



Lake County | **NORTH LAKE
TRAIL PHASE 3 PD&E
STUDY** (RSQ 22-901)

September 29, 2021



4 | Subcontractors



HDR is an architectural, engineering, planning and consulting firm that excels at helping clients to manage complex projects and make sound decisions. As an integrated firm, HDR provides a total spectrum of services for their clients. The staff of professionals represents hundreds of disciplines and partner on blended teams nationwide to provide solutions beyond the scope of traditional A/E/C firms.

HDR's operating philosophy is to be an expertise-driven national firm that delivers tailored solutions through a strong local presence. HDR's ability to draw upon firm-wide resources and expertise is a great strength in meeting and exceeding your expectations.

HDR's expertise in transportation, public-private partnerships, economics and finance, program management and design-build delivery systems allow clients more options to manage their projects and to maximize their budgets. HDR's transportation professionals constantly evaluate industry trends, state and federal programs, management methods, and delivery system models to help clients make the most of their budgets.

History and Size

- Founded in 1917
- Over 10,000 employee-owners
- More than 225 locations worldwide
- Full-service, multidisciplinary staff

Assigned Staff

Jeff Arms, PE, AICP - Corridor Analysis

Mark Suarez, PE - Corridor Analysis

Tyler Valila, PE - Corridor Analysis

James Krzeminski, PE - Traffic and Bike/Ped Safety

Matthew Wiesenfeld, PE - Traffic and Bike/Ped Safety

Aubyn Bell, AICP - Sociocultural Effects

Victor Muchuruza, PE - NEPA Documentation

Michelle Brennan, PE - Public Involvement, Team Leader

Teresa Donaldson, PE - Public Involvement



HDR, INC.

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Primary Contact

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Environmental Science Associates (ESA) is a California-based environmental consulting and planning firm committed to the principles of sustainability. We bring more than 50 years of experience in all aspects of project planning, environmental assessment, natural resource management and regulatory compliance. In Florida, ESA has 30 years of experience in the transportation industry, and has expertise in aviation, transit, rail, port and all facets of surface transportation; we serve Florida Department of Transportation statewide along with many airports, ports, counties and municipalities. With Florida offices in Tampa, Orlando, Sarasota, Delray Beach, and Pensacola, ESA's experienced professionals have provided a variety of environmental consulting services including but not limited to:

- Environmental Permitting and Mitigation;
- Seagrass Studies;
- Wetland and Wildlife Studies;
- Threatened and Endangered (T&E) Species Surveys;
- Noise Studies;
- Geographic Information Systems (GIS)/Habitat Mapping and Analysis;
- Land Use/Watershed Planning and Management;
- Comprehensive Ecological Assessments;
- NEPA Alternatives Analysis;
- Impact Analysis;
- Construction Inspection and Monitoring;
- Landscape Inspection and Vegetation Management;
- Stormwater Management, and;
- National Pollutant Discharge Elimination Systems (NPDES) Coordination.

Our experience includes many planning documents, and PD&E studies, along with environmental support for design, design-build, construction and maintenance projects. For PD&E studies, our scientists can complete the following study components, along with the related reports: wetlands, protected species, essential fish habitat, water quality, Section 4(f), noise, air, farmlands, and contamination screening evaluation. In addition, we have served as the technical writers for the environmental document compilation for Categorical Exclusion, EA/FONSI, and EIS levels of documentation. For design projects, we routinely lead the permitting efforts, including ERP, Section 404, sovereign submerged lands coordination and USCG Bridge Permits, along with wildlife agency coordination (USFWS, NMFS and FFWCC). In the construction arena, we have supported projects in the areas of wetlands, protected species, water quality, permit compliance, and landscape inspection; we have also supported storm-related emergency contracts.

Assigned Staff

Sandy Scheda - Environmental Analysis, Team Leader

Tori Kuba - Natural Resources Evaluation



ENVIRONMENTAL SCIENCE ASSOCIATES

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Florida Bridge and Transportation, Inc. (FBT) specializes in the design of transportation related structures. The people at FBT have designed over 200 bridges. Our design experience includes all types of bridges ranging from low level water crossings to long span bridges over interstate routes. A significant portion of our projects include serving as a Specialty Engineer working directly for contractors. Our traditional design projects include bridge replacements, widenings, new construction and repair projects. We have designed many miscellaneous structures including sheet pile walls, retaining walls, box culverts, bridge barrier retrofits, overhead sign structures and signal structures.

