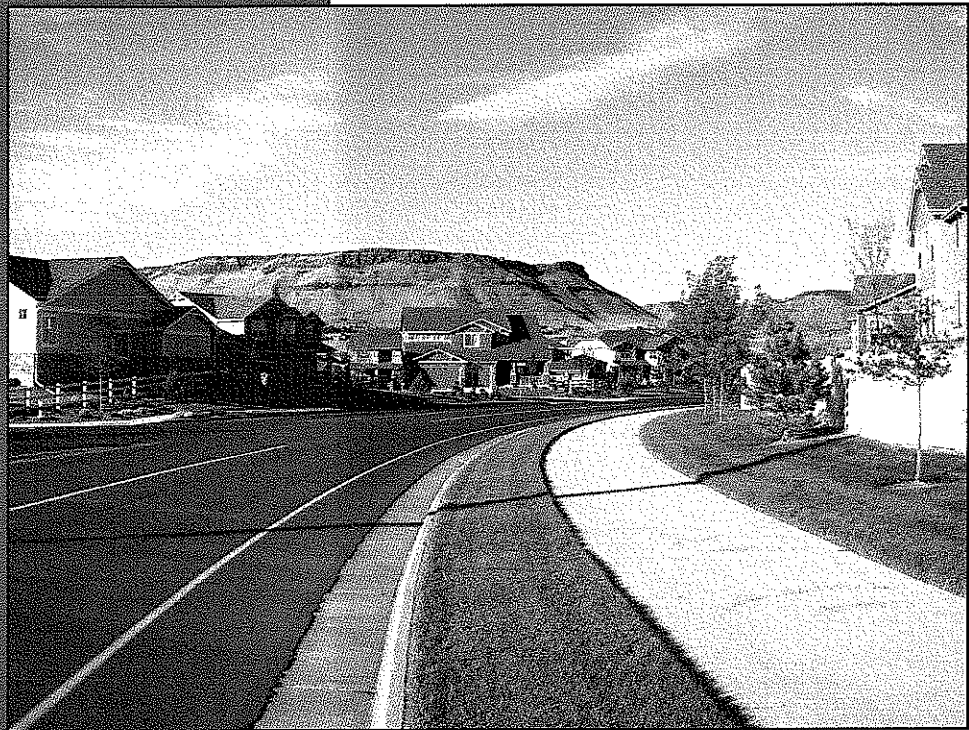


Expression of Interest for Engineering Services

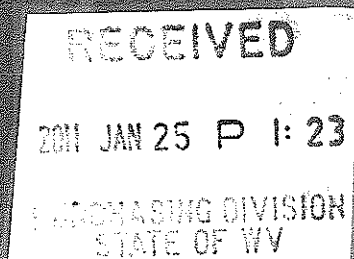
Charleston Complex Access
Road and Utility Upgrades
#DEFK 11024



Prepared for
West Virginia Air National Guard

Attn: Ms. Tara Lyle
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

CTL Engineering of WV, Inc.
510 C Street
South Charleston, WV 25303



January 25, 2011

Purchasing Division
2019 Washing Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Attention: Ms. Tara Lyle

Reference: Engineering Expression of Interest
Charleston Complex Access Road and Utility Upgrades #DEFK 11024
WV Army National Guard
1707 Coonskin Drive
Charleston, WV 25311-1099
CTL Proposal No.: 1110005CHA-PPL

In response to your Expression of Interest (EOI), CTL Engineering of WV, Inc. (CTL) is pleased to submit this statement of qualifications to provide Engineering Services for the design of an access road, utility upgrades, and rough site grading to the Charleston Armory Complex to provide future building sites. We prepared this statement based upon information in the request as well as considering our extensive experience with similar types of projects.

We hope to demonstrate in this presentation our belief that CTL is the best choice for the services requested due to our size, capabilities, value and experience. CTL Engineering is an Employee-Owned company with local Planners, Civil Engineers, Surveyors, Geotechnical Engineers, Environmental Engineers, Construction Management, Construction Inspection and Testing capabilities for performing the services required on this project.

We hope this presentation gives an indication of our qualifications, experience and abilities. You are invited to visit our office and laboratory facilities at your convenience or we are willing to meet with members of the project team so that we can further demonstrate the quality of our operation. Please call if you require any additional information to assist in your decision regarding our proposal.

Thank you for your consideration.

Respectfully Submitted,
CTL ENGINEERING OF WV, INC.



