drainage investigations, impaired water quality treatment train designs, PD&E studies, roadway design, site civil design, and stormwater and environmental permitting. Their permitting experience includes extensive Water Management District construction and conceptual applications (ERP), construction observation, FDEP, FDOT Right-of-Way use and drainage construction, and FEMA Letter of Map Amendments (LOMAs) and Letters of Map Revisions (LOMRs).

Address: 10006 Dale Mabry Hwy # 201, Tampa, FL 33618

Specific Services: Traffic Engineering

Name of Last Joint Project: Dunedin – Watershed Management Plan (in progress)



ASRus, LLC

Jones Edmunds and ASRus have worked together on projects for the past 13 years.

ASRus, LLC, a locally-owned small hydrogeology firm, was formed in 2006 and is located in Tampa. ASRus is a certified SBE with Hillsborough County and the City of St. Petersburg. ASRus has a significant reputation for leading AR projects across Florida. ASRus' Chief Executive Officer, Mark McNeal, PG, has over 31 years of Florida water resources experience in designing, permitting, and overseeing construction of numerous benchmark projects and remains a recognized leader in reclaimed water ASR and unique AR applications. Mark has been instrumental in developing reuse and underground injection rules in Florida and has worked on nearly every FDEP UIC group of Class V wells in the State – no other water resource professional brings this level of experience and understanding to FDEP permitting concepts. In Oldsmar, ASRus has been involved with the reclaimed water ASR project since designing the exploratory well through the current Operating Permit application and with the Deep Injection Well Mechanical Integrity Testing and Permitting. Working with Jones Edmunds, ASRus helped develop a unique acidization approach for the reclaimed water ASR, reducing the cost significantly while making the process safer for City, contractor, and engineering staff. ASRus is leading the charge for AR in the State and is leading or in a significant role in seven Florida Class V AR projects that range from reclaimed water, industrial process water, to raw surface water, mostly within an underground source of drinking water. We worked closely and effectively with the ASRus Team over the past 13 years on UIC and ASR projects, including for Oldsmar, Bradenton, St. Cloud, and Rockledge. We are working together with SWFWMD to provide aquifer recharge in east Manatee County's Flatford Swamp area with a deep injection well.

Address: 13329 North Armenia Ave., Tampa, FL 33613

Specific Services: Hydrogeology and Brackish Wells Engineering

Name of Last Joint Project: Bradenton - Aquifer Recharge Well (in progress)

9. – 10. OUTSIDE ASSOCIATES AND CONSULTANTS / SUBCONSULTANTS



EMI CONSULTING SPECIALTIES, Inc.

Jones Edmunds and EMI have worked together on projects for the past 12 years.

EMI Consulting Specialties, Inc. was founded in May 1991 to serve the technical requirements of the civil and environmental sectors. EMI has specialized in disciplines related to potable water and wastewater, roadway, stormwater, and facility systems. Their expertise is in power, lighting, and control and instrumentation systems required to serve the civil and environmental arena. Jones Edmunds has worked with EMI since 2006 and is currently working with EMI on several water and wastewater projects in the Tampa Bay area.

Address: 5742 River Bed Road, Groveland, FL 34736

Specific Services: Electrical and Instrumentations and Controls Engineering

Name of Last Joint Project: Clearwater – North East WRF Blend Tank (in progress)



WEKIVA ENGINEERING, LLC

Jones Edmunds and Wekiva have worked together on projects for the past 2 years.

Wekiva Engineering, LLC provides structural engineering services to an array of industry sectors including water and wastewater facilities, solid waste facilities, and commercial buildings. Their highly experienced and talented engineers have been providing cost-effective solutions and exceptional results for our clients throughout the Southeast United States. Jones Edmunds has worked with Wekiva since its inception and is currently working with Wekiva on several water and wastewater projects in the Tampa Bay area.

Address: 711 N. Orange Ave., Suite A, Winter Park, FL 32789

Specific Services: Structural Engineering

Name of Last Joint Project: Clearwater – North East WRF Blend Tank (in progress)

WORKING WITH LOCAL BUSINESSES

Jones Edmunds recognizes the importance of using local labor and resources to help stimulate the local economy; therefore, we regularly work and team with a variety of local consultants and suppliers who can be called on to support with tasks as needed for this project. **Specifically, for this contract we would contract with Suncoast Land Surveying, Inc. to provide the Town with land surveying and mapping services and Driggers Engineering Services to provide geotechnical services.** We believe in working with local firms because they have a vested interest in performing well for our mutual clients.

SUBTAB 11

EXAMPLE PROJECT WHICH TYPIFIES THE
PRODUCT OF THE FIRM



11. EXAMPLE PROJECT WHICH TYPIFIES THE PRODUCT OF FIRM

Jones Edmunds offers a breadth of technical and regulatory services in areas related to your needs. We focus on integrating our service areas to bring value to our clients through innovative ideas and solutions.

Civil Design

- Transportation
- Pavement Management
- Stormwater/Drainage Design
- Site Design
- Permitting

Utilities Infrastructure

- Potable Water
- Wastewater
- Reclaimed Water
- Master Planning
- Regulatory/Permitting

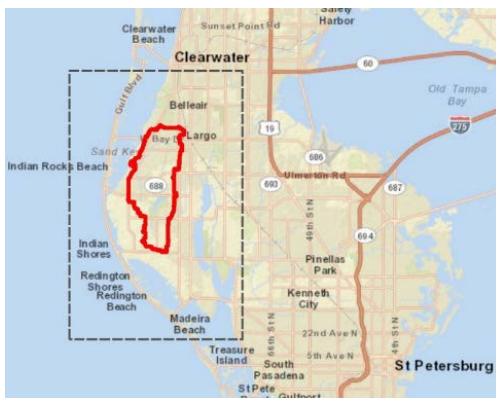
Water Resources

- Watershed Management
- Water Quality
- Low Impact Development
- Wetland and Environmental Services
- GIS and Software Implementation

Construction Services

- Construction Administration
- Grant Administration
- Resident Observation
- Cost Estimating

On the flash drive provided with our electronic copy of this proposal, we have also provided example of a work product that typifies the product of our firm. Jones Edmunds developed the [McKay Creek Watershed Management Plan](#) for Pinellas County and SWFWMD. This Plan incorporated the Digital Topographic Information, Watershed Evaluation, and Watershed Management Plan elements from the SWFWMD Guidelines & Specifications. The McKay Creek watershed comprises approximately 9 square miles in the west coastal portion of Pinellas County. The McKay Creek watershed is highly developed, with most of the watershed comprised of high-density residential and commercial land use. The watershed contains many open-channel and closed-conduit drainage features. Walsingham Reservoir and Taylor Lake are the two largest bodies of water within the watershed, excluding the major channels McKay Creek and Church Creek.



Further details of our services and examples of our work product are provided in Tab 12.

SUBTAB 12

REPRESENTATIVE MUNICIPAL PROJECTS
OR ENGINEERING SERVICES



12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

For 44 years, the heart of our firm has been serving local governments to address their engineering and construction administration needs. **This focus on local governments** not only provides us with a full understanding of the needs and issues facing the Town of Belleair, but also allows us to always keep the best interests of your citizens at the forefront. This reputation has been developed not only through our work with our clients, but also our active participation and leadership in organizations that matter to local governments such as the Florida Association of Counties and the Florida Water Environmental Association (FWEA) Utility Council. Our involvement and leadership in these organizations keeps us at the leading edge of issues that matter to you.

As a Florida-based firm, Jones Edmunds is dedicated to providing response, high-quality services to our clients. Jones Edmunds is working on a **continuing-contract basis with more than 50 clients in Florida, including cities, counties, and state and federal agencies**. This breadth of experience provides our staff with the range of expertise necessary to complete task-order engineering projects efficiently. More than 85% of our work stems from repeat business. **We have been working for most of these clients for 10 years or longer, which is a testament to the level of knowledge, service, and trust Jones Edmunds provides to our clients.**

Whether by continuing services contracts or discrete projects, we are familiar and have experience working with:

- The City of Clearwater Engineering Department since 2001 – see project sheets later in this section
- The City of Largo Engineering Department since 2007 – as a sub to Cardno on utilities projects
- Pinellas County Engineering Department since 1975 – see project sheets later in this section
- Florida Department of Environmental Protection since 1994 – on parks projects
- Southwest Florida Water Management District since 2003 – on watershed, groundwater, and environmental projects
- Florida Department of Transportation since 2014 – as a sub to ATM. Our subsidiary firm JEACES has been providing CEI services to FDOT since its inception in 1999

Furthermore, for the last three entities, we regularly engage with them and other agencies in all kinds of permitting:

- Water Use and Consumptive Use Permitting
- Water Treatment, Storage, and Distribution System Permitting
- Wastewater Treatment, Discharge, and Collection/Transmission Systems Permitting
- Reuse Permitting and Feasibility Reporting
- FDEP Operating and Construction Permitting
- National Pollutant Discharge Elimination System (NPDES) Permitting
- Operation and Maintenance Performance Reports
- Capacity Analysis Reports
- WQBEL Studies
- Mixing-Zone Analysis
- FDOT Permitting
- Southwest Water Management District Permitting

We also are FDOT pre-qualified in:

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 7.1 - Signing, Pavement Marking and Channelization

Jones Edmunds is thoroughly familiar with permitting requirements throughout Florida, including requirements at the federal, state, and local levels. Our team takes a stance as a strong advocate for our clients regarding permitting and regulatory issues. Jones Edmunds' approach is based on our sound technical and professional reputation with members of the regulatory community – a reputation that we have developed over the past 44 years.

In addition to the clients listed above, we provide similar continuing-contract services to clients throughout Florida. The following table provides a comprehensive listing.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

	Continuing Services Since*	B. Construction and Inspection	D. General Civil/Stormwater	E. Traffic Engineering	F. Water/Wastewater	H. Pavement Management	I. GIS	J. Grant Administration
Melbourne Beach, Town of	2007		X		X		X	X
Orange Park, Town of	2011		X	X		X		
Atlantic Beach, City of	2015		X		X			X
Bradenton, City of	1948	X	X		X		X	X
Bushnell, City of	2004				X			
Clearwater, City of	2001		X		X		X	X
Dunedin, City of	2017		X		X		X	
Gainesville, City of	1990		X					X
Haines City, City of	2010		X		X			X
Jacksonville Beach, City of	2006		X		X		X	X
Lake City, City of	2001		X		X			X
Leesburg, City of	2005		X		X		X	X
Newberry, City of	2005		X	X	X			X
Ocala, City of	2015		X		X			
Oldsmar, City of	2001		X	X	X			X
Orange City, City of	2016	X	X		X			
Palm Coast, City of	2008		X		X			X
Rockledge, City of	1988	X			X			X
Sarasota, City of	2015				X			
St. Cloud, City of	2003		X		X		X	X
Starke, City of	2009		X		X			
Tallahassee, City of	2012		X				X	
Tampa, City of	1997		X		X			
Venice, City of	2016		X		X		X	
Wildwood, City of	2016		X					X
Winter Haven, City of	2012	X	X		X		X	X
Zephyrhills, City of	2013				X			X
Alachua County	1992		X					X
Bradford County	2007	X	X					X
Brevard County	2004	X	X		X			
Broward County	2016							
Charlotte County	2005		X		X		X	X
Citrus County	2001	X	X		X			X
Clay County	1993		X					X
Escambia County	2003	X						X
Flagler County	2017		X					

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

	Continuing Services Since*	B. Construction and Inspection	D. General Civil/Stormwater	E. Traffic Engineering	F. Water/Wastewater	H. Pavement Management	I. GIS	J. Grant Administration
Hardee County	2016		X					
Highlands County	2008		X					
Hillsborough County	2017		X					
Indian River County	2018		X		X			
Jackson County	2005		X					
Lee County	2016	X	X					
Levy County	2017		X					
Marion County	1984	X	X		X	X	X	X
Monroe County	2017		X				X	
Pinellas County	1975		X		X		X	
Polk County	1996	X	X		X		X	X
Putnam County	1992	X	X		X			X
Sarasota County	2006	X	X		X		X	
St. Johns County	1993	X	X		X	X	X	X
Taylor County	1994		X					
Union County	2008	X	X					X
Volusia County	2007		X		X		X	X
Wakulla County	2000	X	X				X	X
JEA	1993				X			
Gainesville Regional Utilities (GRU)	1995		X		X		X	X
Florida Department of Environmental Protection (FDEP)	1994		X		X			X
Florida Governmental Utility Authority	2016				X			
NASA	1992		X	X	X	X		X
New River Solid Waste Association	2008	X	X					X
SJRWMD	1997		X				X	
SRWMD	1991							X
SWFWMD	2003		X					

* Contracts listed that have dates before 1974 were acquired through the acquisition of Smith and Gillespie. Jones Edmunds continues to work on a continuing basis for these clients.

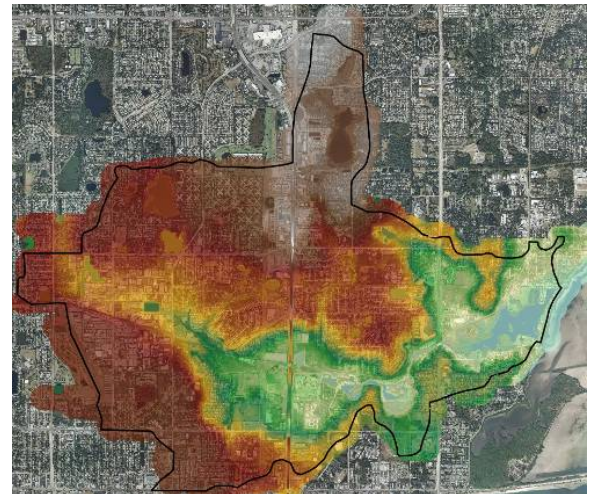
12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Clearwater

*Jones Edmunds has been working under a master contract with the City of Clearwater since 2001, serving as the City's Engineer of Record since 2006 under a continuing engineering services contract for engineering disciplines including Wastewater and Water Utilities, Environmental, Hydrogeological, and Construction. Of our many projects for the City of Clearwater, one project that has particular relevance to the City of Belleair's needs is the **Alligator Creek Watershed Management Plan**.*

Client Name	City of Clearwater	
Contact Person and Phone Number	Elliot Shoberg, PE, Stormwater Manager 727.562.4748	
Project Starting and Ending Dates	11/2009–7/2014	
Consultant Cost	\$940,108.00	
Construction Cost	Estimate: \$3,573,521	Actual: \$3,622,851
Original Estimate of Time Completion Schedule	7/2014	
Actual Completion Schedule	7/2014	

Jones Edmunds conducted a multi-phased Watershed Management Plan for the 8.6-square-mile Alligator Creek Watershed under the Southwest Florida Water Management District Guidelines and Specifications. Our tasks included generating a Digital Terrain Model and providing a memorandum reviewing the data, evaluating and assembling the Watershed Feature Data, performing a hydrologic and hydraulic feature inventory, conducting field reconnaissance, identifying survey needs, developing preliminary junction/reach coverage, submitting a Watershed Evaluation Report (including a final watershed evaluation TSDN, estimating costs to complete surveys, and a final watershed evaluation GIS database), developing and verifying an ICPR model, creating floodplains for potential FEMA DFIRM updates, performing a Surface Water Resource Assessment (SWRA), evaluating flood control and water quality alternatives, presenting results at public meetings, and providing final deliverables.



We developed the water quantity model using ICPR. The urbanized nature of the watershed required a very detailed model (over 1,000 catchments and nearly 3,000 links) to accurately predict the flooding problem areas and assess potential alternatives. The prevalence of relatively well-drained soils with significant hydraulic conductivities led to widespread use of percolation modeling within the watershed. Recommended improvements will be used as the basis for SWFWMD cooperative funding applications.

One of the distinguishing features of the Alligator Creek watershed is Alligator Lake – a large freshwater lake that receives flow from the entire watershed prior to discharging into Old Tampa Bay. Alligator Lake has been verified as impaired by FDEP due to nutrients and dissolved oxygen. However, a more detailed analysis of the data shows that nutrients are relatively low and trending down and that previous violations of State water quality standards are likely not the result of excess nutrient loading. The SWRA helped to confirm this finding. As part of the SWRA, we also developed a pollutant-loading model (SIMPLE-Seasonal) that was used to help locate and assess water quality improvements and predict pollutant loadings to Alligator Lake.

