

WATER & WASTEWATER FACILITY & INFRASTRUCTURE DESIGN

- Water Distribution
- Wastewater Collection
- Large Diameter Pipeline
- Water Treatment
- Wastewater Treatment
- Pumping Facilities
- Well Systems
- Reclaimed Systems
- Instrumentation, Control, SCADA
- System Rehabilitation (water/sewer/storm)
- Equalization and Storage Facilities

GRANTSMANSHIP & FUNDING ASSISTANCE

- Funding Agency Coordination
 - Community Development Block Grant (CDBG)
 - State Revolving Fund (SRF)
 - Clean Water Management Trust Fund (CWMTF)
 - Rural Center
- Davis-Bacon Compliance Reviews
- Preliminary Engineering Reports

PLANNING

- Land Development (Commercial/Residential)
- Capital Project Planning
- Powell Bill Mapping
- Sanitary Sewer Evaluation Survey (SSES) Projects
- Water/Wastewater Rehab
- GIS Integration, Mapping & Database Management for Utility Layers
- Water Modeling & System Analysis
- Web Accessible Project Database

LAND DEVELOPMENT / INSTITUTIONAL SITE ENGINEERING & FACILITY SUPPORT

- **Commercial/Residential**
 - Survey
 - Design
 - Grading Plans
 - Utility
 - Roadway
 - Stormwater
 - Erosion Control
 - Construction Contract Administration
- **Hydrology / Stormwater**
 - Planning/Design/Compliance
 - Stormwater Treatment
 - Stormwater Management
 - On-site Treatment System Inspections
 - Water Quality Enhancement
 - Flood Modeling and Routing
 - Biocell and Constructive Wetlands Facilities
 - FEMA Map Revisions

• **Green/Environmental**

- Wetland Mitigation Planning
- Parks and Recreation
- LEED

• **Educational Facilities**

- Preliminary Site Selection and Evaluation Studies
- Site Development Plans
- Access Road and Parking
- Traffic Planning
- Roadway Improvements
- Recreation Fields and Equipment

• **Transportation Systems**

- Street and Road Improvements
- Roadway Utility Conflict Coordination & Resolution Design
- Annual Paving and Resurfacing Contracts
- Roadway and Hydraulic Design
- Construction Management

SUBSURFACE UTILITY ENGINEERING (SUE)

- All four levels per ASCE specifications
- Vacuum Excavation
- Utility Coordination
 - Preliminary Review
 - Utility Impact Statements
 - Utility Relocation Recommendations and Owner Negotiations
 - Construction Conflict Resolution
 - Utility Relocation Plans

SURVEYING

- ALTA Surveys
- Boundary Surveys
- Route Location Surveys for Utilities and Roadways
- Easement Surveys
- Topographic Surveys
- Site Planning Surveys
- Subdivision Surveys
- Construction Surveys
- Wetland Boundaries
- Global Positioning Surveying (GPS)
- Municipal Boundary Adjustments
- Construction Staking
- Machine Control
- Surveying support for Utilities (gas, power, fiber, etc.)
- Surveying support for A/E firms

CONSTRUCTION MANAGEMENT

- Resident Construction Inspection
- Construction Contract Administration
- Safety Training (Trench Site Inspection)