Freese and Nichols, Inc. (FNI) is excited to expand our professional consulting services to support communities in the great state of North Carolina. After years of research and analysis, we opened our office at the NCSU Centennial Campus in Raleigh as part of a strategic growth initiative to better serve our clients and attract and retain the best talent in the nation. North Carolina’s Research Triangle area was selected because of its synergies with our areas of strength, as well as the fact that its business and local culture complement our own. We are committed to the greater Raleigh-Durham area and will pursue deliberate growth with a focus on client service and community investment.

For more than 120 years, FNI has built its practice on a strong foundation of client service and a commitment to project excellence. Our outstanding reputation for quality work results in nearly 90 percent of our work coming from repeat clients throughout the southern parts of the United States. Our primary focus remains being a trusted advisor for our clients.

As the Division Manager chosen to lead the operations in North Carolina, I am eager to carry on the fine tradition of providing the quality service and trusted advice for which FNI is known. Your home is now my home, and I look forward to becoming an integral part of your community.

Here, you will find information about our services, qualifications and the many strengths we bring to each endeavor. I look forward to working with you in the days ahead. In the meantime, please feel free to contact me with any comments or questions at 919-582-5860.

Sincerely,

Mike Wayts, P.E., CFM
Vice President/Principal
Mike.Wayts@freese.com

Since our founding, FNI has specialized in municipality work. We have developed successful public-private partnerships with more than 200 municipalities, which trust us as stewards of their capital building expenditures and operating budgets. By limiting our private work, we are also able to avoid potential conflicts of interest with our municipal clients.
ABOUT FRIESE AND NICHOLS, INC.

FNI traces its roots back to 1894, when founder John Hawley became one of Texas’ first independent water and sewer engineers. He soon invited Simon Freese and Marvin Nichols to join his firm. From those beginnings, FNI has grown to offices in Texas and North Carolina, serving municipalities throughout southern parts of the United States. Our staff of 500-plus talented and accomplished employees is dedicated to one vision: Be the firm of choice for clients and employees.

FNI is an engineering and planning firm with deep roots across Texas. We recognized that many of the things that make Texas a great place to do business are also present in the Southeast United States, so we decided to branch out by putting our experience to work in North Carolina. Texas and North Carolina share qualifications-based selection that enables us to perform the highest-quality work; strong council-manager governments that provide stability, enabling us to plan and implement long-term improvements; and similar core values: community, integrity and state pride.

FNI’s history in Texas has given us the experience to deal with the challenges the southeast region is encountering today. Over the past 20 years, Texas’ population has grown 46 percent—an equivalent of 9 million people. FNI earned a reputation in Texas for helping cities develop solutions to accommodate this growth, from preventing flooding to expanding treatment plants to planning traffic patterns. Our team can provide the same level of service to help ease the growing pains in the southeast.

FNI is a full-service professional consulting firm and the first and only engineering/architecture firm to receive the Malcolm Baldrige National Quality Award. FNI provides engineering, architecture, environmental science, planning, energy and program management services. Our services include:

- Architecture
- Construction Services
- Environmental Permitting
- Facility Planning
- Funding/Grant Applications
- Growth Management and Development
- Landscape Architecture
- Levee and Dam Evaluations and Design
- Mechanical, Electrical and Plumbing Engineering
- Oil and Gas Engineering
- Park and Recreation Planning and Design
- Program Management
- Stormwater Master Planning and Design
- Structural Engineering
- Transmission/Substation Engineering
- Transportation/Infrastructure Planning and Design
- Urban Planning and Design
- Water and Wastewater Master Planning and Design
- Water and Wastewater Treatment
- Water Resources Planning and Facility Design

During the 2010-11 drought, Colorado River Municipal Water District faced severe water shortages. The 30 MGD Emergency Ward County Water Supply Project was designed and constructed under an accelerated schedule. FNI provided design and construction phase services for Ward County Water Transmission System. The project was completed in under 18 months, $25 million under budget and went into operation two weeks ahead of schedule.
FNI has assisted many municipalities with all aspects of a stormwater program. This includes citywide, basin and neighborhood planning, design, development management, regulatory compliance, and funding assistance. The FNI stormwater team consists of professionals who work almost exclusively on stormwater projects for municipalities. We seldom serve the private development community. This is a seasoned team that works on municipal stormwater projects every day without any development conflict of interests. We know how to use the latest modeling software that will help you make fully informed decisions and save you money on construction. Our experienced stormwater staff will provide you constructible, sustainable alternatives that optimize your budgets for construction, operations and maintenance.