We have performed design services for all FDOT Districts including Florida's Turnpike Enterprise (FTE). FBT has provided services for traditional design-bid-build projects and for design-build projects. We often work directly for contractors as a Specialty Engineer, so we are very familiar with constructability issues including construction methods and equipment sizes. We often work with contractors to redesign bridges to provide a Cost Saving Initiative (Value Engineering Change Proposal).

In addition to designing transportation related structures, we have experience designing buildings, land development related structures such as gazebos and trellis structures, brick screen walls around subdivisions, and miscellaneous aesthetic structures for landscape/streetscape projects. FBT has experience designing with all types of materials including concrete, steel, aluminum, stainless steel, light gage cold formed steel, timber and masonry. Each material type behaves differently and has unique design requirements. This cross-code experience is very beneficial for design structures that are out of the ordinary. Being exposed to all of the different codes and working directly for contractors gives FBT a unique perspective as they approach design projects.

FBT recently completed design for South Lake Trail Segment 4 in Lake County for FDOT District 5. South Lake Trail Segment 4 involved five pedestrian structures including cattle crossings using Florida Slab Beams, a tunnel, and a pedestrian bridge over SR 50. FBT received the 2021 FTBA Best In Construction award for bridge design on Wekiva Parkway Section 3A/3B in Mount Dora.

Assigned Staff

Michael Hebert, PE - Structures

Juan Valenzuela, PE - Structures



FLORIDA BRIDGE AND TRANSPORTATION, INC.

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Global-5, Inc., full-service public involvement firm with more than 25 years of award-winning experience and exceeding client expectations. Global-5's additional areas of expertise include media relations, marketing, video production, and training firm. The company is an FDOT SBE-certified, woman-owned small business.

Global-5's public involvement and engagement experience includes roadway feasibility, design, and construction projects throughout District 5 and the State of Florida. Global-5 has managed all public involvement efforts for the I-4 Ultimate construction and I-4 Beyond the Ultimate design and construction projects. Global-5 also managed public involvement efforts for Florida's M-CORES predesign phase and DB Civil's Tiny Road construction in Orange County. FDOT continues to rely on Global-5 to work on its many of its high-profile projects because of our exceptional results, existing relationships with community partners and stakeholders, and a thorough understanding of FDOT's processes and preferences — including value engineering and FDOT's Public Involvement & Information Handbook.

Assigned Staff

Austin Vaughn - Public Involvement

David Parks - Public Involvement

Chris Patton - Public Involvement



GLOBAL-5, INC.

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4 | SUBCONTRACTORS

I.F. ROOKS & ASSOCIATES, INC.

Celebrating 53 years, I.F. Rooks & Associates is a full-service geospatial firm, serving clients throughout the Southeastern United States, providing a full suite of geospatial services including Low Altitude Photogrammetry and Aerial LiDAR.

IFR is an FDOT Mapping Firm and we offer an unmatched combination of experience, technical capability and in-depth knowledge of the District's need for, and utilization of, highly accurate aerial imagery and photogrammetry.

IFR is pre-qualified by the FDOT in the 8.3 Workgroup – Photogrammetry and have completed mapping projects in every District in the State.

With a staff of 23 which includes two PSM's, three CP's, one flight crew and ten photogrammetric technicians available to concentrate their efforts on this project.

Services

- Aerial Photography
- Airborne GPS
- Fixed Wing & Low-Altitude Helicopter Mapping
- LiDAR
- Topographic & Planimetric Mapping
- Orthophotography
- Mosaics

Aerial Equipment

- Cessna Turbo TU-206G Aircraft
- Hughes 500 Helicopter
- Hexagon RCD30 Digital Camera with Airborne GPS/IMU
- Galaxy T1000 LiDAR Sensor (Teledyne Optech)
- PhaseOne Digital Sensor

Assigned Staff

Ike Rooks, PSM - Aerial Photography

Dave McKay, PSM - Aerial Photography



I.F. ROOKS & ASSOCIATES, INC.

