

AIKENHEAD CONSULTING, INC.

NEIL AIKENHEAD, P.E. PROJECT OVERSIGHT ENGINEER

Profile

Mr. Aikenhead is President of Aikenhead Consulting, Inc. (ACI), providing design and construction management, legal consultation, and quality assurance for cities, counties, engineering firms and law firms throughout northeast Florida. His over 40 years experience in engineering design oversight, project management, construction management, field investigations and permitting management for projects of all sizes and complexity provides invaluable insight for design and permitting management, QA/QC, expert witness, engineering legal consultation, and construction management.

Mr. Aikenhead's experience is water resources, environmental engineering, solid waste, and environmental permitting related to transportation, drainage, water, sewer, and infrastructure projects for public and private clients. He was a member of the Lower St Johns River TMDL Executive Committee from its inception in 2002 and served on the FDEP Statewide Stormwater Rule Technical Advisory Committee (TAC) throughout its duration.

Mr. Aikenhead's experience provides perspective for infrastructure engineering, property acquisition, regulatory and permitting effectiveness, design management, construction management, and expert witness needs.

Following are brief overviews of a few of Mr. Aikenhead's experiences:

- ◆ **Senior Engineer, Manager for the Herbert Hoover Dike (HHD), Reaches 2-3, Major Rehabilitation Report (MRR), US Army Corps of Engineers.** The HHD MRR is a comprehensive study and funding warrant document for a \$1 billion rehabilitation of approximately 30 miles of the 143-mile Herbert Hoover Dike surrounding Lake Okeechobee. Mr. Aikenhead provided overall document and technical development management services for the USACE beginning in October, 2009 and moved the project ahead substantially during his tenure. Duties included working with all members of the Project Delivery Team (PDT) to coordinate issues, creating a viable project schedule, managing delivery of documentation on schedule, coordinating technical aspects of the MRR with PDT members, managing coordination of all elements of the document, and overseeing writing of the document in accordance with insight gained and project intent/needs. Mr. Aikenhead also assured document technical accuracy, uniformity, and clarity, managed the cost estimate Cost & Schedule Risk Assessment (CSRA), and managed the Risk Assessment Quality Control & Consistency (QCC) review and initial phases of the Risk Assessment Agency Technical Review (ATR) DrChecks process.



Education

- Georgia Tech – Bachelor of Science Civil Engineering (BSCE), 1967
- Georgia Tech – Master of Science Sanitary Engineering (MSSE), 1969

Registrations & Positions

- Professional Engineer – Fla PE 14066 (Retired) Ga PE 12350 (Inactive)
- FDEP Statewide Stormwater Rule Revisions TAC, 2008-2009
- Lower St Johns River TMDL Executive Committee, 2002-2012
- Aikenhead Consulting, Inc, President, 2002-Present
- US Army Corps of Engineers, Senior Engineer, 2009-2010
- River City Mgmt Group for Better Jax Plan, Project Manager, 2004-2009
- Edwards and Kelcey Engineers & Planners, Vice President, 2002-2003
- Aikenhead & Odom Consulting Engineers, President, 1979-2002.
- Waitz & Frye Consulting Engineers, Vice President, 1972-1979.
- Florida Dept of Health, Bureau of Sanitary Engineering, WWTP Review Engineer 1971-1972
- Florida Dept of Health, Bureau of Sanitary Engineering, Asst Regional Engineer, 1969-1971

Experience

- 40+ years in Regulatory, Design, and Construction Management

Overviews, Cont'd

- ◆ **Program Management Services for the Better Jacksonville Plan Road & Utilities Improvements**, *City of Jacksonville*. The Better Jacksonville Plan is a \$2.25 billion comprehensive growth management strategy providing transportation and utility infrastructure improvements. Services include program and construction management, roadway planning and utility relocation design reviews, community involvement, and EEO/MBE outreach. Mr. Aikenhead was CEI manager for projects in construction from 2004-2006 and from 2006-2009 he managed all design and permitting. This included management of all aspects of construction, reviewing contractor and consultant submittals, oversight of all reports, exhibits, permit applications, progress submittals, specifications and construction bid documents, monthly utilities coordination meetings, and providing oversight and guidance for the CEI managers.
- ◆ **City of Atlantic Beach Stormwater Master Plan**, *Atlantic Beach*. Mr. Aikenhead provided Senior Drainage Design Oversight and Public Awareness Management for a highly-successful master plan, SWMM model, and infrastructure design for an outfall-limited stormwater system and rehabilitation/upgrade of Core City streets and drainage.
- ◆ **Red Bay Branch Flood Mitigation**, *City of Jacksonville PWD*. Mr. Aikenhead provided Design and Permitting Management for a flood mitigation and control design to resolve stream sedimentation within a completely developed area. Design included a sedimentation pond within an existing stream bed and wetland mitigation within the flood plain to resolve long term flood rise issues with adjacent residences.