Strong Public Involvement

Gaining public support is a critical piece of almost every stormwater project due to the visibility of most projects to the public. FNI’s Charles Archer leads the public involvement portion of your projects. His community relations background and decades of public engagement experience as the Halifax County Manager, and his lobbying efforts with the League of Municipalities are strengths of our team that will prove invaluable for your projects.

Funding Assistance

FNI customizes our approach to meet the unique needs of each client. Our team members regularly work together across disciplines, giving our clients the benefit of total service integration.

FNI provides the following key services within our practice of Stormwater Management:

**Design**
- Storm sewer and drainage systems
- Open-channel flood and erosion-control improvements
- Regional detention/retention ponds
- Water-quality ponds
- Stream stabilization
- Bioswales
- Wetland restoration and creation
- Pressure sewers and tunnels
- Pump stations
- Levees and dams

**Development Management**
- Low-Impact Development (LID) policy and technical criteria development
- Preparing and planning for future growth and developments
- Enforcement of development through stormwater management reviews
- Developing stormwater drainage criteria and ordinances

**Funding Assistance**
- State and federal grant programs
- Stormwater utility fees

**Studies/CIP Development**
- FEMA Flood Study updates
- Fluvial geomorphology assessments
- Citywide, watershed or neighborhood CIP studies
  - Identify, quantify and prioritize needs
  - Develop regional approaches
  - Better information allowing better decisions

**Regulatory Compliance**
- Phase I and Phase II NPDES
- FEMA mapping studies
- Dam-safety regulations

**Professional Development**
- Best practices for municipal floodplain management
- Stormwater software selection and training
- Brown bag training for addressing contemporary stormwater issues
- Professional Development Hours (PDHs) through Freese and Nichols University

**STORMWATER**

FNI customizes our approach to meet the unique needs of each client. Our team members regularly work together across disciplines, giving our clients the benefit of total service integration.
FNI’s Environmental Science and Remediation Group has provided environmental services to our clients for more than 35 years. Our team includes more than 25 staff members and is composed of biologists, ecologists, geologists, fluvial geomorphologists, GIS analysts, planners and economists. Our firm’s diverse service offerings enable us to deliver unique solutions while still meeting the demands of a fast-paced project schedule. This means our staff can provide high quality results no matter the size, scale or scope of the project.

Regulatory Agency Coordination

FNI has developed strong relationships with regulatory agencies as a result of our long history of project experience. We routinely work with agencies such as the U.S. Army Corps of Engineers, N.C. Department of Environment and Natural Resources, N.C. Wildlife Resources Commission, U.S. Environmental Protection Agency, Federal Energy Regulatory Commission, N.C. Department of Transportation, U.S. Fish and Wildlife Service, and other state and federal agencies.

Our experience has allowed us to develop an understanding of agency requirements and preferences for permit applications and other document submissions. This understanding enables us to work on behalf of our clients to obtain permits or document approval with minimal agency comments.

Environmental Science

- USACE Section 404/10 and Major/Minor 408 permitting and related services
- Endangered and threatened species studies and surveys
- Environmental impact assessments and National Environmental Policy Act documentation
- Construction permitting and permit compliance with municipalities and other public entities
- Expert testimony for environmental issues at the state and federal levels
- Natural resource management (tree surveys, habitat surveys, species surveys, etc.)
- Stream condition assessments and mitigation design
- GIS development and data analysis
- Erosion control plans
- Stormwater pollution prevention planning, permitting and management
- Watershed management plans
- Third-party environmental impact statements
- Jurisdictional determination of waters of the U.S.
- Wetland delineations

Practical Solutions Come Naturally

FNI has earned the reputation for providing clients with practical solutions to complex environmental regulations. Our team can quickly assess environmental challenges and regulatory requirements to identify strategies that often enable our client to avoid costly and time-consuming regulatory obstacles.
FNI has served as the trusted advisor for water-related issues since founder John Hawley became Texas’ first independent water and sewer engineer in 1894. In the last five years, FNI has designed more than $1.5 billion in water transmission projects, with enough capacity to serve more than 17 million people. We have a wide background with these projects, having completed pipeline projects from 6-inch up to 108-inch in diameter and pump stations up to 425 MGD.