Upstream of Alligator Lake is a series of constructed treatment and attenuation ponds. The backwater effects from that part of the system propagate far up into the watershed. As part of the alternatives analysis, we evaluated retrofitting the water control structures in this part of the system and developing an automated control schedule that would maximize flood protection and water quality benefits.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

As part of a separate phase, Jones Edmunds is working with the City to submit the revised floodplains to FEMA through the MT-2 application process. This work involves coordinating with FEMA and developing FEMA-ready products, including project narratives, Base Flood Elevation features, and FEMA-compliant flood hazard layers.

Additional Relevant City of Clearwater Projects:

Floodplain Management Program Improvements – The City hired Jones Edmunds to improve their overall Floodplain Management Program by modifying existing activities and incorporating supplementary activities consistent with the CRS objectives. The City has improved to a Class 6 community, saving residents 20% in flood insurance premiums for Special Flood Hazard Areas (SFHA) and 10% for areas outside the SFHA.



Alligator Creek Channel F Improvements – Jones Edmunds provided preliminary and final design plus permitting and construction-phase observation services for stabilizing an eroding stream channel (Channel F) in the City of Clearwater’s Alligator Creek and bringing the channel’s alignment back into the City’s drainage easement. The City undertook the project in response to long-time complaints from residents about the situation. Jones Edmunds’ specific activities included holding kickoff and final meetings with citizens and other stakeholders, developing plans and specifications, coordinating utilities, obtaining permits, and overseeing bid services. During the project Jones Edmunds worked with residents to minimize damage to private property

during construction and realignment. Since access for heavy equipment was difficult, work took place in the channel itself. Part of the project site intersected the City-County boundary, so we needed to coordinate the two jurisdictions. Other difficult aspects of the project included the need to adjust on site the gabion design of residential roof drains that drained into the channel to accommodate local drainage and to adjust the gabion design to save many of the large protected trees that had grown up along the channel.

Reclaimed Water Monitoring Well and Flow Meter Installation – Jones Edmunds designed three new monitoring wells, provided construction services and survey of all existing wells and new wells, and designed a flow monitoring system for a stormwater pond outfall to meet FDEP requirements.

Gas GIS Service Line Card Conversion – Jones Edmunds, as a subconsultant to Southern Cathodic Protection, helped the Clearwater Gas System (CGS) convert their gas distribution service lines to ArcGIS in support of CGS’ SPL implementation. The services lines were on microfiches of hardcopy service cards. CGS needed assistance converting the services lines into GIS and attributing the lines with selected information on each card. CGS had more than 5,000 microfiche services cards of existing customers that were not in the system. The service cards had maintenance records and other information about each line as well as a small sketch of the service lines. The service lines were drawn in different ways – some cards had dimensions allowing for relatively accurate digitization of the service line while other had been roughly sketched.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Pinellas County

*Jones Edmunds has been providing continuing services to Pinellas County since 1975. Jones Edmunds has two continuing contracts: utilities and water resources engineering consulting services. Of our many projects for the County, one project that has particular relevance to the City of Belleair's needs is the **Floodplain Management Planning Services**.*

Client Name	Pinellas County
Contact Person and Phone Number	Lisa Foster, CFM, Floodplain Administrator, 727.464.8962
Project Starting and Ending Dates	05/2014–10/2016
Consultant Cost	Engineering: \$157,280
Construction Cost	Estimate: NA Actual: NA
Original Estimate of Time Completion Schedule	NA
Actual Completion Schedule	NA

Jones Edmunds worked with Pinellas County to improve their floodplain management program. Through the Watershed Management Program element, we had already developed comprehensive studies for the Cross Bayou and McKay Creek watersheds. These studies were performed in accordance with Pinellas County and Southwest Florida Water Management District standards and included flood investigations, basin evaluation and modeling, GIS and model data maintenance, survey, and developing best management practices. The goal of the floodplain management program is to coordinate the efforts of various County initiatives, including the watershed management program, planning and development, emergency management, building and permitting services, and communications, among others. Jones Edmunds helped the County to improve their processes within various departments, and better align the County services with FEMA's Community Rating System (CRS) goals. Our services included:

- Interviews with County staff to help improve efficiencies and coordination between departments
- Flood investigations, including determining flooding hot spots, and dam break analyses
- GIS data development and maintenance for flood information
- Managing and maintaining elevation certificates
- Services to enable stakeholders to determine Base Flood Elevation
- Documenting standard operating procedures for stormwater maintenance
- Renderings and exhibits for public outreach
- Assisting County staff with their CRS verification cycle visits
- Reviewing/modifying the County's Local Mitigation Strategy
- Developing the County's Program for Public Information (PPI)

Jones Edmunds helped the County improve their overall CRS rating by jumping two classes and saving residents up to 25% in flood insurance premiums or over \$5.4 million annually. Jones Edmunds continues to help Pinellas County improve their floodplain management program by aligning stormwater management and maintenance practices with the overall floodplain management initiatives of the County. This includes helping the County to define additional elements in their watershed management plans to include water quality and future conditions modeling.

Additional Relevant Pinellas County Projects:

Water Distribution System Model Upgrades and Improvements – Jones Edmunds performed a comprehensive evaluation of the Pinellas County Utilities (PCU) water system operation and distribution water quality to determine solutions to persistent nitrification issues in the system and recommend improvements to reduce the flushing volume required to remediate the nitrification. We analyzed existing water system quality and developed strategies to control nitrification. Subsequently, we performed dynamic water quality modeling to plan the system improvements need to accomplish the project goals while yielding a high return on investment. We developed a plan that consisted of recommended operational adjustments and about \$14 million dollars' worth of capital improvements. We predicted that implementation of the proposed improvements would significantly reduce

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

needed flushing volume by over 300 MGY, resulting in significant cost savings. After implementation of the short-term improvements, comparisons of flushing volumes between FY 11/12 to FY 14/15 reveal an actual savings of about 400 MGY thus far, which equates to a cost savings of over \$1million per year in water purchased from Tampa Bay Water alone.

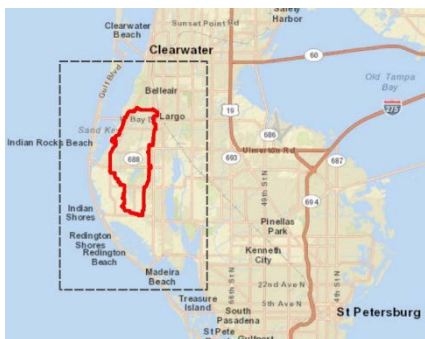
North County Sewer Modeling, Assessment, Asset Management – Jones Edmunds provided hydraulic modeling services that include sizing a replacement interceptor force main; implemented sanitary sewer self-cleansing mechanism; developed and calibrated a dynamic model of all existing pump stations, force mains, and pertinent gravity mains to assess overall system hydraulic performance; and recommended pump station and force main replacements/ improvements.

“Jones Edmunds was able to respond rapidly to provide the County with recommended sewer force main sizes for the ruptured sewer main. Jones Edmunds’ commitment to service and staff expertise is why they are one of our preferred consultants.”

*Tom Menke, PE
Project Manager*

Keller Water Treatment Plant 45-MGD Pumping Station and Chemical Feed Facility Upgrades – Jones Edmunds provided planning, design, permitting, and construction-phase services to construct a new high-service/transfer pumping station and upgrades to the chemical feed facility. The project components included the following:

- 45-MGD high-service pump station including four 700-hp adjustable-speed pumping units.
- Control building rated for Category V hurricane.
- Sodium hypochlorite storage and feed systems for primary and secondary disinfection for 45-MGD pump station flow.
- Ammonium hydroxide feed system for secondary disinfection for 45-MGD pump station flow.
- Sodium hypochlorite storage and feed system for 80-MGD regional supply flow.
- Ammonium hydroxide feed system for 80-MGD regional supply flow.
- Sodium hydroxide feed system for 80-MGD regional supply flow.
- Upgraded SCADA system and added 2,500-kW medium-voltage generator system.
- Added new 48-inch-diameter suction header, 36-inch-diameter transmission main, and 60-inch-diameter transmission mains.



McKay Creek Watershed Management Plan – Jones Edmunds developed this Watershed Management Plan for Pinellas County and SWFWMD. This Plan incorporated the Digital Topographic Information, Watershed Evaluation, and Watershed Management Plan elements from the SWFWMD Guidelines & Specifications. The McKay Creek watershed comprises approximately 9 square miles in the west coastal portion of Pinellas County. The McKay Creek watershed is highly developed, with most of the watershed comprised of high-density residential and commercial land use. The watershed contains many open-channel and closed-conduit drainage features. Walsingham Reservoir and Taylor Lake are the two largest bodies of water within the watershed, excluding the major channels McKay Creek and Church Creek.

Elevation Certificate Mapping – Pinellas County requested support in mapping and digitizing approximately 5,000 municipal elevation certificates. Jones Edmunds developed a point feature class for each parcel with an elevation certificate and transferred attributes from the elevation certificates to the point feature class. The original scanned municipal elevation certificates were hyperlinked for easy reference by the County. Elevations were all converted to a common vertical datum (NAVD88). These data were used to support and improve the County’s FEMA Community Rating System classification.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Oldsmar

*Jones Edmunds has been serving the City of Oldsmar under a continuing services contract since 2001. Under this contract, we have provided Utilities, Water Supply, Water Resources, Civil Design, GIS/Ecology, Environmental, and Construction Administration services. Of our many projects for the City of Oldsmar, one project that has particular relevance to the City of Belleair's needs is the **Downtown Water Main**.*

Client Name	City of Oldsmar
Contact Person and Phone Number	Johna Jahn Utilities Administrator / Asst. Public Works Dir. 813.749.1233
Project Starting and Ending Dates	03/2016-ongoing
Consultant Cost	Engineering: \$44,430 (Design) \$95,000 (Construction)
Construction Cost	Estimate: \$2,860,000 Actual: \$2,827,792 (bid – construction is ongoing)
Original Estimate of Time Completion Schedule	7/2019
Actual Completion Schedule	NA (construction ongoing)

In 2008, Jones Edmunds developed bid drawings and specifications for the replacement of galvanized steel piping and installation of reclaimed water mains in Downtown Oldsmar. Before the economic downturn, a portion of the project was constructed and the rest was left to be constructed later. In 2015, the City asked Jones Edmunds to update the Water System Hydraulic Model in anticipation of completing the project. The Model Update Report recommended some additional system improvements in the Downtown area to address system water quality deficiencies. We provided professional engineering services to assist with updating the 2008 design to complete the replacement of the galvanized steel piping and expansion of the reclaimed water system. Jones Edmunds attended meetings with staff to review the 2008 design drawings for water and reclaimed water. The reviews included:

- Discussion of the proposed changes from the updated hydraulic model
- Identification of major changes in the project area completed since 2008 that could impact the proposed water and reclaimed pipe work (e.g., street widening, sidewalk installations)
- Identification of areas of concern based on water quality or customer calls to ensure the design addresses these locations
- Review of detail sheets to ensure construction details conform to current City standards

After the review, Jones Edmunds completed the bid package including revised drawings and specifications. Jones Edmunds has received this Task Order to provide Construction Administration and Observation services for the construction phase of the project.

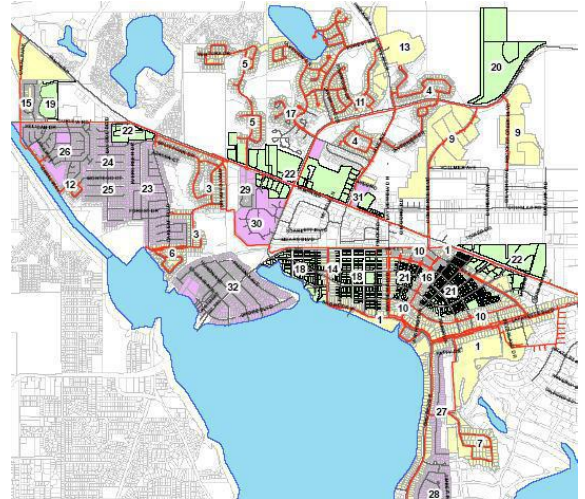
Additional Relevant Oldsmar Projects:

Utilities Relocation – Forest Lakes Boulevard – Pinellas County designed an expansion to Forest Lakes Blvd that will be bidding in June 2018. The City has utilities in the Forest Lakes Blvd ROW that need to be relocated during construction. The City asked us to complete the design of these relocations quickly so they can be included in the drawing set, which we delivered in under 2 months.

ASR Permitting, Well Construction and Oversight, Operation Testing – Jones Edmunds, teamed with ASRus, provided engineering services to the City of Oldsmar to design, permit, and construct a reclaimed water ASR system at the City's WRF to allow the City to store reclaimed water from the wet season, when supply exceeds demand, until the dry season, when peak demands limit the expansion of the reclaimed water system. More efficient use of reclaimed water will also allow the City to reduce surface water discharges from the WRF. The project was cooperatively funded by SWFWMD, which required us to coordinate with SWFWMD and assist the City with cooperative funding applications.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Reclaimed Water Master Plan – The City of Oldsmar’s Reclaimed Water (RCW) distribution system serves over 1,600 connections and provides RCW to Pinellas County to augment their RCW system. This system supplies residential, commercial, industrial, and wholesale customers and uses nearly 70% of Oldsmar’s available effluent from the Water Reclamation Facility (WRF). Jones Edmunds evaluated the existing RCW system and outlined a plan for expansion based on cost, anticipated use, and available supply with a specific focus on identifying new users in the two main industrial parks. The project was cooperatively funded by SWFWMD. The results were presented to the City and SWFWMD in a report with seven different hydraulic analysis of possible expansion areas.



Hydraulic Model of Oldsmar’s Water Distribution System – In 2005 Jones Edmunds developed a hydraulic model of the City’s water distribution system. In 2014 the City requested Jones Edmunds perform engineering services to augment the original Hydraulic Model of the City’s Water Distribution System. The work completed under this Work Order used data collected during summer 2014 (via RFQ2011-01, Work Order No. 10) to calibrate the model with respect to system hydraulics and free chlorine residual. The calibrated model results and collected water quality data were used by Jones Edmunds to evaluate and prioritize the replacement needs of the galvanized steel pipe in the downtown area and size the replacement piping. The overall system was considered but the focus was concentrated on the areas of red water complaints within downtown area.

Miscellaneous Engineering for Stormwater – Jones Edmunds is providing annual miscellaneous support for the stormwater utility to help with small regulatory items, minor operational items and other tasks as requested.

Forest Lakes/CSX Sidewalk – Jones Edmunds provided design services for modifications to the roadway, curbing, and sidewalks at the new pedestrian crossing at the intersection of Forest Lakes Boulevard and CSX railroad. The City of Oldsmar was required to make modifications as a result of CSX improvements.



Signal Study – Jones Edmunds reviewed the City's recent detailed traffic study for the intersection of Tampa Road and Bay Arbor/Emerald Bay that contained traffic counts and accident history to support our investigations. We then prepared a technical memo to support the added turn signal. FDOT reviewed the memo.

Harbor Palms Infrastructure Improvements – Jones Edmunds is providing new water and reclaimed distribution piping with new individual service connections to replace the existing substandard piping. Sidewalks and roadways are being assessed with the goal of abandoning the rear easement pipe and redirecting stormwater to the roadways.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Bradenton

*Jones Edmunds has been serving the City of Bradenton under a continuing services contract since 1948 (through our acquisition of Smith and Gillespie). Under this contract, we have provided Utilities, Water Supply, Water Resources, Civil Design, Transportation, GIS, and Environmental services. Of our many projects completed for the City of Bradenton, one project that has particular relevance to the City of Belleair's needs due to the innovative use of technology is **Water Treatment Plant – ASR Degasification Tower and ASR Well Pump Stations** summarized below.*

Client Name	City of Bradenton
Contact Person and Phone Number	Jim McLellan, PE, Engineering Section Manager, 941.708.6300
Project Starting and Ending Dates	05/2014–03/2018
Consultant Cost	Engineering: \$324,000 (Design) \$179,000 (Construction)
Construction Cost	Estimate: \$2,200,000 Actual: \$2,874,635
Original Estimate of Time Completion Schedule	03/2018
Actual Completion Schedule	03/2018

The primary source of water supply for the City's 12-MGD WTP is the Braden River stored in the Bill Evers Reservoir. As a part of a team Jones Edmunds was contracted by the City to provide permitting, design, and construction services for the ASR II System at the Evers Reservoir Site.