Highlights of Experience

Mr. Aikenhead is President of Aikenhead Consulting, Inc. and has been responsible for project design management and supervision of water resource engineering projects as well as construction inspection, management, and CEI for infrastructure projects in Florida for 40 years. He has extensive experience as President, Project Manager, and Project Engineer in construction, engineering, and permitting for major infrastructure improvement projects in the water resources, environmental/sanitary, and civil engineering fields. Mr. Aikenhead has provided planning, engineering, design, and construction management for municipalities, port authorities, transportation authorities, local and State governmental agencies, and private development throughout Florida, concentrating in northeast Florida and the Jacksonville area. During late 2009 and most of 2010 Mr. Aikenhead provided management for a \$1B funding documentation process for the US Army Corps of Engineers (USACE), during which time his method of managing technical personnel proved invaluable to the USACE. From 2004 to 2009 Mr. Aikenhead provided CEI and design review and oversight for the Better Jacksonville Plan infrastructure improvements program, utilizing his extensive prior experience to further this extensive City of Jacksonville infrastructure improvement program.

Mr. Aikenhead served on the FDEP Statewide Stormwater Rule Revisions Technical Advisory Committee since its inception in 2008 to its close in 2010, served on the Lower St Johns River TMDL Stakeholders Group Executive Committee since its inception in 2002, served on the SJRWMD TAC's for 40C-4 and 40C-42 rule development, and served with the FDEP Secretary for delegation of FAC 17-25 Statewide Stormwater Treatment Rule to the State Water Management Districts. The following provides a summary of the types of projects Mr. Aikenhead has worked on:

Management Services for USACE Herbert Hoover Dike Major Rehabilitation Report

Mr. Aikenhead provided overall document and technical development management services for the Herbert Hoover Dike (HHD) Major Rehabilitation Report (MRR) for the US Army Corps of Engineers (USACE) from October, 2009 to October, 2010. The MRR is a comprehensive study and funding warrant document for a proposed \$1 billion rehabilitation of approximately 30 miles of the 143-mile Herbert Hoover Dike surrounding Lake Okeechobee, which retains stormwater flows from a 5,600 square mile drainage shed stretching from Orlando south to the 725-acre Lake for subsequent controlled release

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to irrigation, evapotranspiration, or tide via limited canals. Mr. Aikenhead's effort involved working with all members of the Project Delivery Team (PDT) coordinating technical delivery schedules, assisting in resolution of technical issues, and developing a viable product delivery schedule of specific segments of the overall process and the overall MRR document development and review schedule. The PDT consists of over 50 technical members, including Risk Management professionals, statistical analyzers, Coastal Engineers, Hydrologist, Hydraulics experts, Professional Geologists, Structural Engineers, and multi-discipline Professional Engineers. Mr. Aikenhead developed relationships with all the PDT members to manage delivery of technical segments of the overall documentation on schedule, gain insight into technical aspects of the MRR from those PDT members, manage coordination of all elements of the document, and oversee writing of the document in accordance with insight gained and project intent/needs. Mr. Aikenhead also assured document technical accuracy, uniformity, and clarity, managed Cost & Schedule Risk Assessment (CSRA) for the detailed Cost Estimate process, managed the Risk Assessment Quality Control & Consistency (QCC) review, and started managing the Risk Assessment Agency Technical Review (ATR) DrChecks process. The project schedule moved ahead substantially during Mr. Aikenhead's tenure.

Program Management Services for Better Jacksonville Plan Road & Utilities Improvements

As Project Manager for the BJP, Mr. Aikenhead performed CEI services for Lone Star Rd Improvements, a project he designed as Aikenhead & Odom, and for Belfort Rd, Barnes Rd, Hendricks Ave, Hodges Blvd Open Creek to Beach, Spring Park Emerson to University, and others. He acquired all design review and oversight management duties in 2005 and assisted design consultants and the BJP program with the design, permitting, bidding, awarding, and oversight/guidance of all the CEI managers for the following projects: Dean Rd, Ft. Caroline Rd, Girvin Rd, Hartley Rd & Deep Bottom Creek, Hodges Blvd Beach to Atlantic and Sandalwood Canal, Hood Rd St Augustine to Shad, Kernan Blvd Butler to Wonderwood, San Pablo Rd Beach to Atlantic, Spring Park Rd Bowden to University, St Augustine/Greenland Slip Lane, and Touchton Rd. His significant experience and innovative concept oversight saved an estimated \$7 Mil to \$12 Mil in R/W acquisition and infrastructure costs during his tenure with the program. Responsibilities on up to 10 projects at one time included:

- Client coordination and update City of Jacksonville BJP for roadway/drainage and JEA for water/sewer/electric.
- Manage and report project budget status, including updating engineer's estimates for construction, tracking R/W acquisition estimates and actuals, consultant fee and supplements agreement costs, and mitigation and permit costs.
- Manage project schedules for all projects in design, including 50%, 90%, 100%, and Final submittal documents, scheduling of R/W acquisition, permitting, bid process to point of NTP, and estimate of construction time.
- Manage consultant design submittals, review reports, exhibits, plans, specifications and construction bid documents.
- Review and approve consultant design fee proposals and supplemental agreement submittals.
- Review and approve consultant invoices.
- Manage review comments from review engineers and all utilities.
- Review and approve consultant permit application submittals.
- Manage and track project permit applications and final permit approvals.
- Manage and track project wetland mitigation needs and mitigation bank satisfaction.
- Manage and track project tree mitigation needs and satisfaction.
- Chair monthly utilities coordination meetings.
- Provide oversight guidance for CEI managers.
- Provide construction modification input as required during construction process for all projects in construction.