Representing the Best Interests of our Client
FNI uses a client-focused approach to water/wastewater utility projects. We have been the firm of choice for many clients on fast track and complex design projects. We have standardized the use of 3-D design and innovative approaches in completing these projects. In addition, FNI uses a value approach to design and construction phase services. The approach focuses upon initial capital cost, total life cycle cost, reliability, simple operations, local materials and construction practices, and fostering competition during the bidding phase. The approach allows each client to select the best overall approach to the system, rather than a standard cookbook approach that is not in the owner’s best interest.

Recognized Technical Excellence
FNI has adopted a culture of client service. We have put in place quality review processes, client surveys, executive client visits and training for our staff to be the very best at client service. This commitment has helped us be the only engineering/architecture firm to ever earn the national Malcolm Baldrige National Quality Award. As part of our Continuous Improvement (CI) process, FNI implemented our Technical Excellence Program (TEP). Staff members from across the company meet together on a regular basis to discuss changes in the industry, innovative techniques and lessons learned. The Water and Wastewater Utilities team has also implemented a new products committee, where promising new products are reviewed in great detail and potentially included as a standard product for our clients.

FNI offers integrated support services, which includes helping clients find project funding. To date, FNI has been instrumental in obtaining more than $450 million for clients’ water and wastewater projects.

Water/Wastewater Utilities
- Wastewater collection and conveyance
- Water storage tanks
- Pump stations
- Water/wastewater design

Water/Wastewater Master Planning
- Strategic planning
- Water/wastewater system modeling
- Capital Improvement Plan (CIP) prioritization
- Regulatory compliance review
- Operational assistance
- Pressure plane delineation
- Energy analysis optimization

Water Quality
- Groundwater rule planning
- Water quality modeling and assessments
- Unidirectional flushing programs
- Nitrification investigation
- Water age management
- Regulatory assistance
- Alternative disinfection strategies

Water Reclamation, Purification and Reuse
- Advanced water/wastewater treatment
- Treatment plant expansions and rehabilitation
- Membrane filtration and desalination
- Direct and indirect potable reuse applications
- Regulatory compliance
- Plant hydraulics and computational fluid dynamics
- Process and hydraulic modeling

Asset Management
- Geodatabase development
- Utility prioritization renewal program
- Renewal of water/wastewater facilities
- Risk-based management
- Infiltration/inflow studies
- Data integration services

Funding Assistance
- Impact fee programs
- Development agreements
- SRF project assistance
ASSET MANAGEMENT & GIS

Asset Management and Condition Assessment

With aging water and wastewater infrastructure and shrinking budgets, utilities across the nation are working proactively to prioritize system renewal with a risk-based approach. FNI helps clients act as stewards of their facilities and their budgets by providing fiscally responsible rehabilitation options.

FNI offers the full range of asset management and condition assessment services for water and wastewater systems from preliminary planning through construction services. System renewal consists of evaluating rehabilitation and replacement options to address potential problems associated with aging facilities. FNI uses a quantitative method based on condition and criticality to assess each system component and develop a prioritized Capital Improvement Plan (CIP) for renewal. The sustainable benefits of system assessment and rehabilitation are many, including power savings, leak reduction and increasing the life of an existing facility.

Geographic Information Systems Services

Because of our strong commitment to providing innovative approaches and practical results for our clients, FNI has developed a broad depth of Geographic Information Systems (GIS) expertise. The use of geospatial information technology is at the forefront of engineering projects. Spatial analysis and display of engineering GIS data allow for successful management of all critical project information.

We use GIS on projects ranging from reservoir delineation and hydrologic analysis, to environmental classifications and profiles, to database design, drainage analysis, surface modeling and GPS surveys.

GIS and Web Applications

FNI’s GIS staff creates custom GIS applications based on client needs. Our GIS professionals have a decade of experience in developing needs assessments, implementation plans, databases, Internet technologies, and system integration and architecture.

FNI develops GIS/Web applications using the ArcGIS Desktop suite, the ArcGIS Server suite and the ERDAS suite. Such applications use both desktop databases, such as Access, and Enterprise databases, such as SQL Server and Oracle. We also use Java®, ActiveX®, Visual Basic Script, Java Script, Visual Basic, C#, .Net, Microsoft IIS® and Silverlight®.

