



EDUCATION

Bachelor of Science, Civil and Environmental Engineering, University of Massachusetts at Amherst, 2002

Master of Science, Environmental Engineering, University of Massachusetts at Amherst, 2005

REGISTRATIONS

Professional Engineer, 69875, FL, July 2009

COMPUTER/SOFTWARE SKILLS

Microsoft Office Applications, Bentley Applications (WaterCAD, SewerCAD), AutoCAD Applications (limited), ArcGIS Applications (limited)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, 2008 – Present

- Florida Section Engineering Encounters Bridge Design Committee Chair, 2012 – Present
- East Central Branch STEM Committee Member, 2017 – Present

American Society of Highway Engineers, 2017 – Present

EXPERIENCE PROFILE

Robert Best is a Senior Engineer with 15 years of a wide range of experience, specializing in project management, study, design, and construction services in the area of land development, utilities, and transportation, including the analysis, design, and permitting of water distribution systems (WDS), wastewater collection systems (WCS), water reuse systems, and roadways. Expertise includes: hydraulic analysis; master planning and demand analysis; identifying utility routes/corridors; design of watermains (WM), gravity sewers, and force mains (FM); the design of booster pump stations (PS) and lift stations (LS); design of water/wastewater (W/WW)/reuse treatment plant components; design of storage tanks; pavement marking design, grading design, site evaluation, and transportation corridor evaluations.

REPRESENTATIVE PROJECT EXPERIENCE

OM Engineering Services, Inc. (2017 – Present)

Kirkman Extension, Orange County, FL, Senior Engineer & QC

Evaluated roadway corridor alternatives, railroad/transit clearance requirements, site restrictions for proposed transportation corridors, and analyzed interchange configuration redesign options, etc.

Adventure Way On/Off Ramps at I-4, FDOT D5, Orlando, FL, Senior Engineer & QC

Assisted with the design of revised travel lanes and overall QC of design components, etc.

Universal Boulevard, Orlando, FL, Senior Engineer & QC

Assisted with the design of revised travel lanes, signing and pavement marking (S&PM), and overall QC of design components, etc.

South Parking Road/Tram Road Modifications, Orlando, FL, Senior Engineer & QC

Provided project status updates and coordination, review of designs with regards to compliance with the MUTCD, grading design, the design of additional/ revised travel routes/lanes, S&PM design, and overall QC of design components, etc.

Water Treatment Plant and Breakaway Trails Elevated Storage Tank Repair, City of Ormond Beach, Florida, Project Manager & QC

Finalized the design of repair work for two elevated storage tanks (ESTs) (250,000 gallon and 400,000 gallon). The work included the design of painting and coating, rehabilitation of structural deficiencies, and value engineering. Responsibilities included preparation of contract documents and associated cost estimate.

SR 710, FDOT D1, Okeechobee, FL, Senior Engineer & QC

Assisted with the design of S&PM, the design of master arm locations and overall QC of design components, etc.



SR 82, FDOT D1, Lehigh Acres, FL, Senior Engineer & QC

Assisted with the development of MOT plans, the design of temporary S&PM, and overall QC of design components, etc.

Jones Edmunds & Associates, Inc.
Project Engineer (2008 – 2017)

Deep Creek West Regional Stormwater Treatment Area PER, St. Johns County/SJRWMD, Project Engineer

Designed and performed calculations for the upgrade and replacement of an existing 450 gpm storm water treatment system PS. Revisions included, but were not limited to, redesign of the intake screens, sizing of the pumps to handle both average flows and peak seasonal flows, and concrete structure modifications, etc.

Kennedy Space Center (KSC) Water and Wastewater Systems Revitalization, NASA, Task Manager/Project Engineer

This design effort is a multiphase design and construction project to revitalize the water and wastewater systems and repurpose the activities at KSC. The project scope included civil, environmental, structural/architectural, mechanical, and electrical design and construction efforts. Based on a Center-wide Water and Wastewater System Master Plan prepared by Jones Edmunds, designed improvements to reduce water age in the KSC system using flow diversion, pipe paralleling, and pipe-reduction techniques; enhanced fire-flow capabilities; enhanced KSC's ability to monitor water quality and system operations; replaced/improved/upgraded system components that are at high risk of failure; and install metering at various locations. There were several projects/phases:

Upgrade KSC Water and Wastewater System, Phase II (FY10), NASA

Responsible for the design of the installation of one 18-inch check valve and nine 24-inch isolation valves along an existing 24-inch WM, the installation of a 12-inch control valve assembly, the installation of approximately 585 linear feet (LF) of 12-inch DI WM, and the replacement of one LS.

Revitalize Kennedy Space Center Water and Wastewater Systems Phase 3 (FY11), NASA

Internally managed the design team. The design included the installation of approximately 120,600 LF of WM between 4-inch and 16-inch in diameter; approximately 20,200 LF of gravity sewer between 4-inch and 12-inch in diameter; approximately 8,250 LF of FM between 4-inch and 8-inch in diameter; the rehabilitation and/or replacement of nine LSs (ranging in design capacity between 30 gpm and 325 gpm); the demolition of two ESTs; and the installation of a 3,200 gpm booster PS (BPS) along with a 500,000 gallon ground storage tank and a 15,000 gallon hydroneumatic tank. Installation methods included open-cut, jack and bore (J&B), horizontal directional drill (HDD), cured-in-place pipe (CIPP), and pipe bursting. Responsibilities include the W/WW components.

