

MADRID CPWG 2030 SR-60 East Bartow, Florida 33830

JOHN DELASHAW, VICE PRESIDENT, GEOTECH DIVISION LEAD



Years of Experience

- With Madrid 12 years
- With other firms 18 years

Education and Research

 B.S. - San Diego State University, Civil Engineering, 1989

Professional Certifications

- FL Professional Engineer #48154
- MS Professional Engineer #21324

Professional Affiliations

- American Society of Civil Engineers
- Association of State Dam Safety
 Officials
- Chi Epsilon (National Engineering Honor Society)

Continuing Education (partial)

- Deep Foundations ('93)
- Florida Dam Safety Annual Conference '97 - '04, '09
- FDOT GRIP & GMEC Meetings
- Deep Foundation Institute Seminar Drilled Shafts ('05)
- ADSC Drilled Shaft Course

PROFESSIONAL PROFILE

Mr. Delashaw currently serves as the Vice President and Lead Geotechnical Engineer for MadridCPWG (Madrid) and is the project principal and/or technical lead for most private sector geotechnical projects performed by Madrid. His primary experience includes project management, contract management, and technical direction of geotechnical engineering projects, geotechnical field investigations, and analyses for numerous public and private sector clients. He is responsible for staffing and resource management and reviewing engineering evaluations for geotechnical investigations in addition to numerous subsidence investigations. He often provides expert witness testimony on forensic projects and is in responsible charge of numerous soil stabilization projects. Much of his over 30 years of geotechnical engineering experience has been gained from working on projects in the areas of: dam design and evaluation; shallow and deep foundation systems; earthworks and site development; soil improvement techniques; specialty soil sampling; sinkhole investigation, evaluation and stabilization; roadway soil surveys; pavement design; and various pipeline projects, including the use of trenchless construction technologies. Other project experience includes management of Quality Assurance/Quality Control activities, resolution of construction issues associated with geotechnical-related challenges, civil and stormwater design, and surface water hydrology. Predominant project experience includes projects throughout the state of Florida, but some projects in Guam, Puerto Rico, Hawaii, California, and Mississippi.

PROJECT EXPERIENCE

Geotechnical investigations, foundation analysis and design recommendations for bridges and multi-story buildings, pavement design, seepage and slope stability analyses for dam design, soil improvement recommendations, etc. for numerous public and private sector clients. Geotechnical Engineer of Record for hundreds of subsidence investigations and subsurface stabilization projects performed primarily for the insurance industry. Forensic investigations and expert witness testimony. Expert consulting services to the US Environmental Protection Agency and the US Department of Justice (DOJ) for phosphate mining sites across the US since 2008.

Specific Projects:

Geotechnical Engineer-of-Record, Bluewater Industries/SDI Aggregates Seepage Cutoff Wall Project, Florida City, Florida (2018-2020)

Completed the engineering design, construction plans and specifications for a Soil-Bentonite Seepage Barrier (SBSB) constructed to prevent the westward migration of groundwater with high chloride content under the permitted mining of the SDI Quarry. Duties included Quality Assurance inspection and testing during construction and completion of the As-Built drawings to be used to close the permit.

Geotechnical Project Manager, Southern Wine and Spirits (SWS) Warehouse Expansion Project, Lakeland Florida (2014-2016)

Geotechnical site investigation and construction monitoring, including threshold inspection, for a proposed 440,000 sf expansion to an existing warehouse facility in

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Lakeland, Florida. Field investigation included test pits, GPR, ERI, SPT Borings and muck probing to characterize the subsurface site conditions. The expansion included new parking areas as well as the design and construction of a rehabilitation of an existing rigid pavement system in great need of repair. The significant loading from storage of very high state-of-the-art rack system and associated tight settlement tolerance resulted in a need for soil improvement including both surcharging and vibro-replacement stone columns. The connection of a new, heavily-loaded, warehouse directly connected with the same finish floor elevation as an existing warehouse that had been in use for years added challenges and utilized underpinning to prevent damage to the existing facility and differential settlement between the buildings. High water table along with poorly draining subgrade soils and heavy truck loading required extensive underdrains and a very robust free-draining rigid pavement section. Geosynthetics were used for the poorer subgrade conditions. Challenges during construction associated with earthwork, foundation and pavement subgrade preparation activities, along with high volumes of concrete cylinders and beams, plus the added duties of anchor bolt and roof connection pull-out testing made this a unique and challenging project.

Geotechnical Consultant, Peace River Regional Reservoir Expansion Project, Desoto County, Florida (2006-2007) Provided geotechnical related design review and consulting services to permitting agencies relating to an ERP application for an earthen dam and reservoir expansion project.

Geotechnical Engineer, Herbert Hoover Dike, Major Rehabilitation and Repair Project, Reach 1A Construction and Design Support Services, Port Mayacca, Florida (2006-2007)

Provided Quality Assurance consultation and inspection services to support USACE related to soil-cement-bentonite cutoff wall and other construction activities. Significant role in the identification, investigation, and evaluation of various difficulties encountered during cutoff wall construction.

Geotechnical Project Manager, Lake Rousseau Dam, Inglis, Florida (2000-2007)

Ongoing data collection, review, and summary reporting of piezometer and seepage flow data. Geotechnical investigation including soil borings, coring, piezometers and geophysical studies of seepage beneath an earth fill embankment dam approximately 2,000 feet long and 25 feet high. Extensive use of geophysical exploration including GPR, seismic reflection, seismic refraction, electrical resistivity, self-potential and sub-bottom profiling. Included review of historical and new piezometric data and the development of an instrumentation monitoring program. Dye testing was also utilized to confirm one source of seepage from within the reservoir crossing. Development of an Emergency Action Plan consistent with federal guidelines.

Geotechnical Project Manager, Cross-Florida Barge Canal, Flood Protection Levee, Inglis, Florida (2001-2004) Geotechnical investigation, design and construction recommendations for a flood protection levee along the CFBC and associated mitigation requirements. Included preparation of plans and specifications for construction. Additional, work included subsequent alternative design of steepened embankment and retaining wall systems to prevent any environmental impacts. Preparation of construction plans, specifications, permitting, construction oversight and inspection, and project closeout.

Geotechnical Project Manager, Hillsborough River Reservoir Dam Instrumentation Monitoring Program, Tampa, Florida (1999- 2006)

Ongoing data collection, review, and summary reporting of piezometer and seepage flow data.

Geotechnical Project Manager, Gypsum Storage Facility, Pascagoula, Mississippi (1998-1999)

Managed the geotechnical aspect of earthworks construction, which included dike construction over soft subgrade, over 12,000 LF of 18 feet deep slurry wall, instrumentation and various erosion control measures. Utilized 43,000 square yards of biaxial geogrid and 14,000 square yards of MiraMat erosion protection products. Duties also included embankment stability analyses.