Jones Edmunds developed the pumping, piping, and vacuum degasification facilities to remove dissolved oxygen from the finished water prior to recharge to prevent arsenic mobilization in recovered water from the ASR-2 well. Finished water will be stored in the ASR-2 during the wet season and subsequently extracted to help meet potable water needs during the dry season. Recovered water from ASR-2 can be directed to one of four locations: the disinfection clearwell, deep-bed filters, or the head to the WTP based on the quality of the recovered water.

The work included an FDEP UIC construction permit, construction of the ASR II well head and monitoring wells, and design and bid documents for the surface facilities and degasification tower. The surface facilities include a degasification feed pumping system, a vacuum degasification unit, an ASR-2 injection pumping system, an ASR-2 well recovery pumping system, a pre-engineered fiberglass building for water quality analyzers, monitoring well pumping systems, yard piping, manual and motor operated valves, instrumentation and controls, and electrical equipment.

Construction services included Jones Edmunds developing separate a separate degasification tower procurement bid package and separate general construction of the degasification tower, ASR-2 pumps, piping, and controls. Construction-phase services will be completed in 2018 and include the construction administration, testing, and commissioning of an ASR-2 system.

The project received 50% grant funding from the SWFWMD Cooperative Funding Initiative. Related projects that Jones Edmunds has completed for the City include the WTP Re-Rating and ASR-1 Program, Braden River Utilities/Bradenton Reclaimed Water Interconnect and Reclaimed Water Extensions, Water Distribution System Hydraulic Model Update, and Eastside Sewer System Expansion.



12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Additional Relevant Bradenton Projects:

Water Distribution System Hydraulic Model Update/Water Facilities Plan – Jones Edmunds updated the City’s hydraulic model and developed a 10-Year Water Master Plan and \$30-million CIP for aging water line replacements. This approach is expected to save the City time and money by addressing all issues in the same area at once.

Water Distribution Water Quality Nitrification Study – Jones Edmunds worked with the City to address nitrification in the system. The work included using hydraulic modeling to analyze nitrification and residual chlorine.



Waterfront Park – This project included design and construction of improvements to Rossi Park along the Manatee River from the 9th Street West Bridge to east of the CSX railroad. Elements of the improvements included enhanced landscaping, brick pavers for the walkway along the bulkhead, an interactive fountain, a stage and amphitheater area, a playground, an open play area, and a memorial garden. Jones Edmunds’ services included preliminary engineering services, field data collection, permitting, and design services.

BRU\Bradenton Reclaimed Water Interconnect – Jones Edmunds provided preliminary engineering, final design, contract document preparation, and bidding-phase and construction-phase services for this project. The project consisted of reclaimed water transmission and distribution lines, pumping facilities, and a storage facility to interconnect with the City’s reclaimed water system and expand BRU’s irrigation storage transmission system.

Bill Evers Reservoir and ASR Program – Jones Edmunds prepared a re-rating report and permit application to increase the permitted capacity of the City’s WTP from the existing 8.0-MGD to a proposed 12.0-MGD capacity.

Perico Force Main Replacement – Jones Edmunds is designing a replacement for an aging 12-inch wastewater force main for the City. The new line will be designed to be installed using horizontal directional drill (HDD) methods to allow for deeper installation and minimize disruption to a heavily landscaped and developed park.

Lift Station 5 Replacement – Jones Edmunds developed a plan to rehabilitate or replace an old existing wet pit-dry pit type lift station. We then developed a preliminary design, cost estimate, and then final design documents for replacement based on our preliminary design report and City staff comments.

Drainage Improvements 10th Avenue East – At times, providing desired water quantity levels of service in a site-constrained urban area discharging to tide comes down to improving the storm sewer system and providing retrofit treatment where possible. For the 10th Avenue East project, Jones Edmunds performed a field investigation and evaluation to determine which drainage area was contributing to a problem with a storm sewer system. Improvements consisted of increasing the size of the stormwater drainage inlets along 10th Avenue East. Increasing the size of the storm sewer system and constructing additional stormwater drainage inlets resulted in more efficient collection and conveyance of stormwater runoff away from the area. Jones Edmunds made improvements including reconstructing the existing roadway, constructing new curb and gutter, and replacing existing underground utilities as necessary.



Old Main Street Improvements – The City initiated several projects designed to enhance the central business area and provide a resurgence of economic activity to the downtown area. Jones Edmunds completed street-reconstruction projects, including traffic-calming features, drainage and utility replacement, landscaping, irrigation, and lighting. Construction costs are estimated at approximately \$550,000 for the three-block area. The project required coordination with FDOT to address connections to FDOT facilities.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Zephyrhills

*Jones Edmunds has been serving City of Zephyrhills under a continuing services contract since 2013. Under this contract, we have provided Utilities and Water Supply services. Of our many projects completed for the City of Zephyrhills, one project that has particular relevance to the City of Belleair's needs is the **US 301 Interconnect and Booster Pump Station**.*

Client Name	City of Zephyrhills
Contact Person and Phone Number	John Bostic, III, Utilities Director 813.780.0008
Project Starting and Ending Dates	11/2013- 10/2017
Consultant Cost	\$298,930.00
Construction Cost	Estimate: \$2,130,000 Actual:\$2,050,000
Original Estimate of Time Completion Schedule	8/2017
Actual Completion Schedule	10/2017 (delays due to FDOT work)

Due to increasing growth, the City of Zephyrhills expects that its raw water production will reach capacity in the near future. As a result, the City has entered into an agreement with its neighbor, the City of Dade City, to purchase water to meet the City's future potable water needs. This water will be delivered to the City through a water main and booster pump station installed on the west side of US 301. Jones Edmunds performed the engineering design, hydraulic analysis, coordination and permitting with FDOT (while a parallel FDOT project was ongoing at the same time), provided construction services and start-up commissioning of the system. In addition, Jones Edmunds worked with the city and both the FDEP and SWFWMD to obtain legislative funding for the project. The elements of this project include the following:



- Install approximately 16,000 linear feet of 12-inch PVC water main within FDOT right-of-way along the west side of US 301.
- Install approximately 1,300 feet of 12-inch PVC water main within the CITY right-of-way along Kossik Road.
- Install horizontal directional drills at appropriate road and driveway crossings to minimize the interruption of local traffic.
- Install a pump station that will include adjustable-speed pumping designed to boost the pressure at the midway point between the two communities. This inter-connection also allows flow in the reverse direction from Zephyrhills to Dade City should the need arise.

Additional Relevant City of Zephyrhills Projects:

Airport Lift Station and Force Main – Because of proposed industrial development north of the airport, the City plans to build two traditional triplex lift stations (LS) whose force mains (FM) will manifold into a common FM from the location north of the airport to the City's wastewater treatment plant (WWTP). Jones Edmunds is providing design and permitting services for the installation of approximately 7,350 LF of 8-inch high density polyethylene (HDPE) FM and approximately 10,000 LF of 10-inch HDPE FM within the property, the County right-of-way (ROW), the City ROW in the vicinity of 6th Avenue, the Zephyrhills Municipal Airport, and Kittyhawk Drive. The FMs will connect to existing WWTP headworks. The project will also install two duplex LSs that comply with the City's standard design criteria on property identified by the CITY. One of the LS sites will be just south of 6th Avenue on the north end of the airport property and one of the LS sites will be on City-owned Parcel 06-26-22-0000-00200-0013. The LSs will comply with the manual design standards of the City.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES



Eastside Waterline Extension – As the City of Zephyrhills’ water needs have increased, they have been encouraged by SWFWMD to decrease demand in the Hillsborough River Basin and develop wells in the Withlacoochee River Basin. Following closure of the more centrally located wells, the south parts of the City have experienced some water pressure issues. Providing reliable water service and fire flow protection for its citizens is a priority for the City. To address this shortfall in fire flow and pressure to protect and serve the residents and businesses in the southeast portion of the City, this project extended a 12-

inch C900 PVC water main approximately 4.3 miles to connect water supplies from the Withlacoochee River Basin into an area of the City in the Hillsborough River Basin as requested by SWFWMD. Jones Edmunds assisted the City with coordinating with required regulatory agencies and with the State Legislature to procure state funding for this project. This water is delivered to the City through a water main installed on the south side of Pretty Pond Road, the west side of Forbes Road, the south side of Route 54, and the west side of Chancey Road, starting at Timber Crest Lane and ending approximately 0.5 mile east of Laurel Valley Boulevard. The elements of this project include the following:

- Installed approximately 23,000 feet of 12-inch C900 PVC water main within the City right-of-way. The water main connected to the City’s public water system at the intersection of Pretty Pond Road and Timber Crest Lane and at the intersection of Chancey Road and Laurel Valley Boulevard.
- Installed fire hydrants and isolation valves at maximum intervals in accordance with City standards and Florida Administrative Code (FAC) requirements.
- Installed horizontal directional drills at appropriate road and driveway crossings using high-density polyethylene pipe.

Technical Support As-Needed Services Planning/GIS – The City’s GIS staff is able to use Jones Edmunds staff as a direct extension for both technical support and additional labor as required. Providing the City assistance as needed alleviates the need for the City to bring on additional staff on a part-time or limited basis and allows staff to learn from the highly experienced team that Jones Edmunds provides.

Utility Standards Design Manual – Jones Edmunds assisted the City in creating standard designs to be used for water, wastewater, and reclaimed water utilities. The City will use this document to establish the minimum level of standard care for utility work within the community. Having standard and uniform design standards for Zephyrhills is critical to the long-term operations and maintenance (O&M), helping to reduce costs for this community. By providing a standard set of designs for utility infrastructure, the City will be able to reduce overall O&M costs by using common components rather than various disparate equipment. Using common off-the-shelf components will help reduce their spare parts inventory as well.



Environmental Monitoring Plan – Jones Edmunds prepared the Environmental Monitoring Plan (EMP) that is required by the City's Water Use Permit. After receiving approval of the EMP from SWFWMD, Jones Edmunds installed the monitoring stations and prepared a Baseline Report. The EMP will monitor whether adverse impacts could be occurring by evaluating conditions relative to the EMP Performance Standards.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Leesburg

*Jones Edmunds has been serving the City of Leesburg under a continuing services contract since 2005. Under this contract, we have provided Utilities, Water Resources, Civil Design, Solid Waste, Hydrogeology, GIS/Ecology, Environmental, and Construction Administration services. Of our many projects for the City of Leesburg, one project that has particular relevance to the City of Belleair's needs is the **Lee Street Pond and Canal Street Pond Drainage Improvements and Information Kiosk at Whispering Pines Basin**.*

Client Name	City of Leesburg
Contact Person and Phone Number	DC Maudlin, Director of Public Works
Project Starting and Ending Dates	5/2006–9/2009
Consultant Cost	\$174,929
Construction Cost	Estimate: Not available Actual: \$691,023
Original Estimate of Time Completion Schedule	9/2009
Actual Completion Schedule	9/2009



Jones Edmunds designed, permitted, and monitored two stormwater management facilities to address flooding and water quality concerns in the Whispering Pines Basin in Leesburg. Jones Edmunds began by conducting a project development and evaluation study for the City. We then designed and provided construction services for the two highest-ranked projects from the study – the Canal Street and Lee Street projects. These projects combine practical solutions that blend into communities and improve the quality of life while remaining a cost-effective way to address water quality issues.

The Canal Street project consisted of constructing 2-acre wet detention ponds on City-owned property along with several reaches of storm sewer to direct flows to the ponds. The pond provides retrofit treatment of stormwater from a portion of the downtown area. The Lee Street project consists of a wet detention pond followed by a 2-acre treatment wetland that were sized to for the most possible retrofit treatment within the available space. The treatment wetland takes advantage of on-site wetlands that needed to be restored. The wet detention pond/treatment wetland system maximizes phosphorus removal – the pollutant of concern in the TMDL – while maximizing the benefit to existing on-site wetlands. Jones Edmunds also designed a diversion structure and bypass channel to prevent excessively high flows from entering the ponds and re-suspending settled pollutants. Both treatment facilities were designed to be natural looking by curving the edges and varying the side slopes. Jones Edmunds incorporated other park features into the Lee Street site and developed public education kiosks describing the benefits of the Canal Street and Lee Street pond designs for both sites.

Jones Edmunds secured permits from SJRWMD and helped the City obtain grant funding from the Lake County Water Authority and the FDEP TMDL grant-funding program that covered most of the project costs. Post-construction monitoring results demonstrated a phosphorus-removal efficiency of approximately 85 percent.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Additional Relevant City of Leesburg Projects:

Beecher and Griffin Drainage – Jones Edmunds provided professional engineering services for the City to design and prepare permitting and construction/bid documents related to poor stormwater drainage conditions and localized flooding along Beecher Street at the Griffin Road intersection. We also provided services during construction.

SR 500 Utility Relocation – Jones Edmunds provided construction services for installation of over 1 mile of 12-inch ductile iron water main and associated construction in US 441 under a Joint Project Agreement with City of Leesburg and FDOT.



Design-Build Package for Venetian Garden Bridges – Jones Edmunds prepared design-build RFP documents and provided assistance in administering the contract. The project consisted of replacement of seven wooden bridges in Venetian Gardens Park, a 100-acre City-owned park along the west shore of Lake Harris. We established minimum design and construction prequalification and licensing requirements and prepared preliminary sketches. Jones Edmunds participated in evaluation of the design-build submittals and reviewed design submittals on behalf of the City

Oak Drive Water Main Upgrades – Jones Edmunds provided a detail design, permitting, and construction services to replace approximately 4,800 feet of 2-inch galvanized steel pipe with a 6-inch DR 18 PVC water main. This design required a lot-by-lot evaluation to minimize impacts and restoration cost. It included 60 new water service connections for homeowners, six new fire hydrants, and restoration of the construction site. We also performed construction services and prepared/submitted the FDEP certificate of completion documentation.

US 441 Utility Relocation – Jones Edmunds is preparing the construction documents for the relocation of utilities along US 441 from Perkins Street to Newell Hill Road for the City of Leesburg. The project will include the design of roughly 6,700 LF of sanitary gravity main, 11,800 LF of potable water main, 2,100 LF of sanitary force main and 9,200 LF of reclaimed water main. These new facilities will be constructed via Utility Work by Highway Contractor agreement between the City and FDOT.



Water System Model – Jones Edmunds is working on updating the City's water distribution system hydraulic model. This effort includes updated the pipe network in the model and demand projections to reflect current conditions and then calibrating the model. This model will be used as a part of master planning for the system to determine the ability of the City's existing supply and infrastructure to meet future needs.

Southwest Water Master Plan – Jones Edmunds is assisting the City of Leesburg with completing a Master Plan for the Southwest Potable Water Distribution System. This Master Plan will reflect the projected developments and associated increased demands for the southwest portion of the City through 2028. This plan includes evaluating the demands of the Highlands Lakes, Plantation, and Royal Highlands Service Areas; current CUP capacities; and system improvements required to meet the needs of these areas through the planning horizon.

City Standard CAD and Specifications – Jones Edmunds helped the City develop GIS-centric CAD standards to facilitate the migration of developer-provided CAD as-built data into the City's enterprise GIS. We reviewed the City's construction specifications and drawing details for water, sewer, reclaimed water, gas, roadway, and stormwater. Chapter 22 of the City ordinances was reviewed for general conformance with their specifications and details.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

City of Gainesville

*Jones Edmunds has been serving City of Gainesville under continuing services contract since 1990. Under various contracts, we have provided Stormwater/Drainage Design, Water Resources, and Permitting services. Of our many projects completed for the City of Gainesville, one project that has particular relevance to the City of Belleair's needs is our ongoing **Resident Observation Services**.*

Client Name	City of Gainesville
Contact Person and Phone Number	Peter Simms, PE, Water/Wastewater Engineer 352.339.1643
Project Starting and Ending Dates	12/2016–ongoing
Consultant Cost	\$595,000 (three tasks orders)
Construction Cost	NA*
Original Estimate of Time Completion Schedule	NA*
Actual Completion Schedule	NA*

Gainesville Regional Utilities' wastewater infrastructure, like most wastewater systems of its age, has a considerable inflow and infiltration (I&I) problem. The older parts of GRU's system consist mostly of clay and ductile iron pipe, and these older pipes have been identified as the main culprit with the infiltration problem. GRU, with support from Jones Edmunds, has implemented a program to rehabilitate the City's older wastewater infrastructure. The program involves:

1. Initial video inspection of the antiquated pipes.
2. Cleaning the pipes through mechanical cutting or chemical injection.
3. Follow-up video inspection of the cleaned pipe and preparation for the lining procedure.
4. Lining the pipe using cured-in-place pipe lining technology.
5. Final video inspection of the lined pipe and cutting the liner out at all connections to the newly lined pipe.