The Environmental Science Research Institute, Esri, is the global market leader in GIS. FNI has been a Silver Tier Partner in the Esri Partner Network since 2010.

FNI has also been a business partner with Cityworks, a GIS-centric asset management software, since 2010.

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WATER RESOURCES

FNI provides the following key services within our practice of Water Resources:

Dams and Hydraulic Structures
- Planning and permitting
- Studies and analyses
- Design and rehabilitation
- Instrumentation and monitoring
- Construction management and support
- Facility reviews and evaluation

Levees and Embankments
- Inspection and assessment
- Design and rehabilitation
- Geotechnical analysis
- FEMA levee compliance assessments
- Closure structures analysis and design
- Embankment armoring design
- Design flood and breach analysis
- Emergency action plan and operations plan development
- Risk analysis
- Siphon design
- Interior drainage system analysis and design
- Permitting

Water Conservation and Reuse
- Water audits
- Landscape irrigation design and auditing
- Water rate studies
- Water distribution system analysis

Water Supply Planning and Permitting
- Long-range water supply plans
- Water rights permitting
- Expert witness services
- Section 404 permit support
- Reservoir and system accounting plans
- Hydrologic studies
- Modeling
- State-required water conservation and drought plans
- Conservation studies
- Developing individual conservation programs
- Water/energy nexus
- Carbon footprint analysis
- Economic studies
- GIS analysis
- Environmental studies support

Water Stewardship for the 21st Century

FNI works with water providers to efficiently utilize existing sources and identify nontraditional water sources in a supply-limited environment. Two key tenets of the FNI philosophy are resource sustainability and stewardship, and we consider them in any endeavor we undertake for our clients. This approach, coupled with a commitment to quality service, has allowed us a successful history in water projects and the opportunity to play a key role in the development, conservation and reclamation of water supplies since our founding in 1894. These concepts are reinforced in FNI Water™.

FNI Water™ is an initiative that incorporates sustainability, the water/energy nexus, water efficiency, water conservation, conjunctive use of groundwater and surface water, brackish water, and water reuse. FNI Water™ is the framework for a process that helps our staff explore alternatives for sustainable water resources in the 21st century. Resource sustainability and stewardship are important to us and will be considered in any endeavor we undertake for our clients.

FNI Water™ focuses primarily on two aspects of sustainability: the natural environment (water and energy), and life cycle costs. We take a comprehensive, environmentally-responsible approach and implement best practices through every step of a water supply project, from planning to operations, to maximize the quantity and quality of water, protect ecosystem functions, minimize energy use, and minimize costs.
How FNI Helps You

From the small town with only one traffic signal to the large city with heavy traffic congestion, we are all affected by the impacts of transportation and traffic management. FNI has helped a wide range of clients to mitigate these impacts for more than a century, and we recognize the importance of offering quality transportation services that increase the quality of life for project stakeholders.

What makes FNI’s approach to transportation solutions unique is our comprehensive approach to integrating planning, design and program management into all our projects. We understand that the primary goal of transportation solutions is to connect people with safe and efficient transportation improvements encompassing all modes of transportation in a Complete Streets approach that improves quality of life and promotes economic development.

Key Aspects of Transportation Planning and Design

FNI believes transportation systems should provide safe and efficient movement using a comprehensive network of streets that complement land uses. In addition to handling current and future congestion, a region’s transportation systems should be both livable and sustainable. We have extensive experience developing CIP programs, including project planning and development, prioritization of projects and development of a bond program.

Our project leaders are experienced in a wide variety of transportation projects, including traffic studies, intersection improvements, urban design streetscapes, arterial thoroughfares improvements and highway interchanges. FNI has professionals dedicated to construction management and program management, providing scheduling, cost estimating and constructability quality control reviews that improve the quality of our design deliverables to our clients. Each component of a transportation project can present its own unique challenges, and our transportation team is prepared to address your challenges with a comprehensive approach.
FNI's mission is to develop unique planning solutions that are created through a deliberate, structured and inclusive planning process. In support of this mission, the FNI planning team adheres to the following philosophical guidelines in its municipal planning endeavors:

Listen to the Public – We strive to create planning products that integrate public participation to the fullest extent possible, using the latest technologies and methods to garner such participation.

Create Individualized Products – We recognize the importance of preparing planning products that reflect the needs and desires of each individual community that we serve. Each community is a distinct and different entity that deserves specific attention and unique solutions that respond to that community’s particular issues, challenges and goals.