Revitalize Water & Wastewater Systems Phase 4 (FY12), NASA

Internally managed the design team. The design included the installation of approximately 107,250 LF of WM between 4-inch and 18-inch in diameter; approximately 1,840 LF of gravity sewer between 4-inch and 8-inch in diameter; approximately 21,470 LF of FM between 4-inch and 6-inch in diameter; and the rehabilitation, replacement, and/or installation of 41 LSs (ranging in design capacity between 40 gpm and 450 gpm). In addition, 31 other LSs had their electrical and control systems upgraded. Installation methods included open-cut, J&B, HDD, CIPP, and pipe bursting. Responsibilities include the W/WW components.

KSC W/WW Systems Phase 5 (FY 15), NASA

Internally managed the design team. This design effort is a follow-on project, Phase 5, to the multiphase design and construction project to revitalize the water and wastewater systems and repurpose the activities at KSC. The design included the installation of approximately 23,700 LF of WM between 4-inch and 16-inch in diameter; approximately 1,830 LF of gravity sewer between 4-inch and 8-inch in diameter; approximately 7,720 LF of FM between 1.5-inch and



4-inch in diameter; the installation of three new LSs (ranging in design capacity between 25 gpm and 100 gpm); the installation of a 3,100 gpm booster PS; and the demolition of an existing, adjacent BPS. The BPS also included an automated chlorine analyzer along with a chemical injection system. Installation methods included open-cut, J&B, and HDDs. The project scope included civil, environmental, structural/architectural, mechanical, and electrical design and construction efforts. Responsibilities include the W/W components.

Centralized Wastewater System - Phase II, Taylor Coastal Water & Sewer Dist., Project Engineer

Designed a low-pressure WCS to add to Dekle Beach and Dark Island. Designed and performed calculations for the installation of a low-pressure WCS. Designed miscellaneous upgrades to an existing package wastewater treatment plant including anchoring an existing generator skid and installing grating, handrails, and a potable lift atop the package wastewater treatment plant. Prepared specification language and coordinated with funding agencies. Prepared and submitted FDEP permit applications and supporting information and responded to RAIs.

East Putnam Water System Construction, Putnam County, Project Engineer

Provided all planning, design, and permitting for the new regional water system. We also performed the construction-phase permitting services for this project. Executed and delivered construction contracts to the contracting parties and the funding agencies. Designed and performed calculations for the installation of three potable water distribution mains which comprised of approximately 2,400 LF of 6-inch PVC WM, approximately 4,800 LF of 10-inch PVC WM, approximately 85 LF of 8-inch HDPE WM by HDD, and approximately 85 LF of 10-inch HDPE WM by HDD. Prepared and submitted FDEP permit applications and supporting information and responded to FDEP RAIs.

SLF Infrastructure Phase 1 Development, NASA, Project Engineer

Provided planning, surveying, geotechnical evaluation, design, and permitting services to NASA to repurpose the Shuttle Landing Facility (SLF) as a multi-use horizontal launch and landing facility. The SLF design project provides construction documents and permits to install common-use infrastructure, the design of which is based around schematic designs from the preceding studies for future commercial and industrial tenant hangars, buildings, and roadways to be developed along the SLF runway. Managed the utilities design team and EOR for potable water, non-potable industrial water, wastewater, and high-pressure gas design.

Tucker Road Water Main Expansion, City of Zephyrhills, Task Manager/Project Engineer

Designed the first phase of a multi-phase project to expand the City of Zephyrhills WDS and create a loop in the southern part of the City's WDS along US Route 301 and Tucker Road. This first phase was the construction of a new 8-inch WM that extended the City of Zephyrhills WDS west along Tucker Road. The project included engineering, design, permitting, and record drawings for approximately 1,500 LF of 8-inch PVC WM (of which approximately 325 LF was installed with 10-inch HDPE WM by HDD). The line was run along Tucker Road from west of 20th Street/Copeland Drive to just east of US Route 301.

Breeze Swept, Septic to Sewer, City of Rockledge, Project Engineer

Designed the LS, FM, and gravity sewer system to connect the Rockwood/Knollwood Gardens subdivisions to the City's Wastewater Treatment Facility to eliminate septic tanks in these subdivisions. The system will serve 143 residences near the Indian River Lagoon in Rockledge. The project includes abandonment of existing septic tanks, road replacement, and directional drill under US Highway 1 and Florida East Coast Railroad tracks. The work includes construction of approximately 47 sanitary manholes, 8,000 LF of 8-inch PVC sanitary sewer, service laterals, septic tank abandonment, 4,000 LF of 6-inch PVC FM, valves, fittings, a new LS, site work, maintenance of traffic, sidewalk, driveway, asphalt pavement removal and replacement, and all other work items necessary for a complete installation. Responsibilities included the gravity sewers, FM, and LS.