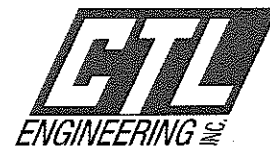
David E. Moore, P.E.
Civil Department Manager
Branch Manager

EXECUTIVE SUMMARY



Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



EXECUTIVE SUMMARY

CTL Engineering is a full service consulting engineering, testing and inspection company with a significant amount of experience in the construction industry. CTL has maintained a presence within the Charleston metropolitan area for 10 years and throughout the State of West Virginia for over 25 years. We have over 200 employees including Registered Professional Engineers, Surveyors, Geotechnical Engineers, Environmental Engineers, and a variety of Construction related personnel including Inspectors and Certified Engineering Technicians. CTL is qualified to provide services in the following disciplines: Planning, Civil Engineering, Surveying, Geotechnical Engineering, Structural Engineering, Observation & Testing of Construction Materials and Processes, Environmental Services, Mechanical and Metallurgical Analysis, Non-Destructive Evaluations, Chemical Analysis, Roofing Design and Inspection, Building Envelope Evaluation, Pavement Design, Structural Steel and Product Testing.

At CTL the project team communicates on a daily basis on project design issues. To resolve the more difficult design issues we briefly meet with the team members and utilize a team approach to resolve design issues. We perform in house quality control through the use of prepared checklists and by utilizing team members from another in house or inter office to cross check the designs prepared by others. Prior to submitting the plans to the West Virginia Army National Guard the documents are checked in accordance with our internal QA/QC checklists and any applicable agency standards that apply.

CTL operates under the guidance of our Quality System Manual, which addresses all requirements of ASTM E 329 "Standard Practice for Use in Evaluation of Testing and Inspection Agencies as Used in Construction," and AASHTO R18 "Establishing and Implementing a Quality System for Construction Materials Testing Laboratories." We are regularly inspected by agencies such as the West Virginia Department of Transportation the U.S. Army Corps of Engineers. All testing will be performed in conformance with the applicable ASTM, code or governing standards unless otherwise directed by the design engineer.

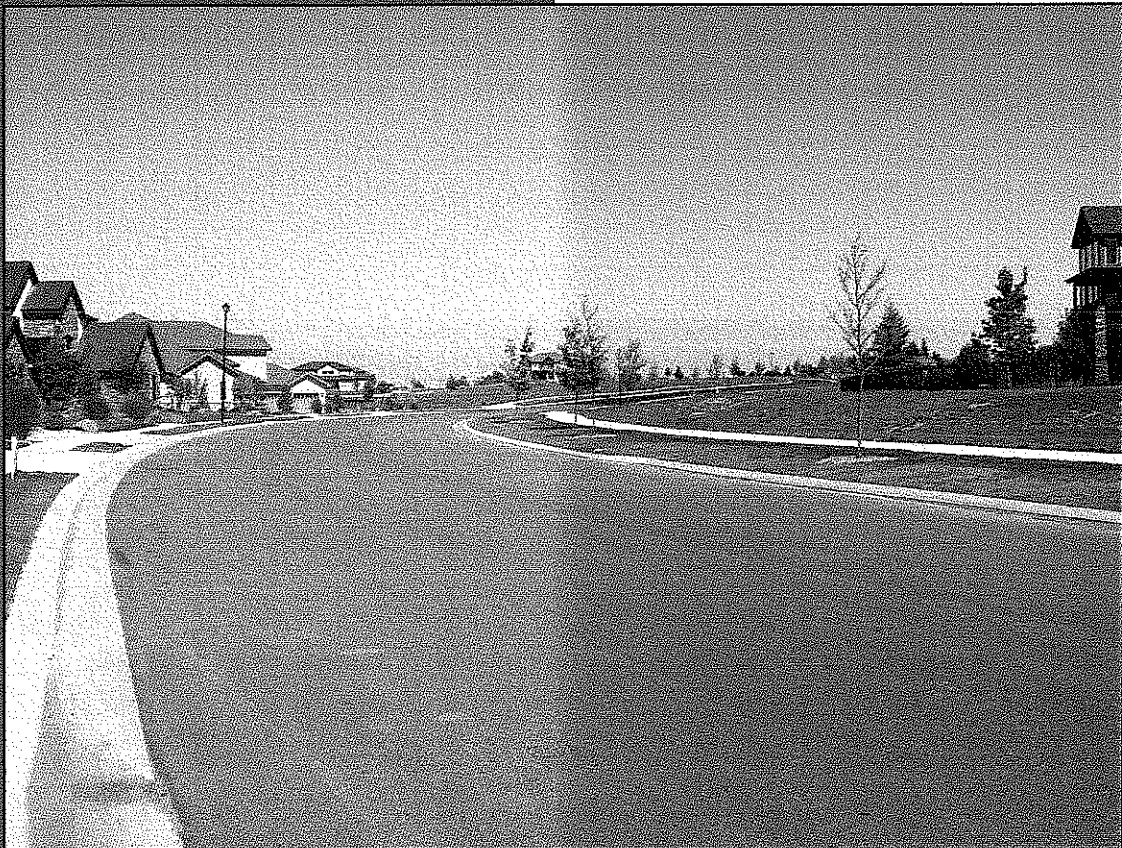
This Quality System Manual provides procedures and verification that our services meet a minimum requirement as defined by the national standards listed above. This includes items such as inspection and testing procedures, training and evaluation of staff, calibration frequency of equipment and verification of the capabilities of the organization. Naturally, a comprehensive document such as this is quite voluminous and we consider it proprietary. Therefore, we have not included this information as part of our submission. However, the entire document is available for review, upon request.