Use Traditional and Innovative Approaches – We also strive to create planning products that use a complementary mix of traditional and innovative planning concepts to create viable, realistic and functional solutions.

Practical Implementation – Our plans achieve measurable progress through the prioritization of strategies that link plan elements to implementation actions. Our strategies are fiscally responsive so that communities can provide for adequate facilities and long-term growth.

Each project is unique. FNI works with the community to provide the right services for the project. Our planners work diligently to improve the welfare of people and their communities by creating plans that provide efficient, practical and attractive solutions. FNI is also aware that the client, stakeholders and citizens should have planned communities that enrich their lives.

We realize that good planning offers choices to our clients and their communities. Through our planning process, we work with elected and appointed officials, stakeholders and citizens in order to develop recommendations and create communities that have value for present and future generations.

There are no two plans or studies that are alike; we work with each client through analysis and data gathering to identify issues and develop goals. These goals help to form a vision which becomes a road map toward strategies to help implement the plan. Whether it is a comprehensive plan, special area plan, streetscape design, master plan, policy recommendation or capital improvement plan, FNI’s expert services can help with client needs.

FNI provides the following key services within our practice of Urban Planning + Design:

**Urban Planning**
- Comprehensive planning
- Transportation planning
- Parks and trails
- Sustainable/LEED®-certified design

**Implementation and Regulations**
- Zoning and subdivision ordinances
- Unified development codes
- Form-based codes
- Impact fee systems
- Site design
- Urban design
- Capital improvement and program management

**Special Area Planning**
- Streetscapes
- Downtown redevelopment
- Bridge and roadway design

**Campus Planning**
- Campus master plans
- Strategic and academic planning

**Other Services**
- Public involvement/consensus building
- Graphic rendering/3-D visualization
- GIS applications/services
- Expert testimony

**FNI’s award-winning urban planning team has provided services to more than 150 cities in the U.S. Our professionals act as trusted advisors, guiding clients through every project stage — from vision to implementation — to develop sustainable places that meet their needs.**
FACILITIES

FNI provides the following key services within our Facilities practice:

### Architecture
- Landscape architecture
- Planning
- Feasibility studies
- Building survey and analysis
- Project cost analysis
- Cost estimating services
- Facility master planning
- Full design services
- Space planning
- Interior design services
- Life safety, fire and building code analysis
- Handicapped accessibility studies
- Computer-aided facility management
- Program management
- Sustainable design
- Environmental graphics
- Signage and wayfinding

### Master Planning
- Existing condition assessments
- Utility and infrastructure
- Open space opportunities
- Circulation
- Future development
- Space utilization
- Deferred maintenance schedules
- Economic impact models
- Environmental permitting

### MEP Engineering
- Heating, ventilation and air conditioning
- Thermal energy generation, storage and distribution
- Facilities automation
- Heat recovery
- Energy audits
- Energy master planning
- Commissioning
- Primary electrical distribution
- Medium voltage distribution
- High voltage substations
- Emergency power generation

(MEP Engineering cont.)
- Fire alarm
- Lighting
- Power systems studies
- Short circuit and protective device coordination studies
- Arc flash analysis
- Load flow studies
- Motor starting studies
- Domestic, laboratory and process plumbing
- Fire protection
- Fuel storage, distribution and dispensing
- Irrigation/water management
- Irrigation audits and evaluations
- Irrigation system master planning

### Structural Engineering
- Building design
- Foundation design
- Structural steel design
- Slab analysis and design
- Timber design
- Reinforced concrete design
- Building rehab/strengthening
- Investigation of distressed structures
- Vibration/dynamic analysis
- Pre-stressed/post-tensioned concrete structural systems
- Seismic engineering
- Bridge design

Public and private institutions, corporations, and governmental agencies have come to rely on FNI for architecture, master planning, mechanical, electrical and plumbing (MEP) engineering, and structural engineering. With a professional staff of architects, engineers, planners, landscape architects and construction specialists who share a common vision for advancing facility design, we respond with solutions that are both flexible and adaptable for today and into the future. We focus on markets ranging from academic and healthcare institutions, municipal and county governments, water districts and river authorities, and federal and state agencies. We have been consistently ranked in Engineering News-Record’s (ENR) Top 500 Design Firms in most of our market and service offerings.