The program has already helped drastically decrease infiltration into the wastewater system. Initial flow measurements from a lift station – and comparing wastewater volumes from before the lining to volumes after the lining – show an almost 40% reduction in flow into the station. Due to these excellent initial results, GRU has expanded the program to include lining the lateral lines as well as implementing a manhole-lining program.

Jones Edmunds, working with GRU's Project Manager, is providing construction administration and full-time construction QA oversight of the pipe rehabilitation program. We are also helping GRU by expanding their Cityworks program for our construction representatives to use in the field to issue work orders directly into their system when we observe issues from the video inspections. The Jones Edmunds team is able to provide all expert services – from our construction team leading the field work, to our wastewater engineers assisting with data evaluation, to our GIS technicians and programmers who are experts with asset management systems such as Cityworks – to help GRU implement an extremely effective program for reducing I&I into their wastewater system. Jones Edmunds will also be assisting GRU with the I&I program to identify and prioritize projects to address the infiltration and inflow in the GRU wastewater system.

*This project is for the rehabilitation of aging wastewater infrastructure and is funded annually through GRU's infrastructure upgrades funds. This project is currently planned for up to 6 years, and funds are moved around as needed as the work progresses. There are no set budgets for this work, and the only design effort is the ongoing updating of the record drawings and planning of the next phases of pipe rehabilitation. These efforts are covered as part of Jones Edmunds' construction administration services for GRU. GRU has spent \$3.1M on Construction for fiscal year 2017.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Additional Relevant City of Gainesville Projects:

Hogtown and Possum Creek Drainage Improvements at NW 8th Avenue – The City of Gainesville's goal for this project was to design drainage improvements for the Hogtown and Possum Creek crossings at NW 8th Avenue to restore historical characteristics and functionality of the creek floodplain areas north and south of NW 8th Avenue while achieving the following objectives:

- Reduce capital and maintenance costs associated with erosion and sediment accumulation in the Creeks.
- Reduce flood risk to the roadway and homes in the area.
- Reduce environmental impacts to the creeks and adjacent floodplain.



Our design improvements included a Multi-Component Design system along NW 8th Avenue:

- Repairing the Possum Creek culvert and modifying the culvert inlet geometry to better promote self-flushing of sediment through the culvert.
- Armoring the streambed at the outlet of the Possum Creek culvert.
- Creating a stabilized inlet and outlet at the Hogtown Creek culvert that will facilitate sediment management.
- Installing up to five cross-culverts across NW 8th Avenue to facilitate flow throughout the floodplain and wetland areas and to provide additional flow capacity under NW 8th Avenue.

Jones Edmunds provided modeling, design, and permitting services for this recommendation. The project went from concept to permitting and construction completion within 12 months.



Northeast Gainesville SAFETEA-LU Roadway Improvements – Jones Edmunds worked with the City of Gainesville to improve the movement and safety of traffic, pedestrians, and bicyclists in a Northeast Gainesville neighborhood. Jones Edmunds coordinated with City staff to conduct two public meetings to solicit comments and suggestions for improvements to the five project corridors. We coordinated the meeting times and places and prepared materials for the meetings, including mailers for the City to send out, presentation graphics, handouts, and comment cards. After the meetings, we reviewed and reported on the written and oral comments received from the

meetings to help the City limit the scope of projects.

The City of Gainesville received federal funding through the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). The project required experience with local roadway design projects and Federal Highway Administration (FHWA) and Florida Department of Transportation (FDOT) procedural requirements since substantial financing for this project was provided through state and federal highway funds. The work included assessing project feasibility; analyzing alternatives; conducting public and neighborhood meetings to determine resident sentiments; defining the projects; scoping the project; surveying; determining land rights and land rights needs; and providing preliminary engineering design, final engineering design, construction documents, Federal and State reporting, and construction-bid assistance.

Stormwater Infrastructure Mapping & Stormwater Data Conversion – Jones Edmunds helped the City of Gainesville migrate its stormwater data in as-built plan sheets to a stormwater geodatabase. Jones Edmunds worked with the City to first design and develop the stormwater geodatabase, which was based on our schema designs from various stormwater infrastructure mapping projects. The next phase was georeferencing hundreds of as-built sheets from record sets to the orthophotography and parcels. Jones Edmunds then deployed a multi-user editing environment in SDE to capture/map the stormwater infrastructure in the geodatabase. Wherever possible, geometric networks and connectivity were developed and used as part of our quality assurance protocol.

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

St. Johns County

*Jones Edmunds has been serving St. Johns County under continuing services contract since 1993, providing Stormwater/Drainage, Utilities, Civil/Environmental, GIS, Water Resource, and Permitting services. Jones Edmunds has worked successfully on over 100 environmental, GIS, and engineering projects for St. Johns County, including assisting in assessments and modeling that led to \$4 to \$6 million per year in pavement management funding, a fully grant-funded stormwater treatment project that also generated over \$2 million in wetland mitigation credits for the County, and implementing an asset management system (Cityworks), and various data development and database support tasks. Of our many projects for St. Johns County, one project that has particular relevance to the City of Belleair's needs is the **Holmes Boulevard – West King Street Drainage Design**.*

Client Name	St. Johns County
Contact Person and Phone Number	Greg Caldwell, Project Coordinator 904.209.0132
Project Starting and Ending Dates	12/2014–7/2017
Consultant Cost	\$127,829 (Design) \$13,894 (Construction)
Construction Cost	Estimate: Not available Actual: \$3,622,851
Original Estimate of Time Completion Schedule	10/2015
Actual Completion Schedule	7/2017



Jones Edmunds analyzed drainage improvements associated with roadway improvements to West King Street and Holmes Boulevard in West St. Augustine. Historically, development in this area has disrupted the natural drainage patterns between partially isolated depressional areas. Landscape slopes in the West St. Augustine area are generally very slight, and the groundwater table is close to the ground surface. Consequently, repetitive nuisance flooding issues occurred in the area. The goal of the project was to develop and assess cost-reducing drainage alternatives.

We evaluated different stormwater infrastructure solutions, performed a pond siting analysis, and developed rough order of magnitude opinions of construction costs. We developed a cost-

effective alternative solution for drainage that involved the design of a new wet detention pond with an eventual outfall to the County's recently constructed Fox Creek Regional Stormwater Facility (RSF), which provides water quality treatment and flood control improvements for a 1,100-acre drainage basin in West St. Augustine. The Fox Creek RSF was designed to include the West King Street and Holmes Boulevard drainage basins. The revised design saved St. Johns County over \$1M in construction costs.

Jones Edmunds designed and permitted the new wet detention pond. The project also involved wetland delineation and re-permitting of the project through SJRWMD and USACE. We also provided limited construction-phase services for the project.

The roadway and drainage improvements were originally designed and permitted in 2008 by a different engineering firm, thus requiring extensive project coordination. This included survey and geotechnical data collection coordination. Another key facet of the project was that the wet detention pond was adjacent to an existing County Fire Station, which necessitated reconstruction of the access drives for the Fire Station. Because the Fire Station could not have any disruptions to their service or access, the project was designed around their operations.

"Jones Edmunds has proven their sincere desire to support our best interest in production highest quality services."

*Greg Caldwell
Project Coordinator*

12. REPRESENTATIVE MUNICIPAL PROJECTS OR ENGINEERING SERVICES

Additional Relevant St. Johns County Projects:

Pavement Management Program – As part of a multi-year continuing program, under multiple Task Orders, Jones Edmunds provides Construction Administration services for the County’s FY 16, FY 17, and FY 18 Pavement Management Work Plan roadway projects. These tasks include assisting the County with all phases of the construction, from pre-construction activities to full-time on-site construction observation to project closeout. The task also includes providing the services of a full-time Resident Observer. These tasks include coordination, not only with the County’s paving Contractors, but with the County’s drainage and pavement marking (striping) Contractors.

Flood Inundation Mapping and Countywide Layers/Data Preparation for FEMA Coastal Basin – Jones Edmunds will work with St. Johns County and FEMA to update the FEMA Flood Insurance Study (FIS) with the results from Countywide Stormwater Model. We will prepare and package the models and supporting data following the FEMA guidelines and specifications. Inundation mapping will be completed, databases will be merged into County-wide datasets, and a web map service will be created.

Regional Stormwater Modeling – Jones Edmunds is assisting St. Johns County in developing and implementing a Stormwater and Water Resources Management Program. The program is transforming the County’s approach to water resources from reactive problem solving to proactive solution creation. About half of the 820 square miles within the County are water or wetlands. Rapid population growth and the associated land development have led to significant changes in hydrology and water quality despite regulatory programs such as the Environmental Resource Permit process. Additionally, the Lower St. Johns River Basin became the first in Florida to adopt a TMDL Basin Management Action Plan. GIS serves as the storage, processing, and data maintenance tool of choice to manage the various datasets used to characterize the watersheds and the water resources within them. The County uses the same detailed watershed approach to simultaneously manage water quantity and quality by identifying, prioritizing, and cost-effectively addressing point and non-point source water quality issues. Most importantly, the overall program allows the County to appropriately plan and budget for water resources improvements and to more effectively engage partner agencies as technical participants. This program has already saved its citizens millions of dollars through water quality and flood protection planning.



Greenbriar Road Design – Jones Edmunds designed roadway widening and drainage improvements to Greenbriar Road from SR 13 to 700 feet west of Belvenie Drive, approximately 1.5 miles. Our services included coordinating with the St. Johns County Survey Department for a topographic and utility survey of Greenbriar Road, designing shoulder and drainage improvements for Greenbriar Road from SR 13 to 700 feet west of Belvenie Drive, preparing pavement marking and signage plans, and obtaining a Permit Exemption from the St. Johns River Water Management District.

No Passing Zone Study – FY16 Striping Program – Jones Edmunds developed the Fiscal Year 2016 Pavement Maintenance and Rehabilitation Work Plan (FY16 Work Plan) for St. Johns County. As part of this task, we performed a no-passing zone study on 16 miles of roadways within the FY16 Pavement Marking Work Plan. The No-Passing Zone Study was performed in accordance with FDOT Manual on Uniform Traffic Studies, Chapter 12 (MUTS). The No-Passing Zone Study used the posted speed limit plus as the design speed. When the design speed is between the speed limits provided on Figure 12.1 of MUTS, we rounded up to the next highest speed listed. The No-Passing Zone Study was based on the seven warrants listed in MUTS – horizontal and vertical curves, railroad grade crossing, intersections, narrow bridges, roadway transitions, obstruction, and special conditions. The method for establishing the no-passing zones was based on MUTS Method Five – Plans Review.

SUBTABS 13-15

RESPOND QUICKLY TO TOWN NEEDS /
FAMILIARITY WITH TYPICAL ENGINEERING
PROBLEMS / QUALITY SERVICES ON
SCHEDULE AND BUDGET

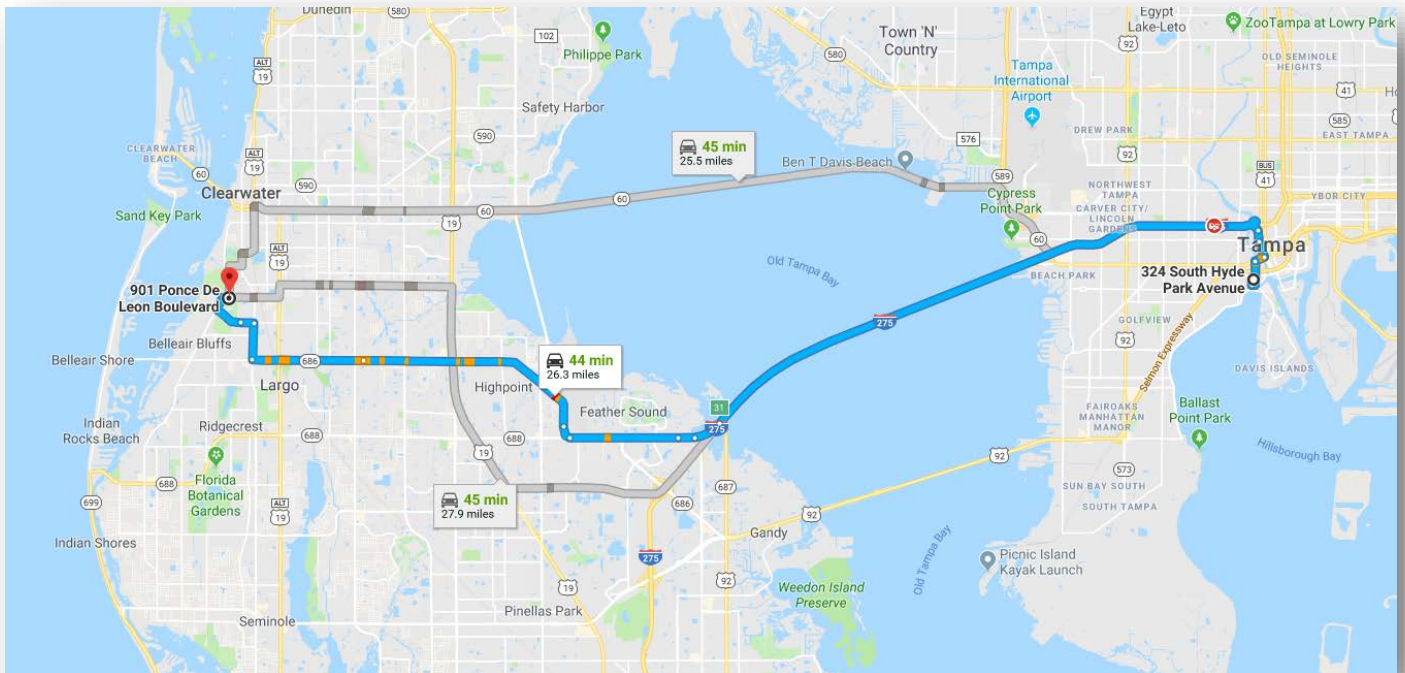


13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

RESPOND QUICKLY TO TOWN NEEDS

We consider being available to communicate quickly and respond effectively essential in the day-to-day workings of client-project manager relationships. Jones Edmunds understands the critical importance of a timely response and decision and is committed to providing that kind of unparalleled service.

Jones Edmunds has 125 staff members serving clients from seven offices in Tampa, Winter Haven, Sarasota, Gainesville, Titusville, Jacksonville, and West Palm Beach. **Our Tampa office, less than 30 miles away, will serve as the Office of Record for this contract.** Our Project Manager, Lisa Rhea, PE, and several members of the Jones Edmunds team, including subconsultants, ICON Consultant Group, Inc. and ASRus, LLC, are located in Tampa and can be available to **meet within an hour of a request.**



Because Jones Edmunds has more than 125 employees throughout Florida, the Town of Belleair can draw on our large network of company-wide resources when needed for your projects. Add the combined resources of Jones Edmunds and our subconsultants, the Town has an available and experienced team for its projects.

We will respond with urgency and the multi-discipline technical expertise that can address all engineering and construction administration needs associated with this continuing services contract. Our experts know Florida, and this expertise is what is required to complete your projects in Florida’s unique regulatory climate. Very few engineering companies are able to offer the varied services that we can.

FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS

The Jones Edmunds Team will identify and deliver quality solutions to meet the Town’s needs in a timely and cost-effective manner. It is essential that selected firms have developed understandings of continuing engineering services contracts and the types of projects the Town may assign under this contract so that each project is approached effectively. It is helpful that transparent, systematic project management methods are used and that we remain flexible to optimize the time and resources for the Town’s benefit.