CTL maintains professional liability insurance coverage for all of our projects. We currently have a \$2 million aggregate policy. It is our understanding that some of our competitors do not possess professional liability insurance.

Details regarding our project approach will be addressed in the Project Approach section of this proposal.

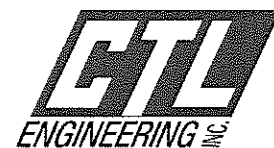


PROJECT APPROACH



Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



PROJECT APPROACH

We understand this project involves design of an access road, utility upgrades, and rough site grading to the Charleston Armory Complex. The work could include development planning, surveying, road design, utility design, landscape design, subsurface evaluation, geotechnical engineering, construction management, construction inspection and testing. There will be a considerable amount of project management and coordination with the WVANG, WVDOH, WV American Water, Yeager Airport, City of Charleston, Mountaineer Gas, and American Electric Power.

Based upon our experience with similar projects, CTL anticipates our services would include, but not necessarily be limited to the following:

Planning

1. Review of available data (drawings, recorded data, photographs, etc.)
2. Meetings with WVANG, WVDOH, and the City of Charleston to develop a preliminary development plan and preliminary road design drawings and a preliminary plat of the proposed development.

Surveying

1. Prepare topographic survey and property boundary base sheets for use in the design process.

Geotechnical Engineering

1. Subsurface investigation services,
2. Geotechnical Engineering analysis and design for the road and utility design.
3. Geotechnical Engineering support during construction.

Road Design

Prepare a road design based upon the approved preliminary plan to provide ingress and egress to the development minimizing adverse grades.

Utility Design

1. Prepare water plans and profiles in accordance with WV American Water Standards.
2. Prepare sewer drawings in accordance with the City of Charleston Sanitation District Standards.
3. Coordinate with American Electric Power in the layout and design of electrical lines.
4. Coordinate with Mountaineer Gas with the design and installation of gas utility lines.

5. Coordinate with Suddenlink/Fibernet with the installation of internet/phone/cable utilities.

Structural Engineering Services

1. Design of retaining walls, bridges or other structural related appurtenances.
2. Construction drawings.
3. Engineering support during construction.

Construction Administration Services

1. Project pre-bid meetings.
2. Preparation of project bid documents, project bidding and bid acceptance meeting.
3. Review of contractor bids and recommendations regarding award of construction contracts.

Construction Testing and Inspection Services

1. Inspection of road and utility construction inspection.
2. Verification, by proof rolling, of native subgrades prior to engineered fill, pavement and slab-on-grade placements as well as verifying the site preparation per the plans and specifications.
3. Observation and density testing during placements of engineered fills, pavement materials and backfills.

Project Management

For a project such as this, project management and communication are keys to meeting the project time schedule and budget. We intend to provide project management with active participation in the various work activities related to our services. This would include holding project meetings to stay up to date on the projects progress and budget, to assure the transmission of information to all project team members and to assure efficient use of resources.

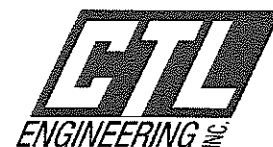
Further details regarding personnel assignment are included in the Team Organization and Resume section.