We believe buildings play a vital role in our communities. They are where we learn, teach, research, work and often times collaborate. FNI creates spaces that are durable and built to last.
FNI has provided program management services for clients since the mid-1890s. We provide integrated program management to help our clients implement a complex series of related projects to meet their mission and objectives.

We have successfully managed and completed many municipal Capital Improvement Plans (CIPs) as well as programs in the energy and water/wastewater markets. We strive to serve the unique needs of each client and provide technical assistance for each program’s success.

Effective programs provide clients many benefits, including:
- organized effort for meeting overall needs and goals
- plan for future growth and needs
- ease in leveraging funding
- expedited project timeline
- streamlined development of standards and processes
- extension of client’s staff and resources

FNI provides program management services for a variety of project types, including roadways and bridges, pipelines, reservoirs, oil and gas, aviation, facilities and more. We serve a range of clients with these services, such as municipalities, counties, water districts and river authorities, private clients, and energy companies.
FNI has more than a century of experience providing construction management and related services to public sector clients. Being part of a firm that provides architectural and engineering services, and having worked for decades as an extension of the Owner’s staff, we understand the unique dynamics of working in a team environment with the Owner, designer and contractor. Our leadership approach recognizes the need for personal accountability to add value to the project, and our technical approach is based on using today’s technology to enhance communication and collaboration while staying with tried and true construction management principles.

FNI is ranked among Engineering News-Record’s (ENR) Top 100 Construction Management firms. We have more than 40 employees dedicated to construction management and inspection of FNI-designed and third-party-designed projects. Our construction management staff can provide services throughout the life of a project from design, through bid and construction, to post-construction. Our goal is to deliver quality projects on time and within budget while minimizing the issues that are inherent to the construction process.

FNI is delivering enhanced services to clients through the use of paperless technology. We use tablets with cloud-based software, such as e-Builder Enterprise™, to efficiently and reliably access construction plans and specifications, submittals, and other information needed while in the field. This enhanced accessibility to all project elements streamlines communication and expedites the issue resolution process, making us more productive and more responsive to the needs of the project team.
Our energy clients face many challenges as they explore and develop new energy sources in an environment of complex regulations, global competition and challenging economic conditions. FNI supports our clients’ efforts with a flexible, client-specific approach with custom-tailored services designed to meet the unique needs of each client. Some clients need a complete range of services to take a project from planning to start-up, while others need experienced staff to augment their own capabilities on a short-term basis. Whatever their needs, we can help our clients with quality, cost-effective solutions that help them achieve their goals.

**Compressed Natural Gas**
- Economic viability analysis
- Vehicle analysis
- Feasibility analysis and implementation plan
- Station design and engineering
- Procurement
- Station construction
- Construction phase services
- Ongoing operations and maintenance

**Oil and Gas**
- Economic and feasibility studies
- Project development
- Crude oil and natural gas facilities engineering
- Pipeline engineering
- Treatment plant design and operations
- Process and facility services
- Program/project management
- Construction phase assistance
- Water management services
- Due diligence investigations
- Regulatory approvals and permit acquisition

**Electrical**
- Primary electrical distribution
- Medium-voltage motor control and distribution
- Feasibility studies
- System startup
- Short-circuit, arc flash hazard and load-flow analyses
- Relay coordination
- Substation design
- Building facilities design
- Facilities condition assessment
- Emergency generators, backup power and cogeneration
- Electrical equipment test witnessing
- Energy audits and analysis and predominant-use utility studies
- SCADA, controls, instrumentation, distribution, and communications
- Telecommunication and computer rooms
- Lighting

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**Compressed Natural Gas (CNG) Services**
FNI has teamed with Dallas-based ZeitEnergy to develop CNG fueling stations in several regions across the United States. Natural gas is a cleaner-burning, domestically produced fuel with enormous potential as a motor vehicle fuel for transit, school buses, refuse trucks, service fleets and light duty commercial vehicles. The FNI/Zeit team can support clients’ development of CNG fueling projects from initial feasibility studies, through design, construction, start-up and ongoing maintenance. Likewise, the FNI/Zeit team has the expertise to implement CNG projects using any one of a large variety of project delivery and funding configurations.