City of Atlantic Beach Master Stormwater and Core City Improvements

As Principal Engineer and Project Manager, Mr. Aikenhead was in charge of the planning, public awareness program, hydrologic and hydraulic modeling, and engineering design effort required by historic and ever-increasing flooding in this highly developed, outfall-limited coastal urban community. Project involved numerous public presentations and careful handling of substantial political concerns, innovative use of permit parameters, close coordination with regulatory personnel, and use of the latest modeling tools to achieve a win-win project for City public officials, regulatory agencies, and the residents.

Lone Star Road Improvements and Red Bay Branch Flood Mitigation, Jacksonville, Florida

As Senior Water Resources Engineer, Mr. Aikenhead oversaw all planning, public awareness, hydrologic and hydraulic modeling, and development of a combined wetland impact, sediment control, and flood mitigation and control design effort to mitigate flooding from stream sedimentation within a completely-developed residential community. Residents were in process of suing the water management and public works authorities. Mr. Aikenhead's interactive, hands-on approach to the community and public agencies involved, use of innovative hydraulic/hydrologic design, sediment control design, and wetland mitigation efforts, resulted in a win-win product for the community, agencies, and environment. Mr. Aikenhead was also EOR for the roadway and utilities design efforts for the Lone Star Rd, Mill Creek Rd to Arlington Rd project.

George King Boulevard Improvements, Port Canaveral, Florida

As Senior Water Resources Engineer, Mr. Aikenhead was in charge of stormwater design and permitting for a new single-point urban interchange and widening of a 3-mile segment of existing roadway through the industrial center of the highly developed Port of Canaveral. Mr. Aikenhead's efforts gave the project innovative stormwater transmission design and careful management of stormwater discharge to manage the issues of tidal, estuarine, and Outstanding Florida Water environments surrounding the project.

SR 600 (US 17/192) Bridge over Reedy Creek, Kissimmee, Florida

As Permitting and Stormwater Oversight Engineer, Mr. Aikenhead provided wetland impact avoidance direction to the bridge reconstruction alignment process that resulted in minimization of mitigation bank credit use by the Florida Department of Transportation District 5 office.

Wonderwood Corridor, Jacksonville, Florida

As Senior Water Resources Engineer, Mr. Aikenhead was in charge of the stormwater and permitting planning and 60%-level design aspects of a new 10-mile roadway corridor connecting the Beaches communities with the urban areas of Jacksonville. The work was performed for Sverdrup/Jacobs under their contract with the Jacksonville Transportation Authority, and the resulting four final design segments of the corridor are now successfully designed, permitted, and constructed in accordance with the overall 60% design efforts.

Relocation of S.R. A-1-A, Vilano Beach, St. Johns County, Florida

As Principal Engineer and Project Manager, Mr. Aikenhead oversaw final engineering design and permitting for relocation of 3,000 LF of SR A-1-A, allowing utilization of property between the relocated highway and the CCCL. Analysis of salinity and fresh/brackish water interface in the estuarine marsh, and innovative avoidance of wetland impacts while meeting FEMA flood elevation site development requirements at reasonable costs, were all part of Mr. Aikenhead's contributions to this successful development project.

Monument Road Widening, Jacksonville, Florida

As Senior Water Resources Engineer, Mr. Aikenhead provided guidance on a complex hydraulic stormwater collection system, seepage-slope wetland impact avoidance for stormwater treatment ponds, and corridor improvements wetland impact avoidance, resulting in minimum mitigation requirements for this Jacksonville Transportation Authority connector improvements project.

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Emerson Street Improvements, Jacksonville, Florida

As Senior Water Resources Engineer, Mr. Aikenhead provided wetland impact avoidance planning and oversight for this minor collector transportation improvement project immediately adjacent to a natural stream. Critical community objection to the project pond siting was carefully addressed and resolved, resulting in a win-win for Public Works and the surrounding community and residents.

Longbranch Drainage Improvements, Jacksonville, Florida

As Principal Engineer and Project Manager, Mr. Aikenhead was in charge of the design and permitting of a channel improvement project for the City of Jacksonville Department of Public Works. Historic encroachments into this combination natural and ditched drainage course in the central business/residential district of downtown Jacksonville were corrected. Downstream water profile impacts were avoided by innovative use of ACOE field forces and Public Works available properties.

Girvin Road Landfill Closure, City of Jacksonville Solid Waste Division, Jacksonville, Florida

As Principal Engineer and Project Manager, Mr. Aikenhead was in charge of the design and permitting of the Girvin Road landfill closure project for the City of Jacksonville Department of Public Works, Solid Waste Division. This effort was predominantly a terrain modeling and fill quantity assessment, with associated lining, gas management, and stormwater runoff management design efforts.