TEAM ORGANIZATION and RÉSUMÉS



Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



Morgantown Office
 733 Fairmont Road
 Morgantown, WV 26501
 (304) 292-1135

Patrick E. Gallagher, P.E. – Branch Manager

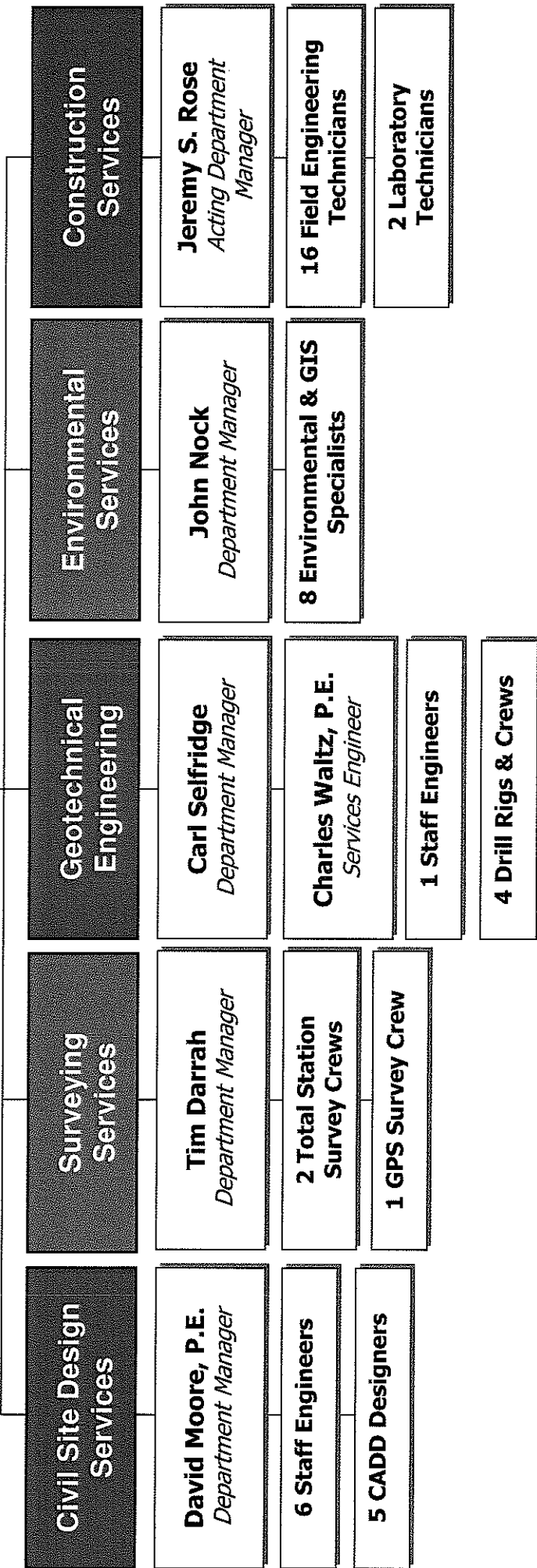
Charleston Office
 510 C Street
 South Charleston, WV 25303
 (304) 746-1140

David E. Moore, P.E. – Branch Manager



Patrick E. Gallagher, P.E., CPGS
President
Project Executive

David Moore, P.E.
Project Manager



TEAM ORGANIZATION

The following is our proposed staff for this project. Actual assignment will depend up the project requirements and the direction of your designated representative.

Supervisory Staff

CTL will assign **Mr. Patrick Gallagher, P.E.**, and a Professional Engineer with over 30 years of relevant experience, to serve as the project principal. Mr. Gallagher will utilize his extensive engineering experience to provide leadership and peer review of CTL's activities as well as technical support.

CTL will assign **Mr. David E. Moore, P.E.**, and a Professional Engineer with 30 years of relevant experience to serve as the project manager for this project. Mr. Moore has significant experience with the design and construction of development projects and road design and construction. He will coordinate with the local agencies and direct the overall design of the project.

CTL will assign **Mr. Tim Darrah**, an experienced engineer with almost 20 years of relevant experience; to serve as the Survey Manager for the project

Project Personnel

Civil

Civil Site Design Services for this project will be completed by **Mr. David E. Moore, P.E.** with the assistance of Mr. Benjamin G. Campbell, E.I.

Mr. Moore has extensive experience in the public and private sector with construction management, project planning, design and development of roadway and utility design construction projects. Mr. Moore manages the Civil Site Design department.

Surveying

Surveying Services for this project will be completed by **Mr. Timothy A. Darrah** with the assistance of Mr. J.B. Chambers.

Mr. Darrah has performed numerous surveying and layout duties for construction projects including roadways, utilities and project design and management. Mr. Darrah manages the Surveying Services.

Geotechnical

Geotechnical Engineering Services for this project will be completed by **Mr. Carl Selfridge** with the assistance of Mr. Charles Waltz, P.E.

Mr. Selfridge has performed engineering analyses, geotechnical design, developed foundation

recommendations and reports. He manages the Geotechnical Engineering Services Department and duties include evaluation of geologic site conditions, mining conditions, soil and rock classifications, slope stability, settlement, scour potential and other design considerations.

Construction Services

Construction services for this project will be completed by **Mr. Jeremy S. Rose** with the assistance of Mark C. Dickson.

Mr. Rose has performed extensive materials testing and construction observation duties in conjunction with QA/QC activities. Mr. Rose has completed numerous types of construction testing for compaction of soil and asphalt, concrete testing and currently manages the field testing services.

Resumes of the key personnel for this project are attached for your review.

PATRICK E. GALLAGHER, P.E., C.P.G.S.

President

Expertise

Mr. Gallagher serves as President of CTL Engineering of West Virginia, Inc. Projects successfully completed under Mr. Gallagher's direction include: Civil Site Design, Foundation Design, Storm Water Management, Waste Water Design, Roadway design, Parking Lot Design, Geotechnical Investigations & Design, Site Stability Analyses, Mine Subsidence Evaluations, Failure Investigations and Environmental Investigations and Permitting.

Prior to joining CTL Engineering, Mr. Gallagher was the chief of the Abandoned Mine Reclamation Program for the State of Maryland, Department of Natural Resources, and Bureau of Mines. In addition, he was also responsible for overall engineering/geologic support to the Maryland Bureau of Mines Program.

