

Echo K. Gates, P.E., LEED® AP

Associate Vice President

Mrs. Gates has more than 16 years of civil engineering experience in roadway design, environmental permitting, utility coordination, drainage modeling and design, and remotely sensed data collection, analysis, and distribution. Her experience includes design from concept to final plans, NEPA documentation, pavement design, and traffic analysis. She has extensive experience with permitting of projects with multiple agencies at the federal, state, and local levels. During her tenure at the Florida Department of Environmental Protection, she was responsible for the collection, analysis, and distribution of coastal data associated with two statewide regulatory programs. In addition, she has 22 years of construction management experience.

Franklin Boulevard Flood Relief (Blueprint 2000 and Beyond, Tallahassee, FL). This project included conversion of an open ditch to a concrete box culvert and the conversion of a minor collection from a four-lane roadway to two lanes. Included in the improvements were extensive utility coordination and rehabilitation, side street drainage improvements, landscaping, and hardscaping. Extensive permit coordination was required for the project at the local, state and federal levels.

North Tarrant Expressway (NTE) ITS Subsystems and Location Plan (World Fiber Technologies, Inc., Dallas, TX). Intelligent Transportation System design was provided for managed lane construction in Dallas, Texas. This P3 project required location plans and mounting details for all devices. Devices that were utilized include Microwave Vehicle Detectors (MVD), Automatic Vehicle Identification (AVI) antennas, Over-Height Vehicle Detectors (OHVD), Roadway Weather Information System (RWIS), Highway Advisory Radios (HAR), ITS Cabinets, UPS, Manual Transfer Switches, LED Toll Rate Signs, Dynamic Message Signs, and Toll Information Dynamic Message Signs.

LBJ Freeway (LBJ) ITS Subsystems (World Fiber Technologies, Inc., Dallas, TX). Details for the Intelligent Transportation System for the P3 LBJ Freeway Project were provided in this Design-Build project as part of the TxDOT Transportation Network. Mounting details were similar in nature to those provided for NTE.

Great Florida Birding Trail (Florida Fish and Wildlife Conservation Commission, Statewide). Funded by FDOT, this highway signage program directs motorists to birding sites throughout the state. Plans provided signage to allow motorists to reach the

destination sites from the FDOT Transportation System.

Modern, Inc. v. FDOT (FDOT Central Office, Brevard County, FL). Exhibit and report development of an inverse condemnation case between Modern, Inc. and FDOT, and co-defendants St. Johns River Water Management District and U.S. Fish and Wildlife Service. Field reviews, plans, drainage calculations, land use research, and summary of finding reports for FDOT were prepared with the case found in favor of FDOT and the co-defendants. This case defended FDOT against the largest inverse condemnation claim in its history.

Lake Rowell Hydrographic Restoration (Suwannee River Water Management District, Bradford County, FL). A hydrographic analysis was prepared to determine in the hydrographic restoration of Lake Rowell would provide sufficient wetland mitigation for an FDOT roadway project in Starke, FL. Numerical stormwater models of the lake and surrounding watershed and report were prepared.

FPL Transmission Pole Dispute (Florida Power and Light, Brevard County, FL). Exhibits and report development were provided in an inverse condemnation case between Modern, Inc. and FDOT, and co-defendants Florida Power and Light. Land use research, ownership research, and exhibit preparation were prepared for trial. FDOT and Florida Power and Light prevailed in this case.

Cheney Griffin Park (City of Bainbridge, GA). This park plan required the re-alignment of a roadway in downtown Bainbridge, Georgia, to accommodate the park amenities that were to be developed over a number of phases. Included in the plan was utility coordination; permitting at the local, state, and federal levels; CSX coordination; and design plans and specifications.



Duties and Responsibilities

Associate Vice President
Project Engineer

Education

M.S. – Civil Engineering, Florida State University, 1999
B.S. – Civil Engineering, Florida State University, 1997

Registration

Professional Engineer:
FL 58615; GA 31576
FL Stormwater Management Inspector, 17322
GA Level II Design Professional, 55542

Certifications

LEED®AP

Design Programs

AutoCAD CIVIL 3D
ArcGIS
ICPR
Hydraflow
EPA SWMM
XP-SWMM

Professional Associations

American Society of Civil Engineers
Florida Association of Environmental Professionals
USGBC
Adjunct Faculty FAMU/FSU College of Engineering

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