13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

Like many communities, maintaining a level of service for the Town of Belleair customers that is reliable and safe is of utmost importance. Achieving this goal requires a well-planned and balanced approach to managing your short- and long-term needs. **The Jones Edmunds Team stands ready and is committed to serving the Town as your dedicated engineering partner.**

PROJECT DELIVERY PLAN

Jones Edmunds understands that continuing services contracts are often used as a vehicle for projects that require a quick turnaround or have a limited budget. Our breadth of experience working with utilities in Florida on a continuing basis provides our staff with the range of expertise necessary to complete your engineering projects efficiently. We know the importance of meeting schedule and budgetary needs for our public sector clients.

Lisa Rhea will serve as the Project Manager for this continuing contract. As such, she – with the support of other task managers – will manage all projects with the Town. At the onset of each project assignment, Lisa will meet with the Town’s Project Manager/Representative to discuss and establish the project’s objectives, scope, budget, and schedule. We understand the need for timely quality production of assigned project deliverables and the value of exercising common-sense management regarding schedule and budget. We are ready and willing to meet your needs with our unrivaled service.

Based on the work type and required expertise, Lisa will assemble the right resources from our team to deliver your project. The first step to a successful project is to understand and agree on a scope of services, schedule, and fee that meet the Town’s project requirements. We will begin each assignment with a complete understanding your goals and expectations by:

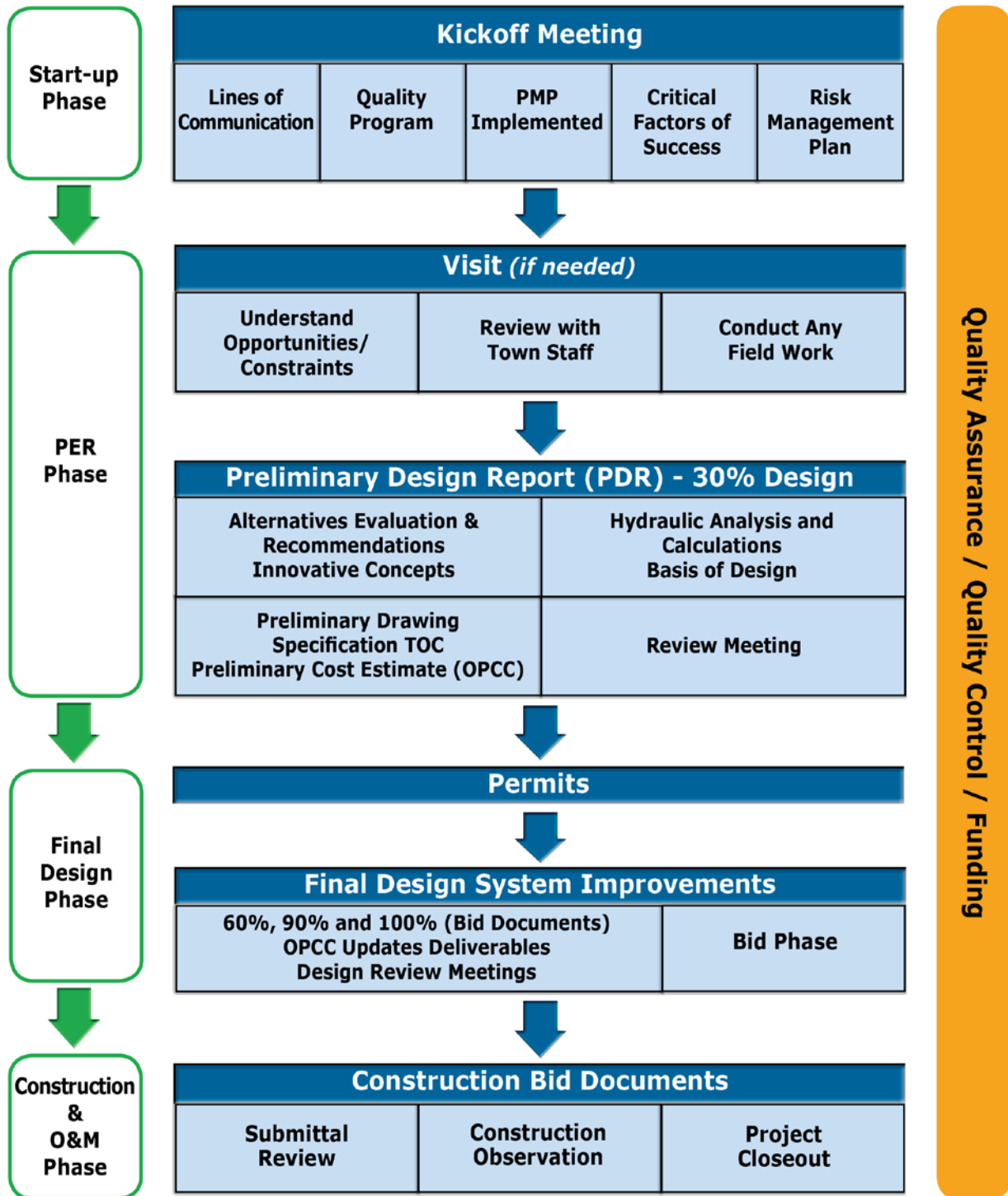
- Visiting the site with Town staff (as appropriate)
- Determining the scope of the project and defining each task
- Developing the schedule and outlining each milestone and critical date
- Understanding the requirements of each deliverable
- Estimating and negotiating personnel hours
- Estimating construction costs where applicable

The following outlines our general approach for delivering on typical engineering projects:



13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

Project Management Plan Flowchart



13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

It is at the heart of our company to dedicate ourselves to the people we serve with integrity, knowledge, and service. **The Town of Belleair can count on our looking for ways to meet your goals by maximizing resources and minimizing costs wherever possible.** Jones Edmunds' emphasis on – and success in – maintaining budgets and controlling costs and project schedules is attributed in part to the strength and flexibility of our standard project management procedures. The following describes Jones Edmunds' standard procedures associated with cost control, schedule control, and QA/QC.

Project Plan – It starts with a plan. Working with you, we will develop our understanding of the project requirements and expectations. From that, we will refine the scope of work, labor-hour breakdown, deliverable due dates, and project budget. Following your approval, we will develop a Project Plan. This Plan distributes to the Project Team fundamental information critical to properly completing the project.

Contingency Procedures – We understand that despite the best planning and management of a project, unexpected changes in personnel and project scope or direction can occur. To mitigate the negative effect of possible unexpected changes to the Project Team, we will provide redundancy in key positions. More specifically, we have proposed Task Managers in addition to Lisa Rhea as our Project Manager. These team members have capabilities to manage the utility engineering project requirements outlined in the RFQ. We also understand that minor unexpected changes to the project scope and direction can require quick reviews and adjustments to scopes, while keeping the project within budget. We are adaptable to change.

Project Communication – internal and external – We believe that successful communication is one of the key aspects of a successful project. Our Project Manager and your Project Manager will communicate frequently. We know that regularly provided, tangible-assurance of project progress is vital to project success.

Developing and executing an effective external community outreach communications plan is integral to this project's success as well. Regarding external communications, Jones Edmunds has included Terri Lowery and Audrey Jimenez on our team. Both are seasoned professionals engaged daily in providing public information and public relations services.

Our team's extensive experience include organizing and conducting public workshops and meetings, implementing social media campaigns, and working with the media. Our team's technical skills include graphic design, website/project webpage development and maintenance, media relations, and informational material development to help keep the public informed about the project and its progress. We will be mindful of public involvement requirements and work with the Town's staff to develop a communications and outreach plan that meets your specific community needs for this utilities project.

INNOVATIVE APPROACHES

Jones Edmunds seeks solutions that are cost-effective, timely, and result in high-quality products. We have dedicated ourselves to delivering project through innovative approaches that satisfy our clients' needs and save time and money. Innovative approaches we will use to deliver solutions with the Town include techniques we use to communicate with you, project ideas and technical approaches we suggest to meet your needs, and innovative approaches we use to control project costs.

Innovative Approach to Project Communications

We will facilitate effective communication and project delivery by **conducting monthly or quarterly progress meetings with the Town incorporating transparent communications.** Fostering a culture of innovation requires open, transparent communication. Information must be shared upward, downward, and laterally. During these meetings, we will review ongoing and upcoming projects with a focus on project status, remaining work to be completed, ideas to improve activities and outcomes, and outstanding questions. These meetings will keep the Town up-to-date on the project status and promote efficient resolution of project issues or questions. A summary report will be provided following these meetings. We have been using this approach for several of our continuing services contracts including the City of Bradenton, City of Oldsmar, and City of Clearwater.

13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

Innovative Technical Approaches

Utilities: Through our utilities engineering work throughout Florida, we have a proven record for delivering innovative technical solutions to complex issues. The projects highlighted below demonstrate a few examples of Jones Edmunds' innovative approaches to project design and development that have led to significant cost-savings for our clients while maintaining high standards of performance and timely project performance. We will bring this same focus and technical expertise to the Town.

Gainesville Regional Utilities (GRU) Lift Station No. 1 Replacement

- Designed the replacement for Lift Station No. 1, reviewed the GRU civil and mechanical design documents and provided comments, and completed the electrical design drawings and all technical specifications sections for the construction contract documents.
- Seamlessly completed construction contract documents.
- Resulted in high-quality technical work product with little or no construction conflicts or start-up problems.

City of St. Cloud Reclaimed Water Pumping Station (20 MGD)

- Prepared separate Procurement Contract Bidding Documents to allow the City to pre-purchase major pump station equipment to achieve an SFWMD deadline that provided \$800,000 in grant funding for the project.
- Prepared separate open-bid construction documents for the general contractor to install the pump station and associated equipment, which allowed the construction work to be completed within 8 months and meet the deadline to receive grant funding.
- We are using a similar pre-procurement strategy to replace the polishers for the City's MIEX treatment system to meet the schedule needs of the City.

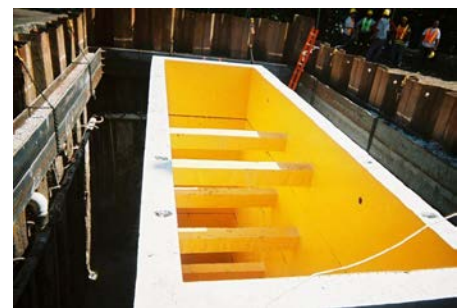


NASA Utility Annex FIREX Pumping Station

- Assisted in a critical situation at the Utility Annex FIREX Pumping Station: one of the primary FIREX pumps had suddenly failed for unknown reasons.
- Mobilized immediately to help troubleshoot problems; time was a real concern due to the launch schedule. Worked closely with NASA's staff to resolve the problems quickly.
- The pump station was brought online in time to avoid operational impacts.

St. Cloud Lift Station No. 5

- Designed a new 6-MGD sanitary sewer master lift station to replace two aging lift stations and to ultimately pump wastewater from the City's Lakeshore WWTF to the newly expanded 6-MGD Southside WWTF.
- Designed the large pump station with pre-cast construction to minimize sheeting and dewatering costs. The excavation was tightly sheeted, and the excavation was opened and backfilled within 2 days following installation of the five pre-cast sections.
- Largest pre-cast pump station in the state with a depth of 28 feet below land surface, an 8.5-foot inside width, and a 30-foot length.
- Designed the four 200-hp pumps with two impeller sizes to allow the City to use the new station in the short term for pumping to the Lakeshore WWTF and in the long-term pump all flow to the Southside WWTF (6 miles away) once the new 6-MGD expansion is complete.



13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

Stormwater/NPDES/Watershed Studies/GIS: Jones Edmunds has developed a number of innovative approaches to WMPs that have helped us efficiently develop more accurate models and add value to the projects. Our Water Resources team is very adept at using GIS to streamline our modeling and engineering approaches. These unique and novel approaches have been developed in a Company culture that promotes and fosters an innovative and collaborative work environment:

- Developing and applying GIS and custom tools that have allow us to develop watershed plans more efficiently and have helped to enforce sound modeling practices. These tools focus not only on developing data more efficiently, but include quality management tools that ensure our work products are accurate.
- Developing easy-to-use yet robust field data collection applications.
- Performing GIS analysis, automating model set up through GIS automation, and processing model output using GIS.
- Using an innovative raster analysis technique to rapidly assess flood risk.
- Working with Citrus County and SWFWMD to develop a consistent methodology to be used for all consultants who will perform Alternatives Analyses in the County in upcoming years.
- Remaining at the forefront of using LiDAR data and developing GIS processing tools for watershed models – both of which allow analyses that are more detailed, accurate, and reproducible at a lower cost. Our GIS-centric approach also saves considerable time in model development and allows improved QA/QC of the input data and model results.
- Writing the State’s first Low-Impact Development (LID) Manual that received direct recognition for Environmental Resource Permits. The Manual addresses many reasonable assurance issues that historically have been impediments to LID implementation.
- Helping to implement the first National Oceanic and Atmospheric Administration (NOAA) flood forecasting web services in the State.
- Helping multiple clients improve their Community Rating System (CRS) class using our knowledge of watershed management, GIS analysis, and the CRS Coordinator’s Manual to save communities millions of dollars per year in flood insurance premiums.

Construction: We focus on a team-centric approach to Construction Administration services and provide the following services to the City that go well beyond the traditional role of construction services:

- Using and fostering a very open approach to make sure that all stakeholders on the project, including the Owner, Contractor, Engineer, Regulatory Agencies, and Funding Agencies, are all part of the same team working toward the same goals. This greatly helps to mitigate issues that may arise on a construction project and with any negotiations that need to occur and helps result in a successful project for all stakeholders.
- Using electronic review and recording of Contractor submittals, facilitating an accelerated review and maintenance of Contractor’s Progress Schedule and Submittals for all parties.
- Involving our in-house construction experts in all phases of the design, from brainstorming of the project through constructability reviews and cost estimating. This is an often-overlooked part of project designs; however, construction experts review projects differently than design engineers, and this additional review greatly helps our projects get to and be successful during construction.
- Having experienced and knowledgeable Construction Project Coordinators, a position that is being overlooked by many firms; however, the timely review and distribution of all construction project coordination are critical for claims avoidance and for project closeout.

13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

- Handling all aspects of the funding agreement requirements – from preparing distribution requests, to keeping the files organized according to the agencies rules, to giving tours of the projects to the regulatory authorities.
- Coordinating with local residents, businesses, and staff so that everyone is aware of the status of the project, what areas might be affected, and when certain closures might not be allowed. Public outreach helps inform the City’s citizens of upcoming work and helps the local citizens understand why the construction is necessary.

Innovative Cost Control Approaches

Below is a sampling of projects completed within the past 5 years where Jones Edmunds had innovatively accomplished cost control.

Client / Project	Cost Control Measures
Polk County Utilities Central Regional Utilities Operations Building and Water Production Facility	After completely designing and permitting both phases of this two-phased project, we went over and above to develop a plan to combine mass grading operations from the two separate contractors into a single mass grading operation. This reduced the number of times fill material needed to be moved and stockpiled at the site, saving the County an estimated \$300,000 and reducing the overall construction time by several months.
Hillsborough County Little Manatee Watershed Management Plan	The County had a \$50k survey budget, which only covered about a third of the survey needed. We conducted engineering-level survey to collect the remaining needed data and stayed within the budget set-aside for the overall field effort.
Sarasota County Little Sarasota Bay Model and FEMA Updates	Through creation and use of innovative tools, we developed additional information requested by FEMA while keeping the project within budget and schedule.
Citrus County Elevation Certificates	We worked with multiple County departments to maximize utility of the data we tabulated and digitized; shared funding among departments to the benefit of all.
Volusia County Gemini Springs Baffle Box Design	We streamlined our design so County could build it rather than contract construction. We sought and secured funding from SJRWMD and FDEP.

13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

FIRM'S CURRENT AND FUTURE PROJECT WORKLOAD

Jones Edmunds understands the value our clients place on working with partners who are available and accessible to their staff and project sites. We opened our Tampa office in 1988, and it has been a mainstay in the Tampa Bay region since then. In addition, we have six other Florida offices committed to the Town of Belleair and a proven record of delivering on our promises to clients throughout Florida.