Education

B.S., Civil Engineering

Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1975

B.S., Equivalent, Geology

Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1975

Professional Registration / Certifications

Registered Professional Engineer

Ohio, # 48459; Maryland, # 13256; West Virginia, # 9297; Pennsylvania, # PE-044930-R; Wyoming, # 11033; North Carolina, # 0 32503; Kentucky, # 24988

Certified Professional Geological Scientist, # 6575

Professional Surveyor, WV

Adjunct Professor – Civil Engineering – Fairmont State College 2001 – 2002

27 Years Experience with CTL Engineering, Inc.

Experience

A partial listing of Mr. Gallagher's relevant project management experience includes:

Chaplin Hill Business Park, Morgantown, West Virginia

Responsible for site conceptual design, hydrology, storm water management, grant preparation, supervision during bidding phase, construction management, and final grant approval.

Blanchette Rockefeller Neuroscience Building, WVU Hospitals, Morgantown, WV

Project included Site Plan, Site Grading, Utility Coordination, Sedimentation & Erosion Control, Bid Documents & Pre-Bid Conference. Design required close tie to existing facilities and utilities. Coordination between WVU Hospitals and architect to meet site needs and limit day to day disruptions from construction and traffic.

PATRICK E. GALLAGHER, P.E., C.P.G.S.

President

Suncrest Executive Plaza

Under Phase 1 of this five-story office complex project, CTL provided the following services: surveying, geotechnical and civil site design. The civil site design included sedimentation and erosion control plans and permits, storm water management design utilizing 1,600 feet of 48' GCMP for storage, grading plans, utility coordination and WV DOH entrance permits for turning lane access to the site. CTL also provided construction drawings for the project. CTL is currently involved in Phase 2 of this project involving addition office building and is providing similar services as Phase 1

Glenmark Center, Shopping Plaza, Morgantown, West Virginia

CTL provided geotechnical engineering, Phase 1 environmental assessment, civil site design, "site specific" storm water management, surveying, sanitary treatment facilities for this ten plus acre plaza.

E A Development, The District, Student Housing, Morgantown, WV

This is a 30 ace development including 20 apartment buildings, clubhouse. CTL provided geotechnical investigations, conceptual and final plans, road layout, bridge location, DOH permit and design for access, grading plans, retaining wall design, storm water systems and detention. CTL was responsible for permitting, including: Sediment & Erosion Control, DOH Highway Access, Stream Crossing Permit, Right of Access and License Agreement for temporary and permanent culverts and stream crossing, 100 year Flood Study for Monongalia County Development Permit, 401 Water Quality Certification and the Section 404 Permit.

Cheat Lake Waste Water Treatment Plant Expansion, Morgantown, WV

Project Manager responsible for providing oversight and recommendations for this project. The project included increasing the capacity from 250,000 gallons/day to 750,000 gallons/day.

Chaplin Hill Sewer and Water System Expansion, Morgantown, WV

Project Manager responsible for overseeing quality assurance for corrosion protection, utility trenching, line expansion and construction methods for this project.

WVU Hospitals, Morgantown, WV

CTL provided geotechnical, surveying and civil site design support services in conjunction with WVDOH and WVU for a new access road and parking area design for surrounding hospital area.

WVU Wise Library

Project Manager/Engineer providing geotechnical oversight of investigations for the building foundation systems on the construction of a new six (6) story library, which included the design of an extensive tie-back/soldier pile wall system.

PATRICK E. GALLAGHER, P.E., C.P.G.S.

President

WVU Life Sciences Building

Project Manager/Engineer providing geotechnical oversight of the drilling and investigations and recommendations needed for the construction of the Life Sciences Building.

WVU Eye Institute

Project Manager/Engineer providing geotechnical oversight for the geotechnical investigations and foundation recommendations performed for this \$5 M dollar patient care facility.

Physicians Office Center, WVU Hospital

Project Engineer responsible for the oversight of the geotechnical drilling and site investigations for this project.

Professional Affiliations

American Society of Civil Engineers

Society of Mining Engineers, of A.I.M.E.

Triangle Fraternity of Engineers, Architects, and Scientists

International Society for Soil Mechanics and Foundation Engineers

American Institute of Professional Geologists

Publications

“Dynamic Compaction of Surface Mine Spoils to Limit Settlements Within Commercial Developments”, Presented Patrick E. Gallagher and C.K. Satyapriya, Constructing and Controlling Compaction of Earth Fills, ASTM Seattle, Washington July 1-3 1999

“Mine Subsidence Stabilization In Steeply Dipping Seams In The Canadian Rockies. A Project Overview” Presented by Patrick E. Gallagher at the 19th Annual Conference of the Association of Abandoned Mine Land Programs Canaan Valley, WV August 17-20 1997

DAVID E. MOORE, P.E.

Civil Department Manager

Expertise

Mr. Moore has thirty two years experience in design and construction in the fields of planning, civil engineering, structural engineering, general contracting, expert testimony, land development, surveying, landscape architecture, project management, business management, construction and engineering quality control.

Presently Mr. Moore manages the civil engineering department of the CTL Engineering South Charleston WV office. This office performs consulting engineering in the fields of civil engineering, mining engineering, environmental engineering, geotechnical engineering and construction testing.