**Oil and Gas Services**
Our quest to better serve oil and gas clients led us to merge with Nicol & Associates, Inc. in 2011. Nicol & Associates’ expertise in oil and gas facilities design complements FNI’s traditional engineering services and enables us to provide a full range of services to support oil and gas developers and midstream companies across the nation. Since 2011, our Energy Division has grown to more than 50 engineers and support staff.
FNI’s Funding Team is dedicated and experienced in helping our clients navigate the grant and loan process to obtain funding for their community, infrastructure and building projects. The process of identifying, selecting and applying for the appropriate funding can often be challenging and time-consuming. We have established relationships with funding agencies at the local, regional, state and federal levels of government and stay in contact with these agencies to provide up-to-date funding opportunities to our clients.

### Funding Services
- Funding identification/selection
- Application preparation/coordination
- Cost estimates
- Public meetings/hearings/notices
- Communication with funding agencies
- Management of projects using grants/loans
- Preparation of required documentation for projects funded by grants/loans
- Funding seminars

### Types of Funding FNI Pursues
- Feasibility study grants
- Planning grants and loans
- Design grants and loans
- Construction grants and loans
- Public-private partnerships (P3s)
- Performance contracting
- Traditional bond market loans
- Alternative project delivery
- Rate studies
- Impact fees
- Utility fees
- Incentive programs

FNI has a long history of working with grants and loans, both in obtaining the funds and in managing projects that use these funds. In addition, we are experienced in developing and updating rate studies, impact fees and a variety of utility fees. FNI is knowledgeable and involved with other forms of financing, including public-private partnerships (P3s), performance contracting, traditional bond markets and alternative project delivery methods.

Our team of experienced specialists has secured millions of dollars in funding for client projects. We work to provide the funding information and support our clients need to bring their projects to fruition.

### Project Highlight
In November 2008, voters in Parker County, Texas, approved implementation of an $80 million Transportation Bond Program consisting of more than 30 transportation projects including safety, railroad crossing and intersection improvements; road widenings; new roads and bridges; and drainage improvements. FNI assisted Parker County in the planning phase of the program prior to the election and now serves as the program manager for the project, managing design and construction of all projects.

FNI was also instrumental in attracting additional state and federal funding to this program by working with regional, state and federal officials. Additional funding for the Program has come from the Texas Department of Transportation, the North Texas Council of Governments, and municipalities within Parker County.

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Malcolm Baldrige

In November 2010, FNI was named a recipient of the Malcolm Baldrige National Quality Award, the first and only engineering/architecture firm to receive this honor. The award provides affirmation of our 15-year quality journey to develop FNI into a Baldrige-class firm.

The Baldrige award is the highest presidential honor given to U.S. organizations for performance excellence. It was established in 1987 to enhance the competitiveness of U.S. businesses in an ever-expanding, demanding global market. The Baldrige program promotes excellence in organizational performance, recognizes the achievements of U.S. organizations and publicizes successful performance strategies.

Baldrige by the Numbers

1,540 applicants through 2012
93 recipients through 2012
7 categories in Baldrige criteria
1 engineering/architecture firm received this honor: Freese and Nichols

Quality Control/Quality Assurance Program

Quality Control

Quality Control (QC) at FNI involves technical review of all project components to determine accuracy and readability of studies, verify design calculations and details, and check constructability of construction documents. FNI considers QC to be the ongoing responsibility of each team member, but formal QC reviews will be led by the project-specific QC/QA Manager at key milestones throughout each project. The goal of a QC review is to check for sound technical principles and accuracy. Most reviews are multidisciplinary, and those with construction adjuncts are also reviewed for constructability.

Quality Assurance

Quality Assurance (QA) at FNI is an overall project review to determine that an effective approach is taken for a project, confirm project objectives are carried out, detect conceptual problems early, and verify that coordination and the QC functions and reviews have been performed. The QC/QA Manager will take responsibility for administering the QA process by submitting the appropriate information and materials to a QA Leader, who will be assigned by FNI’s Office of the President and be responsible for conducting a formal QA review after each formal QC review.

Our QC/QA methodology is supported by our Internal Technical Excellence Program and rooted in a system of formal checklists, meticulous analysis, and planning, design and construction excellence to help produce quality deliverables for our clients.

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For more information, please contact:

Mike Wayts, P.E., CFM
Division Manager
Office: 919-582-5860
Mike.Wayts@freese.com

Charles Archer
Account Director
Office: 919-582-5861
Charles.Archer@freese.com

www.freese.com/northcarolina