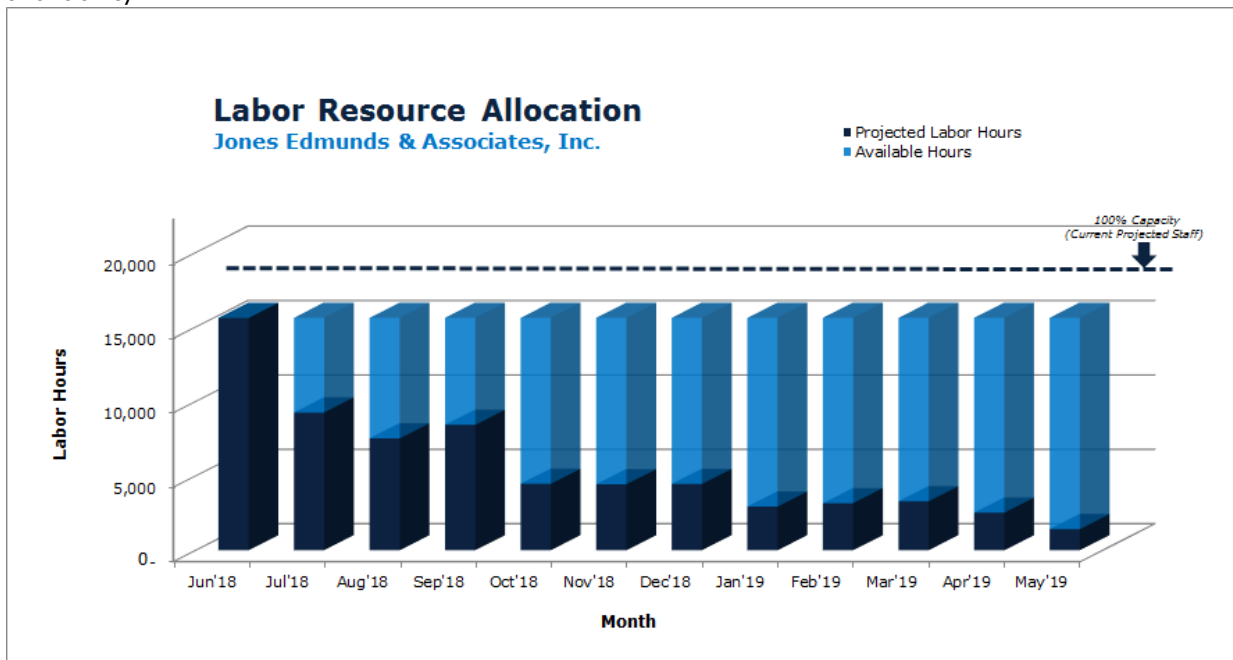
Jones Edmunds commits the necessary resources to achieve your project goals and to meet the Town's time and budget requirements. We understand the importance of timeliness and, therefore, with an effective work management plan, we are able to draw on a large network of Company-wide resources when needed to ensure that we complete projects on schedule.

Our staff routinely shares work and resources between offices. We use Internet meetings, videoconferencing, and telecommunications to help coordinate team members in all of our offices. All Jones Edmunds offices are linked electronically, thereby facilitating seamless report, design, and drafting preparation. Furthermore, team members are also linked electronically, facilitating overall project production and coordination.



Jones Edmunds has analyzed our personnel resources for our proposed project team in conjunction with the resources you will need for this project. Based on this analysis, we are fully prepared to commit the necessary resources to properly complete projects under this Contract.

The diagram below accounts for current projected bookings over the next year, June 2018–May 2019. The results are associated with current assignments and consistent with our expectations – that we have 33% to 50% availability in the short term (June to September 2018) and approximately 80% availability 6 to 12 months out. Additionally, we have reviewed the 12-month projected workload for key team members, and all have over 50% availability.



13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

QUALITY SERVICES ON SCHEDULE AND BUDGET



Jones Edmunds has a corporate-wide QA program charged with implementing QA/QC on all projects. Our Managing Director for Quality, Rich Koller, offers expertise and consistency in quality deliverables for the Town's projects. Our proposed team includes experts in the appropriate areas of practice so that all major elements of a project can be reviewed effectively by the primary QA/QC professionals reporting directly to the Project Manager. We will develop an appropriate QA Project Plan tailored to each Town assignment. QA begins at the initial planning phase of the project and is part of all subsequent phases through project completion. The QA portion of the Project Plan outlines QC points, expected and actual milestone dates (tracked throughout the project), and responsible

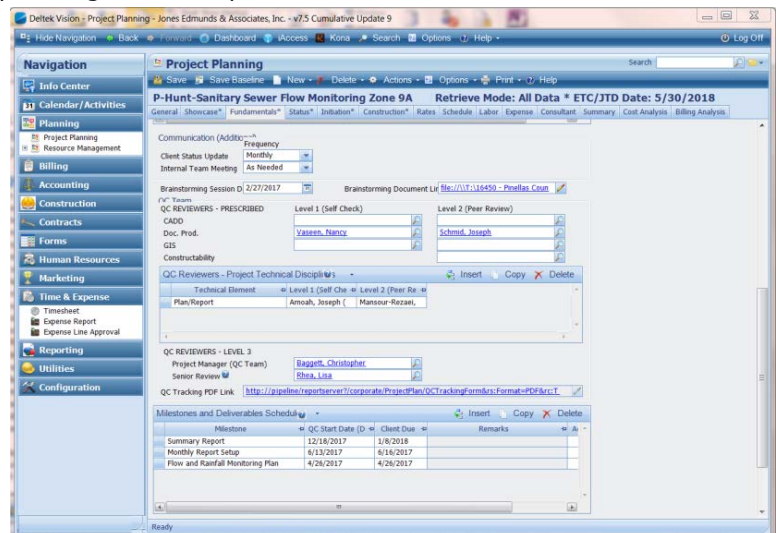
parties. This rigorous and comprehensive QA program is implemented at the start of all our projects. For design efforts, this includes independent reviews of calculations, specifications, and design plans by peer and senior-level design staff.

Schedule Control – Jones Edmunds maintains established schedules throughout projects. We hold regular meetings with you and Project Team members to review the status of the scope of work, deliverable due dates, and budgets. Maintaining schedules contributes to effective budget control by keeping the team focused on the activities scheduled and deliverables due.

Cost Control – Our customized version of Deltek Vision allows us to easily track project costs and provides project performance as well as billing information. Our managers use accounting information and their knowledge of project status to track performance weekly.

Willingness to meet budgets and schedules – Jones Edmunds is willing and committed to meeting the Town's budget and schedule requirements. Our record of working with clients on continuing engineering services contracts involving multiple project assignments supports our commitment. We have and use project management tools to facilitate the flow of project information. To provide the best schedule and budget controls to for you, we will use our established – but flexible – project planning tools and procedures.

In addition to our expected long-term availability to commit significant resources to the Town of Belleair, our management practices and systems will ensure that project tasks are organized and coordinated for successful and timely completion of all tasks under this Contract. Through Deltek Vision, our project planning and management system, we input project milestone dates into our planning module. An example of the planning module milestone dates are shown to the right as an example of a recently completed Pinellas County Utilities Sanitary Sewer Flow Monitoring project. Milestones are reported and tracked daily by our Department Managers and Managing Directors. In addition, the milestones are reviewed during Monday morning operations meetings to ensure schedules are met, and that additional resources are applied, if needed, to meet a commitment.



13. – 15. RESPOND QUICKLY TO TOWN NEEDS / FAMILIARITY WITH TYPICAL ENGINEERING PROBLEMS / QUALITY SERVICES ON SCHEDULE AND BUDGET

We also input corresponding projected hours per week per person to reach each milestone. Below on the left is a screen shot from our Deltek Vision labor projections for the PCU County Road 547 design, demonstrating the level of detail to which our project labor is planned. Projections are available to all staff daily. Projections are compiled for all associates showing their entire workload and are reviewed by managers and each staff member. This process helps identify any areas where additional resources may be needed to meet a task milestone. We implement this process routinely so all projects are coordinated and balanced. During weekly staff meetings, associates are assigned daily activities to achieve project goals. We continue to communicate with our associates daily to ensure projects are staying on track and any obstacles are cleared. These are “dynamic plans” that are required to be updated weekly by our project managers for accuracy. Our track record with clients throughout Florida demonstrates that Jones Edmunds performs work on schedule and at a high level of quality on a very consistent basis. **We are committed to prioritizing and having the resources available to the Town of Belleair for their projects.**

The screenshot shows a software interface for 'Project Planning' with a menu bar (Save, Save Baseline, New, Delete, Actions, Options, Print, Help) and a toolbar. The main window title is 'P-AHolmes-Polk County-CR 547 Reclaimed Water Main Improvements Phase One'. Below the title are tabs for 'General', 'Showcase', 'Fundamentals', 'Status', 'Initiation', 'Construction', 'Rates', 'Schedule', 'Labor', 'Expense', 'Consultant', and 'Summary'. The 'Labor' tab is active, showing a table with columns for 'Description', 'WBS Level', 'Subrow', and weekly hour columns: 'May 2018 5/7 - 5/13', 'May 2018 5/14 - 5/20', 'May 2018 5/21 - 5/27', 'May-Jun'18 5/28 - 6/3', and 'Jun 6/4 -'. The table lists tasks like 'Preliminary Design' and 'Final Design' with planned and actual hours. It also lists individual staff members: Koller, Richard; Young, Douglas; Holmes, Anthony; and Wade, Ryan, with their respective planned and actual hours for each week.

Description	WBS Level	Subrow	May 2018 5/7 - 5/13	May 2018 5/14 - 5/20	May 2018 5/21 - 5/27	May-Jun'18 5/28 - 6/3	Jun 6/4 -
Preliminary Design	Task	Planned Hrs					
Preliminary Design	Task	Actual Hrs					
Final Design	Task	Planned Hrs	28.00	20.50	3.00	4.00	
Final Design	Task	Actual Hrs					
Koller, Richard		Planned Hrs		0.50		4.00	
Koller, Richard		Actual Hrs					
Young, Douglas		Planned Hrs		2.00			
Young, Douglas		Actual Hrs					
Holmes, Anthony		Planned Hrs	8.00	6.00	2.00		
Holmes, Anthony		Actual Hrs					
Wade, Ryan		Planned Hrs	20.00	5.00			
Wade, Ryan		Actual Hrs					

SUBTAB 16

MUNICIPAL, STATE, AND FEDERAL
REFERENCES



16. MUNICIPAL, STATE, AND FEDERAL REFERENCES

Our team applies our knowledge and expertise to provide high-quality professional services with loyalty, personal commitment, and technical excellence. We value our clients and are devoted to their interests. Their opinion of our capabilities and commitment reflects our dedication to client satisfaction. Please contact any of the individuals listed below to receive a recommendation on the ability of the Jones Edmunds team to provide effective and efficient services as detailed in this proposal.

CITY OF BRADENTON

Jim McLellan, PE, Director of Public Works and Utilities
Jim.McLellan@cityofbradenton.com
941.708.6300

CITY OF LEESBURG

DC Maudlin, Director of Public Works
dc.maudlin@leesburgflorida.gov
352.728.9700

CITY OF OLDSMAR

Johna Jahn, Utilities Administrator / Asst. Public Works Dir.
jjahn@ci.oldsmar.fl.us
813.749.1233

CITY OF CLEARWATER

David Porter, Director of Public Utilities
david.porter@myclearwater.com
727.562.4960

CITY OF ZEPHYRHILLS

John Bostic, III, Utilities Director
jbostic@ci.zephyrhills.fl.us
813.780.0008

PINELLAS COUNTY

Kevin J. Becotte, PE, Manager, Plant Operations Sect., Water & Sewer Div
kbecotte@co.pinellas.fl.us
727.464.5377

SUBTAB 17

FIRM'S AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY PRACTICES



EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

It is the policy of Jones Edmunds & Associates (Jones Edmunds) not to discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or because he or she is a protected veteran. We encourage current minority and female employees to recruit other minorities and females. It is also the policy of Jones Edmunds to take affirmative action to employ and to advance in employment, all persons regardless of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or protected veteran status, and to base all employment decisions only on valid job requirements. We also encourage employees to seek or prepare for promotional opportunities through appropriate training. This policy shall apply to all employment actions, including but not limited to recruitment, hiring, upgrading, promotion, transfer, demotion, layoff, recall, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship, at all levels of employment.

Employees and applicants of Jones Edmunds will not be subject to harassment on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or because he or she is a protected veteran. Additionally, retaliation, including intimidation, threats, or coercion, because an employee or applicant has objected to discrimination, engaged or may engage in filing a complaint, assisted in a review, investigation, or hearing or have otherwise sought to obtain their legal rights under any Federal, State, or local EEO law is prohibited.

As President and CEO of Jones Edmunds, I am committed to the principles of Affirmative Action and Equal Employment Opportunity. In order to ensure dissemination and implementation of Equal Employment Opportunity and affirmative action throughout all levels of the company, I have selected Gretchen B Loyd, Human Resources Director, as the Equal Employment Opportunity (EEO) Manager for Jones Edmunds. One of the EEO Manager's duties will be to establish and maintain internal audit and reporting systems to allow for effective measurement of Jones Edmunds's programs.

In furtherance of Jones Edmunds's policy regarding Affirmative Action and Equal Employment Opportunity, Jones Edmunds has developed a written Affirmative Action Program which sets forth the policies, practices and procedures that Jones Edmunds is committed to in order to ensure that its policy of nondiscrimination and affirmative action is accomplished. This Affirmative Action Program is available in the Human Resources office for inspection by any employee or applicant for employment upon request, during normal business hours. Interested persons should contact Gretchen Loyd for assistance.

We request the support of all employees in accomplishing Equal Employment Opportunity.



Stanley F. Ferreira, Jr., PE
January 1, 2018
Jones Edmunds & Associates

Notification of Equal Employment Opportunity & Affirmative Action Policy

It is the policy of Jones Edmunds & Associates to take affirmative action in affording equal employment opportunities to all qualified persons without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, marital status, genetic information, disability or protected veteran status.

This includes, but is not limited to, the following:

- Hiring, placement, upgrading, transfer, demotion or promotion
- Recruitment, advertising or solicitation for employment
- Treatment during employment
- Rates of pay or other forms of compensation
- Selection for training, including apprenticeship
- Layoff or termination

It is the policy of Jones Edmunds & Associates to cooperate to the fullest extent with the applicable regulations of the Civil Rights Act and any legislation on Equal Employment Opportunity.

We request the cooperation of our subcontractors, vendors and suppliers in our equal opportunity and affirmative action efforts and expect them to put in place equal opportunity and affirmative action policies as required.

Signed,



Stanley F. Ferreira, Jr., PE
January 1, 2018
Jones Edmunds & Associates

SUBTAB 18

CONFLICTS OF INTERESTS AND ONGOING
OR PENDING LITIGATION, CLAIMS, OR SUITS
AGAINST THE TOWN OF BELLEAIR



18. CONFLICTS OF INTERESTS AND ONGOING OR PENDING LITIGATION, CLAIMS, OR SUITS AGAINST THE TOWN OF BELLEAIR

Jones Edmunds is not engaged in any outside activities that are inconsistent, incompatible, or appear to conflict with our ability to exercise independent/objective judgment in the best interest of the City. We primarily serve the needs of public-sector clients in Florida and typically do not pursue private-sector work. On the occasions when we do provide services to private clients, we are always careful to make sure to avoid any conflicts with our public-sector clients, who are the core of our client base. We are also cognizant that there are times when there may be a conflict between two local governments. If this issue arises, we will immediately notify all parties for appropriate resolution.

We stand behind the integrity of our work and we have maintained our professional liability insurance continually since 1974 for the protection of our company and clients. If a claim arises, Jones Edmunds is proactive and cooperative in working with our clients to reach a resolution that is fair and protects the interests of both parties. Jones Edmunds is not aware of any personal or organizational conflicts of interests. We are not involved in any ongoing or pending litigation, claims, or suits against the Town of Belleair.