Work History

2009 – Present, Civil Department Manager, CTL Engineering, S. Charleston WV
1999 – 2009, Owner/Manager, Alliance Consulting Engineers & Surveyors, Arvada/Longmont, CO
1991 – 1999, Vice President, Jehn Engineering, Arvada, Colorado
1986 – 1991, Associate, KCI Technologies, Westminster, Maryland
1983 – 1986, Vice President, Haese Corporation, Boulder, Colorado
1981 – 1983, Research Assistant, University Of Colorado, Boulder, Colorado
1976 – 1981, Civil Engineer, Fluor-Daniel Inc., Irvine, California

Education

M.S., Civil Engineering, Colorado University, Boulder, CO, 1983

B.S., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 1978

Professional Registration

Registered Professional Engineer: Maryland; Nevada; West Virginia; Wyoming; Colorado; Alberta Canada; Kentucky; Ohio; and NCEES No. 30791. LSI: Colorado.

Professional Affiliations

American Society of Civil Engineers
American Institute of Architects
Home Builders Association
Society of American Military Engineers

Publications

Mr. Moore published "Union and Non Union Construction in Colorado" in 1984 a Master's Thesis commissioned by the Associated General Contractors of Colorado.

Project Experience

Residential Subdivisions

- VEPCO Bath County Worker Housing (Design Build), Bath County, Virginia
- Chevron Carter Creek Worker Housing (Design Build), Evanston, Wyoming
- Heritage Heights Single Family Subdivision, Westminster, Maryland

DAVID E. MOORE, P.E.

Civil Department Manager

- Hewitt Farms Single Family Subdivision, Baltimore, Maryland
- Clearview Single Family Subdivision, Johnstown, Colorado
- Candlelight Ridge Single Family Subdivision (Design Build), Erie, Colorado

Senior Housing

- Golden Pond Apartments, Assisted Living and Alzheimer's Facility, Golden, Colorado
- Highland Trail Retirement, Broomfield, Colorado
- Arvada Estates Retirement, Arvada, Colorado
- Orchard Gardens Senior Facility, Arvada
- Oberon House Assisted Living Facility, Arvada, Colorado

Commercial Sites

- Koon's Toyota Car Sales Facility, Westminster, Maryland
- Empire Lakewood Nissan, Lakewood, Colorado
- Remax Alliance Office Building, Westminster, Colorado
- Comfort Inn Suites, Longmont, Colorado
- Eagle National Bank, Broomfield, Colorado
- Columbine Professional Plaza, Arvada, Colorado

Golf Courses

- Flatirons Pro Shop at Flatirons Golf Course, Boulder Colorado
- 18 Hole West Woods Golf Course, Arvada, Colorado
- 9 Hole West Woods Golf Course Addition, Arvada, Colorado

Water Resources and Drainage Projects

- Ralston Creek/Croke Canal Overpass, Arvada, Colorado
- Farmers Highline Canal Realignment, Arvada, Colorado
- Church Ditch Flow Limiter, Arvada, Colorado
- Ralston Creek LOMAR, Arvada, Colorado
- Drainage Reports, Plans and Storm Drain Designs on all projects.

Water and Sewer Distribution Projects

- International Fiber Water Main Extension, Nitro West Virginia
- Ralston Creek Water and Sewer Main Extensions, Arvada, Colorado
- Clearview Sewer Main Extension, Johnstown, Colorado
- Tucker Lake Water Intake and Pipeline, Jefferson County, Colorado
- Ralston Reservoir 20" Water Main, Arvada, CO

Landscape Architecture

- Ralston Creek Trail Design, Arvada, Colorado
- Melody Farms/Candlelight Ridge Regional Park (Design Build), Erie Colorado
- Boulder County Trail System, Boulder County, Colorado
- Jefferson County Trail Access and Parking Lot, Westminster, Colorado
- Ryan Ranch Trail System and Landscaping (Design Build), Jefferson County, Colorado

State Highway Road Design

- 2 Miles of US Route 60, Johnstown, Colorado
- One Mile of US Route 119, Black Hawk, Colorado
- Highway 52, Boulder County, Colorado
- US 119 Road Improvements, Longmont, Colorado

DAVID E. MOORE, P.E.