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NADIC ENGINEERING SERVICES, INC. (NADIC) is a client-driven engineering firm providing geotechnical, geo-environmental, and construction materials testing and inspection services. Our DEDICATED team strives to be the most respected firm providing consulting, design, and construction services through technical excellence, innovative solutions, and devoted client service. NADIC has established strong policies on quality assurance and quality control for each project. We have assembled a highly qualified and experienced professional; technical and administrative staff work together to satisfy the needs of our clients. Each project presents unique opportunities through its location, types of engineering required, and economic importance to our clients. NADIC was founded in 2001, with a commitment to provide superior service to our clients. Since its founding (September 2001), NADIC has performed over 1,000 projects throughout Florida.

NADIC is a certified Small Business Enterprise (SBE) and Disadvantaged Business Enterprise (DBE) with the Florida Department of Transportation. NADIC is also certified MWBE with the State of Florida, Orange County, Florida, City of Orlando, Orlando International Airport, Miami-Dade County Public Schools, Central Florida Expressway Authority (CFX) and South Florida Water Management District (SFWMD). NADIC is further certified as a CBE and Micro/SBE with Miami-Dade County, Florida. NADIC is currently serving clients from three locations: Orlando, Kissimmee, and Miami.

NADIC provides the following services:

- **Geotechnical Engineering:** NADIC helps define the construction and long-term performance risk associated with subsurface conditions for all types of wastewater plants, transportation systems, buildings, airport facilities, dams, landfills, and other civil projects. NADIC has in-house three (3) drill rigs and one (1) pavement coring drill.
- **Geo-environmental Engineering:** For a site suspected to be contaminated, NADIC aptly characterizes the physical features of the site and of existing chemical components; assesses the existing risk; and performs an engineering evaluation of appropriate corrective measures required to reduce risk and meet regulatory compliance.
- **Construction Material Testing and Inspection:** NADIC offers material engineering testing and inspection services applicable to the governmental, construction and manufacturing industries. Field testing includes verification of material standards and quality, construction quality control and reconstruction quality assurance.

Assigned Staff

Godwin Nnadi, Ph.D, PE - Geotechnical



NADIC ENGINEERING SERVICES, INC.

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SEARCH is the largest archaeology and cultural resources management company in the United States, and SEARCH20 is the largest underwater archaeology program. SEARCH specializes in the full spectrum of cultural services related to Archaeology, Maritime Archaeology, Architectural History, Archives and Museum Services, and Media Production. Since 1993, SEARCH has completed more than 3,700 projects across 44 US States and 37 countries, spanning five continents and three oceans. Commercial and government customers in the Energy & Power, Defense, Federal, Transportation, and Development markets have selected SEARCH for more than \$250M in Prime contracts and \$2.3B in Team contracts. SEARCH's staff of nearly 170 employees work from over 50 facilities to conduct 300 projects per year and deploy 20 or more field teams per week.

SEARCH has unmatched experience in completing transportation projects according to federal and state guidelines, including Sections 106 and 110 of the National Historic Preservation Act of 1966, as amended, the Section 303/Section 4(f) Evaluation Process (USDOT Act of 1966), and Chapter 267, Florida Statutes. SEARCH offers our transportation clients 24 years of district-wide contracting experience including:

- 14 FDOT district-wide contracts (SEARCH as Prime)
- 64 FDOT district-wide contracts (SEARCH as Subconsultant)

SEARCH holds district-wide cultural resource services contracts with the Florida Department of Transportation (FDOT) District 2 (Northeast Florida) and District 6 (South Florida). SEARCH is also a member of one team providing interstate program management to District 1, one team providing District 2 with ETDM and environmental support services, four teams providing District 3 with district-wide PD&E and environmental assistance services, two teams providing PD&E and ETDM support to District 4 (Southeast Florida), 16 teams providing engineering and environmental support to District 5, three teams providing PD&E support to District 7 (East Central Florida), and one team providing environmental review and analysis support to the FDOT State Office of Environmental Management Office (OEM). SEARCH also provides cultural resource services to Florida's Turnpike Enterprise through the General Engineering Consultant contract.

Assigned Staff

Mikel Travisano, MS - Cultural Resources Evaluation

Angela Matusik, MA - Cultural Resources Evaluation



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