SUBTAB 19

ADDITIONAL INFORMATION



19. ADDITIONAL INFORMATION

OUTSTANDING ACCOMPLISHMENTS/AWARDS

Jones Edmunds engineers, geologists, and scientists have achieved breakthroughs and firsts in our practice areas by being innovative and looking beyond short-term solutions. Our proven reputation within Florida's regulatory community and relationships with key institutions such as FDEP, water management districts, Florida Department of Transportation, US Army Corps of Engineers, University of Florida, University of Central Florida, TREEO Center, and NASA allow us to effectively meet our clients' needs and develop effective and responsible solutions. Our expertise and dedicated approach to projects, client service, and innovation have been widely recognized on international, national, state, and local levels.

The following are some of our recent achievement and awards:

2018 FCCMA Service Award

*Florida City and County Managers Association
In recognition of Terri Lowery's dedication to service*

2018 Project of the Year Award

*Sweetwater Wetlands Park
David W. York Reuse Project of the Year Award by
the Florida Water Environment Association (FWEA)*

2018 Waste360 Award

*Waste 360 40 Under 40 Recognition
In recognition of Tobin McKnight*

2016 Beautification Award

*City of Gainesville
In recognition of Sweetwater Wetlands Park*

2016 Consultant of the Year Award

*American Public Works Association (APWA) – Florida
Chapter, WW / Water Category*

2016 (FICE) President's Award

*Florida Institute of Consulting Engineers
In recognition of Ken Vogel's dedication to service*

2015 Consultant of the Year Award

*American Public Works Association (APWA) – Florida
Chapter, WW / Water Category*

2015 Outstanding Achievement Award

*Florida Stormwater Association (FSA)
Paynes Prairie Sheetflow Restoration*

2015 Best Practice Award Finalist

*Sustainable Florida, Working on the Green
Sustainability Summit
Sweetwater Wetlands Park*

2015 Project of the Year Award

*American Society of Civil Engineers (ASCE), Florida
Section
Paynes Prairie Sheetflow Restoration*

2014 Professional Development Award

*Florida Institute of Consulting Engineers / Florida
Engineering Society (FICE/FES)
Extraordinary Participation in Professional and
Technical Societies, Civic Activities, and Continuing
Education*

2014 Special Recognition Award

*Florida Rural Water Association (FRWA)
Special Recognition for 20 Years of Service and
Involvement*

2014 J.W. Morris Sustaining Member Award

*Society of American Military Engineers (SAME)
Corporate Recognition for Outstanding Contributions*

2014 Silver Excellence Award (Received by Escambia County)

*Solid Waste Association of North America (SWANA)
Saufley Field Road C&D Landfill Closure*

2014 Statewide Best in Construction in the "Partnering" Category*

*Florida Transportation Builders' Association (FTBA)
Mathews Bridge Emergency Repair Project*

2014 Exemplary User Award (Received by St. Johns County)

*Cityworks–Azteca Systems
St. Johns County Computerized Maintenance
Management System (CMMS)*

2013 FICE Project of the Year Award*

*Florida Institute of Consulting Engineers (FICE)
Mathews Bridge Emergency Repair Project*

"2013 Solid Waste Consultant of the Year Award"

*American Public Works Association (APWA)
Reedy Creek Improvement District – Solid Waste
Transfer Station*

19. ADDITIONAL INFORMATION

"2012 Engineering Excellence Grand Award" for Building/Technology Systems

*Florida Institute of Consulting Engineers
NASA – Propellants North Administrative and Maintenance Facility*

"2012 Engineering Excellence Grand Award" for Building/Technology Systems

*Florida Institute of Consulting Engineers
NASA – Propellants North Administrative and Maintenance Facility*

"2011 Project of the Year"

*American Society of Civil Engineers, Florida Section
Kennedy Space Center – Crawlerway Evaluation*

"2011 Water Conservation Planning Best in Class"

*St. Johns County Water Conservation Planning
American Water Works Association*

"2010 Project of the Year"

*American Public Works Association (APWA)
Putnam County – East Putnam County Regional Water System*

"2010 Excellence in Construction Award"

*Central Florida Chapter Associated Builders and Contractors, Inc.
On Top Of the World – Water Treatment Plant No. 3 Construction Services*

"2009 Engineering Excellence Grand Award"

*Florida Institute of Consulting Engineers (FICE)
City of St. Cloud – MIEX Water Treatment Plant*

"2009 Excellence in Environmental Engineering Design Honor Award"

*American Academy of Environmental Engineers (AAEE)
City of St. Cloud – MIEX Water Treatment Plant*

"2009 National Finalist for Outstanding Civil Engineering Achievement (OCEA) Award"

*American Society of Civil Engineers (ASCE)
City of St. Cloud – MIEX Water Treatment Plant*

"Best of 2008 Award of Merit"

*Southeast Construction Magazine
City of St. Cloud – MIEX Water Treatment Plant*

"2007 Engineering Excellence Grand Award"

*Florida Institute of Consulting Engineers (FICE)
Polk County – North Central Landfill Phase III Expansion*

"2007 National Finalist - Engineering Excellence Award"

*American Council of Engineering Companies (ACEC)
Polk County – North Central Landfill Phase III Expansion*

"2005 Project of the Year"

*American Society of Civil Engineers (ASCE)
Alachua County – Southwest Landfill Gas-to-Energy and Leachate System*

"2004 Professional Engineers in Industry (PEI) New Product Award (in the Large category)"

National Society for Engineers (NSPE)

"2004 Innovator of the Year"

Gainesville Area Chamber of Commerce

"2004 Gold Excellence Award" for the Best Managed Landfill in North America

*Solid Waste Association of North America (SWANA)
Polk County – Bioreactor-Ready Bottom Liner System*

"2003 Outstanding Achievement Award" for the Geosynthetic Project

*Industrial Fabrics Association International
Polk County – Bioreactor-Ready Bottom Liner System*

"2003 Governor's New Product Award"

*Florida Professional Engineers in Industry
Polk County – Bioreactor-Ready Bottom Liner System*

"2003 Charles Pankow Award for Innovation"

*American Society of Civil Engineers (ASCE)
Polk County – Bioreactor-Ready Bottom Liner System*

"2003 Consultant of the Year"

*American Public Works Association (APWA)
Polk County – Bioreactor-Ready Bottom Liner System*

"2002 Outstanding Engineering Design Award (Gainesville Branch)"

American Society of Civil Engineers (ASCE)

SUBTAB 20

CERTIFIED MINORITY BUSINESS ENTERPRISE



20. CERTIFIED MINORITY BUSINESS ENTERPRISE

Although Jones Edmunds is not a women- or minority-owned firm, we recognize the importance of minority participation and supports the Town's commitment to women- and minority-owned business enterprises in the procurement of commodities and services.

COMMITMENT

Jones Edmunds supports the Town of Belleair's commitment to W/MBEs.

Jones Edmunds strives to use local, small, and minority businesses in support of the County's MBE and SBE goals. We have established working relationships with many small and minority- and women-owned firms that can be called on to help support with tasks under this contract if needed.

- We have partnered with **ICON to provide Traffic Engineering Services**. **The Florida Department of Management Services Office of Supplier Diversity recognizes ICON as a certified minority business.**
- We have partnered with **ASRus to provide Hydrogeology/Brackish Wells Engineering Services**. **Hillsborough County's Board of County Commissioners Economic Development and Minority and Disadvantaged Business Development Department recognizes ASRus as a small business**, approved to provide services in following categories: hydrogeological design and consulting and water storage, recovery and resources.

Certificates are provided on the following pages.

Jones Edmunds has a system for allocating work to our subconsultants, and we are refining our processes and procedures to not only track but also to report our success in maintaining the percentage of allocated work. First, we conduct outreach to firms that specialize in services listed as a need within the Town's scope of services. Our outreach includes targeting local firms because they have a vested interest in performing well for our mutual clients.

We also search for local minority firms, specifically those registered with the municipality or State as a designated small, minority, women-owned and/or service-disabled veteran business enterprise. We then confirm this designation by requesting a copy of the appropriate certification and ensuring that the certification is up-to-date. For specific scope projects, we develop a teaming agreement in which we collaboratively pre-determine an allocated percentage of work based on the scopes of services in the sample contract. Percentages may fluctuate according to project work available.

Next, the SBE/W/MBE designation and agreed-on percentage are inserted into our customized version of Deltek Vision by our project managers as part of our project management plan. Deltek Vision is an industry-leading enterprise software that incorporates all of our business functions, including resource management, project management, accounting, marketing, time-and-expense capture, and billing. This software integrates Jones Edmunds' departmental operations and functions and serves as a centralized hub for efficient resource allocation, project budget and schedule tracking, and reporting. Our managers use these real-time data and their knowledge of client goals to track project performance weekly. It is in the same capacity that Deltek Vision will be used to track success in achieving and maintaining the percentage of work conducted by our local subconsultants.

Various reports can be generated through Deltek Vision. For our subconsultants/suppliers, the reports are sorted by project expenses. Since invoicing is an essential function of Deltek Vision, project managers can track payments to subconsultants against payments we would receive from the Town, from which the percentage of work allocated is produced real time. The reports can also display the location of the subconsultant/supplier firms compared to the location of the Town. These reports can be made available to the Town during regularly schedule progress meetings.

20. CERTIFIED MINORITY BUSINESS ENTERPRISE

ICON

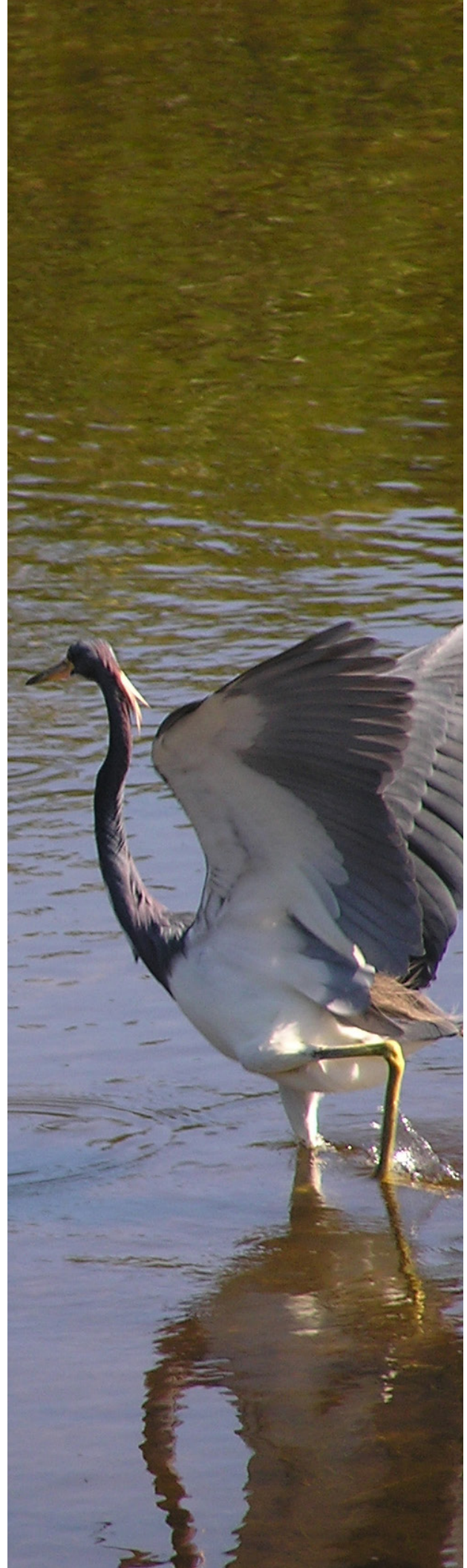


ASRus



TAB 2

STATEMENT OF UNDERSTANDING



STATEMENT OF UNDERSTANDING

Established in 1974, Jones Edmunds is a Florida-based, multi-disciplinary engineering corporation. The focus of our consulting practice is serving the needs of local government. **We recognize that a good consultant does more than just engineering.** Our experience has allowed our professionals to obtain a true understanding and appreciation for the underlying needs of government, advocate on their behalf to promote their best interests, and serve the needs of their residents. We have 125 staff members serving clients from seven offices in Tampa, Winter Haven, Sarasota, Gainesville, Titusville, Jacksonville, and West Palm Beach. **Our Tampa office, less than 30 miles away, will serve as the Office of Record for this contract.**



It is at the heart of our company to dedicate ourselves to the people we serve with Integrity, Knowledge, and Service. At Jones Edmunds, client service means more than just a good technical product – it means being responsive to the needs of our clients, providing staff experienced in the specific disciplines required for the work, listening to and understanding stakeholder goals and expectations, and communicating throughout each phase of projects to achieve the desired outcome. Because of this exceptional dedication and service, we have **developed a proven record of working collaboratively with clients, and we look forward to developing this relationship with the Town of Belleair.**

UNDERSTANDING NEEDS

Jones Edmunds understands the Town of Belleair’s challenges and looks forward to assisting in developing solutions. Recently the Town approved a 15-year street improvement CIP that identifies segments of roadway in need of resurfacing or reconstruction – in the later years reassessing the individual roads to ensure the original recommendation is still appropriate will be key to successfully implementing the work. You are facing challenges with your potable water treatment system, specifically the increasing salinity in the production wells and the opportunity to find a cost-effective solution that can be integrated into the current water treatment facility. Stabilizing the receding bluff presents a unique opportunity that requires creative thinking and a willingness to engage stakeholders to find a sustainable and permissible solution, while restoring and managing Belleair Creek is directly related to the management of Harold’s Lake, which is part of a current project.

UNDERSTANDING THE PROPOSED SCOPE OF SERVICES

Here is the list of services for which we are submitting our qualifications.

X	A. Design Phase	X	B. Constructions and Inspection Phase Services
X	C. Project Administration	X	D. General Civil/Stormwater Engineering
X	E. Traffic Engineering	X	F. Water/Wastewater Engineering
	G. Geotechnical Engineering	X	H. Pavement Management
X	I. Geographic Information Systems Services (GIS)	X	J. Grant Administration
X	K. General Engineering Consultation / Peer Review / Quality Assurance Review		

A. DESIGN SERVICES, C. PROJECT ADMINISTRATION, AND K. GENERAL ENGINEERING CONSULTATION/PEER REVIEW/QUALITY ASSURANCE

Jones Edmunds provides clients with design, project administration, general engineering consultation, and peer review/quality assurance services as needed on projects for each of the disciplines identified below.

STATEMENT OF UNDERSTANDING

B. CONSTRUCTION ENGINEERING INSPECTIONS AND MANAGEMENT SERVICES



Jones Edmunds has a long-standing commitment to the special demands required of construction-phase services. Services are provided during the construction phase of a project through a cooperative effort between Jones Edmunds' Engineering and Construction departments. Our Construction group is staffed with professionals who have direct experience in the construction industry. These professionals also take an active role in the design process by reviewing design documents before phase submittals and before the submittal of the final plans. Our Construction Group possesses the highly specialized construction experience required to implement an effective program of resident observation, construction administration, and project closeouts with a focus on efficiency, practicality, and claims

avoidance. We have the experience to anticipate potential construction problems, delays, and contractual conflicts. These capabilities affect our clients' bottom line by reducing costs and minimizing construction delays.

Pre-Construction Phase

- Conduct Pre-Bid Conferences
- Issue Addendum to Bidders Requests for Information/Clarification
- Evaluate Bids
- Recommend Contract Award to Owner
- Provide Notice of Award
- Document Pre-Construction Conditions
- Prepare Testing and Submittal Plan
- Execute Contract
- Lead Public Outreach and Progress Meetings

Construction Phase

- Contract Administration Construction Engineering
- Provide Resident or Part-Time Observation
- Prepare Daily Construction Reports
- Document Completed Work Items
- Witness All Tests
- Measure Quantities for Payment
- Provide Photographic Records
- Review Final As-Built Survey
- Analyze Contractor Claims
- Coordinate Start-Up Activities
- Evaluate and Prepare Change Orders
- Provide Field Engineering and Design Services and Respond to Contractor's Request for Information
- Maintain Record Prints
- Line and Grade Checks
- Review Payment Requests and Provide Monthly Status Reports
- Analyze and Evaluate Test Results
- Conduct Substantial and Final Completion Inspections
- Prepare Punch Lists of Incomplete Items

Post-Construction Phase

- Certify Contract Completion
- Prepare Contract Completion Report
- Prepare Record Drawings
- Provide Photographic, Written, and Videotape Records
- Represent Client in Residual Claims, Claims Preparation/Defense
- Conduct Post-Construction Performance Monitoring Program
- Provide Expert Witness and Advisor to Counsel

STATEMENT OF UNDERSTANDING

D. CIVIL ENGINEERING/STORMWATER



Our project team has extensive experience working on a variety of civil, site design, and infrastructure improvement projects including stormwater, transportation, landscaping, structural, and related fields. Our urban design and permitting experience includes conceptual plans, site planning, final design, grant applications, and related activities such as landscape architecture services and lighting.