Civil Department Manager

Land Development

- Owner Developer of Ridgeview Estates, Adams County Colorado
- Owner Developer of Moore Estates, Jefferson County Colorado
- Owner Developer of Candlelight Estates, Erie, Colorado

Structural Engineering

- Sheridan College Dormitories and Community Buildings, Sheridan Wyoming
- Quaker Street and Ralston Creek Bridge (Design Build), Arvada, Colorado
- Platte Canyon Road Box Culvert (Design Build), Littleton Colorado
- Powerhouse Unloading Bay Superstructure, Warm Springs, Virginia
- 108th Commercial Office Building, Westminster, Colorado
- Colorado Horse Rescue Offices, Barn and Riding Arena (Design Build), Boulder County, Colorado
- Ryan Ranch Retaining Wall Design and Build, Jefferson County, Colorado
- General Residential Foundation Design and Inspections
- Structural Inspections and Reports

Utility Projects and Pump Stations

- Hillandale Well, Water Tank and Distribution System (Design Build), Finksburg, Maryland
- Hillandale Sewer Pump Station and Wastewater Treatment (Design Build), Finksburg, Maryland
- West Woods Golf Course Non Potable Water Pump Station/Distribution System, Arvada, CO
- City of Arvada Church Ditch/Arvada Reservoir Potable Water Pump Station, Arvada, Colorado
- Town of Johnstown Regional Sewerage Pump Station, Johnstown, Colorado

Mining Projects

- Williams Mine AML Coal Reclamation Project, Enterprise, West Virginia
- Limestone, Aggregate and Sand Quarry, Warm Springs, VA
- Aggregate and Concrete Plant Engineer, Bath County, Virginia

Environmental Projects

- Burke Parsons Bowlby Monitoring Well/Environmental Testing, Spencer, WV
- International Fiber Storm Water and Ground Water Protection, Nitro, West Virginia
- Sigman Industrial Park Environmental Clean-up, Arvada, Colorado
- AutoZone Site Remediation, Westminster, Colorado

Power Projects

- Bath County Pumped Storage Hydroelectric Project, Bath County, Virginia
- Chevron Carter Creek Gas Project, Evanston, Wyoming
- Wolf Creek Nuclear Power Project, Coffey County, Kansas

General Contracting

- City of Federal Heights Municipal Building, Federal Heights, Colorado
- Mesa Village Subdivision, Louisville, Colorado
- Christian Science Reading Room, Pearl Street Mall, Boulder, Colorado
- Sunrise Apartments, Scottsdale, Arizona

CARL G. SELFRIDGE

Geotechnical Engineer

EDUCATION:

Rensselaer Polytechnic Institute; Troy, NY

- **Graduate Studies, Civil Engineering** (Geotechnical), 1996-1999
- **B.S., Civil Engineering** (Geotechnical & Structural), 1996

Adirondack Community College; Queensbury, NY

- **A.S., Engineering Science**, 1994
- **A.A.S., Mechanical Technology - Design & Drafting**, 1991

REGISTRATIONS:

Engineer Intern (EI): New York, 1996

CERTIFICATIONS & TRAINING:

Pennsylvania Dept of Transportation Level II Drilling Inspector, 1999

ARC Adult CPR Trained, Expires: 08/30/2006

ARC First Aid Trained, Expires: 08/30/2008

CSX Transportation Contractor Safety Trained, Expired: 2004

Mine Safety Trained (Construction), Expired: 2003

AMTRAK Contractor Safety Trained, Expired: 2001

EXPERIENCE

CTL Engineering of WV, Inc., Morgantown, WV (2007)

Responsibilities:

Mr. Selfridge has been employed by CTL Engineering for nearly one (1) year. Annually manages 100+ various geotechnical projects; including transportation, commercial development, public schools, and a variety of public and private clients. Directs all aspects of the geotechnical engineering for CTL WV. This includes the management of field drilling activities, field classification of soil, rock, field and laboratory safety procedures, the assignment of a laboratory testing program, and performing geotechnical evaluations. Engineering evaluations include foundation recommendations, settlement analysis, slope stability analysis, earth pressure coefficients and report preparation.

Gannett Fleming, Inc., Morgantown, WV (2000-2006)

Valley Forge, PA (1999-2000)

Responsibilities:

Responsible preparing technical scope of services, cost estimates, prepare and administer core boring contract bid documents, coordinated with PLT section leader and office manager on office geotechnical work load and manpower needs. Responsible for conducting geotechnical studies, site reconnaissance, the development and

CARL G. SELFRIDGE

Geotechnical Engineer

inspection of geotechnical subsurface investigation programs, the preparation of laboratory testing programs. Performed engineering analyses and design, developed geotechnical and foundation recommendations, and prepared geotechnical and foundations reports. These responsibilities also entail the evaluation of geologic site conditions, mining conditions, groundwater conditions, soil and rock classifications, foundation stability and capacity, settlement, slope stability and retaining wall stability, scour potential, and other geotechnical design considerations.

Projects:

US Route 35 Little Fivemile Creek to Coast Guard Station, Mason County, WV, R. D. Zande / West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for the site reconnaissance, core boring program bid documents, geotechnical site investigation program, laboratory testing program. The project consists of the placement and relocation of the current two lanes of Route 35 with a new four lane alignment. The new proposed alignment will require proposed two parallel single span bridges and two parallel three span bridges.

Dolls Run Bridge Replacement, Monongalia County, WV, West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for the site reconnaissance, geotechnical site investigation program, core boring bid documents, laboratory testing program, geotechnical analysis and prepared recommendations, prepared Geotechnical Engineering Report. The project consists of replacing the existing two span bridge with a new single span integral abutment bridge at its existing location. The project required the use of a temporary bridge and detour alignment partly over a wetland area.