Jones Edmunds uses the latest proven technologies in our design endeavors. We use AutoCAD Civil 3D for design and plans production. For site designs and corridor-type designs for roadway, stormwater, and utilities, this software allows efficient evaluations of multiple design alternatives to determine impacts to project

constraints such as right-of-way limits, wetlands, or utilities. This three-dimensional approach to design allows our engineers and designers to effectively address a variety of design parameters and quickly perform “what-if” design scenarios to minimize work, costs, or adverse impacts to surrounding properties.

We provide innovative, practical, cost-effective solutions to the challenges of modern stormwater management. Our staff has extensive experience in stormwater analysis, design, permitting, and construction. We tailor our stormwater design to the unique needs of the project, which may include drainage basin studies, piping systems design, pump design, modeling, swale systems design, and/or retention/detention pond designs for stormwater treatment, improved conveyance systems, and flood control. We have also designed and permitted several projects using Low-Impact Development/Green Infrastructure measures. Our local Jones Edmunds staff has the capabilities and experience to help the City complete these stormwater elements as well as solving any other stormwater-related issues that may arise. The Jones Edmunds team has one of the most experienced stormwater modeling and design teams in Florida. Our modeling expertise has proven invaluable in the permitting process, offering in-depth insights into permitting options. Additionally, our complete GIS services actively support water resource and stormwater management applications and analysis. In general, stormwater design may require one or more of the following elements:

- Determining which local, Water Management District, state, and federal regulations will govern the project. This determination is foundational for the design.
- Conducting field investigations to determine hydrological parameters, soil types, site constraints that might impede conveyance, and land uses applicable to the stormwater basin.
- Preparing stormwater calculations including watershed delineation; pre- and post-construction rainfall runoff; pre- and post-construction pollutant loading where applicable; and pipe, swale, and/or pond sizing.
- Modeling potential conflicts with other utilities, rights-of-way/easement constraints, and maintenance concerns as well as wetland considerations.
- Determining survey and geotechnical requirements along with reviewing the products from those services.
- Modeling the stormwater system using storm events and frequencies as appropriate to the regulatory setting. Jones Edmunds is experienced with a variety of stormwater models such as ICPR, PONDS, HEC software, and SWMM.
- Designing stormwater conveyance and/or retention/detention systems to meet the project objectives.
- Implementing sediment basins and trash traps to minimize maintenance and improve water quality and flow conditions.
- Preparing a stormwater facility permit application and submitting it to the governing Water Management District.
- Providing post-design construction services, including reviewing construction shop drawings, responding to contractor questions, observing construction, and analyzing pay requests.
- Providing as-built certification of stormwater facilities to Water Management Districts.

STATEMENT OF UNDERSTANDING

E. TRAFFIC ENGINEERING

Safety, level of service, and cost-effective construction are achieved through proper planning and design of transportation facilities. In addition to specific client needs, these three elements are the primary focus of all Jones Edmunds transportation projects. Our transportation group consists of engineers, designers, scientists, field technicians, and CAD operators with extensive experience. Jones Edmunds provides services for transportation projects ranging from conceptual preliminary studies, preparation of detailed drawings and specifications, to construction-phase services including resident observation and pavement analysis and management systems. [Additional transportation design services include roadway design, new alignments, realignments, lane widening/lane additions, turn lane additions, traffic signal design, 3R projects, pavement design and analysis, and multi-use paths, such as trail, bike, and pedestrian designs.](#) In addition, we have added ICON to our team to further strengthen our services in this area as detailed below.



Signalization Design Services

ICON's vast experience includes countless traffic signal and interconnect designs working with City, County, State, private agencies throughout Florida. Our signal design approach is to provide the safest operation for vehicles and pedestrians while minimizing impacts to underground and overhead utilities. At busy intersections with minimal clear area for large drilled shaft foundations, we have provided 3D CAD files to the power company to analyze our proposed pole location compared with their overhead lines. This coordination allowed poles to be located closer than OSHA standards to avoid other utility impacts or require right-of-way. We have completed recent signal designs using microwave, video, and loop detection as well as audible pedestrian push-buttons for the visually impaired.

Traffic Studies/Traffic Flow

Over the past 5 years as FDOT's Traffic Studies consultant, ICON completed 250 safety and traffic operational studies, including 64 signal warrant studies. Our traffic studies expertise also includes Roundabout Evaluations, traffic calming, operational analyses, mid-block crosswalk evaluations, pedestrian and bike road safety audits, and access management. Data collection expertise includes machine volume and classification counts, vehicle and pedestrian turning movement counts, delay studies, spot speed, signalized left-turn delay, and gap studies. One recent example of ICON's unique traffic study experience includes the East-West Green Spine Corridor Study for the City of Tampa. ICON was responsible for developing a report and conceptual plans that consisted of an urban cycle track along Cass Street, Nuccio Parkway, and 15th Street. Elements evaluated included the addition of two-way cycle track on one or both sides; transition to physical separation on-street versus trails; impacts to HART, CSX, existing utilities, and other stakeholders; impacts to parking and access management; and the need for right-of-way. Stakeholder meetings and presentations were conducted with FDOT, the Hillsborough County Metropolitan Planning Organization, Hillsborough Area Regional Transit Authority, Tampa-Hillsborough Expressway Authority, and local communities within the corridor. Preliminary plans and cost estimates were developed and the segments were prioritized so that the City could submit funding applications to the MPO and FDOT for the construction.

Street Lighting

ICON offers a variety of lighting design experience from major interchanges to decorative, low-level lighting for urban streetscapes, such as a recently completed Complete Streets project on 21st/22nd Streets in Ybor City. Our staff is extremely up-to-date with current lighting criteria and recently applied the latest FDOT Vertical Foot-Candle Criteria for a new roundabout at SR 44 and Grand Avenue Design-Build project. To increase pedestrian and bicycle safety by providing crosswalk lighting at wide signalized intersections, we are working with FDOT on an innovative design to install smaller, LED fixtures on the mast arms over the roadway. This cost-effective, innovative design could save valuable financial resources while increasing safety at some of the state's most dangerous intersections.

STATEMENT OF UNDERSTANDING

F. WATER/WASTEWATER ENGINEERING

Jones Edmunds has designed, obtained permits for, and administered construction of utility distribution and collection systems, water and wastewater treatment plants, and other related facilities throughout Florida. We are experienced with the FDEP permitting process and requirements for each of these systems. We also have extensive experience with utility relocations and upgrades on a variety of projects for municipalities, counties, and FDOT as part of an overall roadway widening or streetscaping project.

We use several tools to assist us in our water design efforts. We routinely use modeling software integrated with GIS to perform hydraulic modeling of water transmission and distribution systems. Our modeling software is an effective tool for designing new water systems and for evaluating existing systems. Jones Edmunds also has extensive experience in field-testing to provide information for calibrating the water system model. This allows us to use the hydraulic model to evaluate an existing system's ability to provide adequate fire flow and to recommend improvements.



Jones Edmunds Team members have designed groundwater treatment facilities to address a wide range of water quality issues. **Our treatment solutions have included conventional treatment, softening including both lime and membrane softening, ion exchange, oxidation, sulfide removal, chemical coagulation and optimization, and traditional and advanced disinfection.** We understand that a key aspect to any treatment plant is not only achieving water quality goals but also managing/disposing of the residuals generated throughout the treatment process.

Our engineers have performed sophisticated research in water treatment and purification that has **led to the development of unique concepts in plant design and treatment technology**, as recently evidenced in the scaling up of magnetic ion exchange to solve water quality issues for the City of St. Cloud. We have also demonstrated the world's first use of side-stream ozone addition with degasification to control dissolved oxygen concentration levels for potable water treatment and vacuum degasification for dissolved oxygen control for potable ASR systems. Our support of more than 25 local government clients keeps us constantly up to date on the design and regulatory requirements necessary to complete water system improvements and expansions.

Jones Edmunds is also well-versed in various pipe materials and types. Our design professionals also stay abreast of new pipe technologies, such as the use of fusible PVC as an alternative to HDPE for waterline horizontal directional drills. We have completed several projects using this new methodology. In tight working quarters, in areas where open cuts of pavement must be avoided, or in areas where crossing of water bodies or wetlands is required, we use trenchless rehabilitation technologies for water and sewer pipelines. These technologies include pipe bursting, slip lining, cured-in-place pipe horizontal directional drilling, jack-and-bore, and other trenchless technologies.

We have designed, permitted, and implemented several reclaimed water pumping stations and improvements to transmission and distribution systems including storage and booster pump improvements. We have also designed water treatment, pumping, and distribution systems with capacities of over 100 MGD. Jones Edmunds excels in designing water distribution systems that are subject to large flow and pressure transients. We apply state-of-the-art computer modeling techniques during design phases to evaluate system performance and to fulfill design criteria. Specialty areas include:

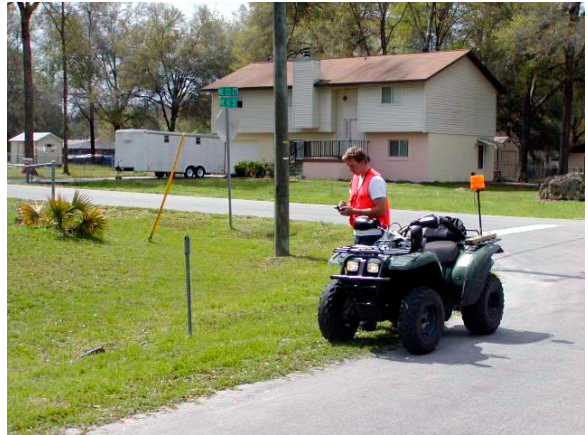
STATEMENT OF UNDERSTANDING

- Industrial and Domestic Water Sources
- Master Planning for Supply and Distribution
- Membrane Treatment – UF/MF/NF and RO
- Pilot Testing – Membranes, Ion Exchange
- Treatment Plant Design
- Pumping and Piping System Design
- Potable ASR Wells and Degasification
- Recharge Wells for Reclaim/Stormwater
- Deep Injection Wells
- Energy Conservation
- System Monitoring
- Feasibility Studies
- Process Evaluation
- Instrumentation/SCADA System Design
- Water Hammer Transient Analysis
- Steady-State Hydraulic Analysis
- Construction-Phase Services
- Rate Studies

H. PAVEMENT MANAGEMENT

Jones Edmunds has extensive experience conducting pavement assessments using the American Society for Testing and Materials (ASTM) standard D6433-16 "Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys." This practice determines the condition of roads through visual surveys using the Pavement Condition Index (PCI). The PCI is a numerical indicator based on a scale of 0 to 100 that measures the pavement's integrity and surface operational condition. Our approach to this work includes: Data Development – A compilation of existing digital data.

- Database Design – Development of a relational database management system to store all project data. The database design will facilitate fieldwork, data analysis, and final delivery to the client.
- Roadway Segmentation – A roadway segmentation system is necessary for piecing the inspection work into more manageable lengths and to better reflect pavement-resurfacing activities. This is typically done within an appropriate GIS.
- Roadway Classifications – Establishing functional classifications to each roadway segment and branch.
- Field Verification and Capture – During the inspection survey, the field crew verifies all ancillary data previously collected.
- Develop and Configure Field Data Collection Tools – A configuration and customization of the data to be collected based on the client's needs and maintenance practices.
- Pavement Condition Survey – Performing "windshield survey" to quantify the pavement distresses in general accordance with the ASTM D6433-16.



I. GIS SERVICES/ASSET MANAGEMENT

Jones Edmunds is one of the few Florida-based engineering firms offering complete in-house GIS services. Our GIS personnel are degreed professionals encompassing a breadth of technical disciplines including civil and environmental engineering, geography, urban and regional planning, stormwater management, geology, and asset management. This combination of engineers, analysts, programmers, and scientists has enabled us to successfully build GIS data and applications for infrastructure management. Jones Edmunds is experienced in designing, populating, and implementing local government geodatabases that improve facility mapping, design, monitoring, modeling, and asset and work-order management. Additionally, our staff offers a wide variety of professional GIS support and consulting services tailored to the needs of our clients:

- Utilities Infrastructure Mapping and Database Development
- Asset Management
- Mapping and Spatial Analysis
- Model Development
- Data Conversion Services
- Application Development, Training, and Implementation Services
- Image Processing and Remote-Sensing Services
- Global Positioning System (GPS) Services

Our complete GIS services actively support water resource and stormwater management applications and analysis. Our digital mapping of storm drainage systems, combined with digital-orthophotos, existing surveys, and

STATEMENT OF UNDERSTANDING

field GPS data collection, is the foundation for economical infrastructure management. Jones Edmunds is also an Esri (Environmental Science Research Institute) Business Partner, a relationship that benefits our clients by our being able to supply and integrate ESRI's standards and technology into our clients' systems and to train client staff in these standards and technology. Our approach to GIS combines Jones Edmunds's engineering and environmental expertise with our data management and programming capabilities to provide integrated services to our clients.

For over 15 years, Jones Edmunds has been providing asset management system implementation services to our utility and public works clients. From our first Cityworks implementations with GRU in 2002 to St. Johns County Utilities, Destin Water Users, City of St. Cloud, and Florida Keys Aqueduct Authority, our engineers, scientists, and programmers work together to provide innovative integrated approaches and solutions to each unique asset management system implementation. We give our clients a level of integration, supply, and training in standards and technology that few other firms can offer. We routinely perform Data and Process Assessments as part of our EAM system implementations. We recognize and understand the intended purpose in this case is to evaluate the existing data and processes in place so as to develop evaluation criteria and ultimately make recommendations for implementing new technologies and processes. As part of our EAM implementations, we evaluate existing data, processes, and/or workflows and make recommendation and implement new processes and/or workflows that are sometimes similar and other times much different. The goal is to reduce operational stresses and redundancies and to streamline work and data flow efficiencies while minimizing costs and increasing transparency.

J. GRANT ADMINISTRATION

Communities routinely face the financial pressures of providing quality services to citizens, including furnishing cost-effective solid waste disposal, safe roadways, and quality recreation facilities, while protecting our natural resources for future generations. Jones Edmunds provides professional support services to obtain funding from various federal and state agencies as well as through legislative appropriation. Our goal is to assist the City with your infrastructure needs, economic development opportunities, and planned growth while maximizing any grant and low-interest loan dollars that may be available for a project – programs and agencies such as SRF, FRDAP, SCRAP, SCOP, CIPG, FBIP, DEO, EPA, FEMA, CDBG, FDEP Solid Waste Grants, Springs Funding, USDA Rural Development, and SWFWMD Cooperative Funding – and be ready to help you navigate the related requirements.



We have an established history of developing funding strategies for a broad range of projects and assisting with grant-reporting requirements for many project types. Our success starts with developing project concepts that are readily supported (i.e., they are cost-effective, often achieve multiple goals, and receive broad stakeholder support) and integrating them into a needed infrastructure project. We also believe that we must 'pre-sell' the idea to the funding agencies. Often various elements of a project are eligible for dollars from different sources of funds. Understanding the various agencies' goals and missions is key to the 'pre-sell' concept. We do not believe that the first time a funding agency sees a project should be when they receive the grant application. As we develop grant-fundable projects, we are mindful of the grant requirements and generate the required information as a part of our project work so that the needed information is readily available for the grant application. We also have extensive experience working on grant-funded projects and helping with grant-funding-reporting requirements. [This work is routine for us. We have several staff trained specifically for this task because we believe it is an important service to provide clients.](#)

Our success in obtaining grant funding is in part due to our ability to develop innovative, cost-effective designs. Jones Edmunds' funding services include the following:

- Preparation of Legislative Documents
- Legislative Tracking/Lobbying
- Grant/Loan Procurement Assistance
- Grant/Loan Administration
- Bond Issue Support
- Training and Assistance
- Fiscal Planning
- Troubleshooting
- Rate Studies
- Funding Workshops



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