King's Covered Bridge Rehabilitation, Somerset County, PA, Simone Jaffe Collins (SJC) / Pennsylvania Department of Transportation, District 9-0. Engineer responsible for the inspection and documentation of the current conditions and details of historic wood timber covered bridge. Evaluated and modified the existing stone and mortar abutments and wingwalls. Performed literature and document review to better understand covered bridge and period design and construction. Assisted with the evaluation and rehabilitation design and details of the covered bridge's trusses, siding, flooring and roofing systems. The bridge was analyzed to verify that the bridge carry current AASHTO pedestrian loads requirements. This project consisted of the evaluation, documentation, preservation and rehabilitation of a historic covered bridge. The bridge consisted of a single span 120 feet Multiple King Post and Modified Burr Ache Truss System. The bridge was built in the ca. 1845 with an originally rehabilitation occurring in ca. 1906. The King's bridge is historically significant because it still retains most of its original features from its 1906 rebuild. This bridge was in use until it was bypassed in the 1930s by the construction of an adjacent steel grate highway bridge for vehicular traffic. The preservation and rehabilitation strategy for the King's covered bridge is to minimize interventions, repair in-place, and to use traditional timber framing techniques in conjunction with modern repair techniques such as juggle joints, epoxies, and the use of glass fiber reinforced polymer (GFRP) materials where possible to improve the strength and stiffness of the wooden members.

WV 705 Connector Alternative Study, Monongalia County, WV, West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for performing site reconnaissance of the project area and evaluated the existing site conditions as they may pertain to the design of different proposed alternatives.

King Coal Highway (US Route 52) with WV Route 65 Relocation, Mingo County, WV, Nicewonder Contracting, Inc. / West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for geologic reconnaissance, geotechnical site investigation program, site mining issues, cut slope analysis and design, very large embankment fills analysis and design, and other geotechnical design and analysis. The King Coal Highway Project is a proposed 96-mile, four-lane divided highway running from Williamson to Bluefield. This section consists of 9.0 miles of the proposed highway is located in the vicinity

CARL G. SELFRIDGE

Geotechnical Engineer

between Red Jacket and Hampden. This section of the project will also consist of the proposed relocation of the existing two-lane roadway of WV Route 65 that runs between Taylorville and Red Jacket and will tie into the proposed King Coal Highway with an at grade intersection. These sections of roadway will be developed over an area of rugged topography with an extensive history of surface and deep mining activities. The King Coal Highway section is proposed to encompass large areas with mine overburden mountaintop back stacks and existing mine valley fills and a very large engineered valley fill, and to pass under very high highwalls. This section of road is being constructed in conjunction with the current mining activities. Gannett Fleming is assisting with preliminary engineering and final design for the Sates first public/private highway project involving Nicewonder Contracting, WVDOH, and Mingo County.

Special issues:

- Performed onsite inspection and monitoring and control of Dynamic Compaction Test Program to compare the reaction of different valley fill types. Prepared the Geotechnical Engineers Recommendation Report.
- Mine spoil fire site analysis and recommendations.

S.R. 0040, Section 06M, Youghiogheny Bridge Replacement over the Youghiogheny Reservoir, Fayette and Somerset Counties, PA, WAGMAN, Inc. / Pennsylvania Department of Transportation, District 12-0. Geotechnical Engineer responsible for conducting on-site geotechnical investigation and analyses of subsurface information for a proposed alternate replacement bridge structure over the Youghiogheny Reservoir. The alternate consisted of an eight (8) span continuous composite steel multi-girder bridge structure. The drilling program took place on a floating work platform (barge) during the fall lowering of the Youghiogheny Reservoir to its winter storage level.

S.R. 885, Section A03, Boulevard of the Allies Bridge Replacement over Forbes Avenue, Pittsburgh, PA, Pennsylvania Department of Transportation, District 11-0. Geotechnical Engineer responsible for conducting on-site geotechnical investigation and performed analyses of the subsurface investigation information for use in the design and analysis of two replacement bridge structures, new roadways and six retaining walls.

Osage Mine Complex Reclamation, Monongalia County, WV, West Virginia Department of Environmental Protection. Geotechnical Engineer responsible for assisting with preliminary field and office site reconnaissance for the preparation of construction plans and specifications for the reclamation of five abandoned mining sites under the Abandoned Mine Lands and Reclamation Program. The projects reclamation measures included closure of mine portals, re-grading and re-vegetation of refuse piles, landslide stabilization, closure of a ventilation shaft, building demolition, and drainage improvements.

Lick Run Bridge (LC09), and Scotia Hollow Bridge (XC01), Allegheny County, PA, County of Allegheny. Geotechnical Engineer responsible for assisting with the preparation of the Problem Statement and Draft Exploration Plan for preliminary and final design activities for the rehabilitation or replacement of the two bridges in the Allegheny County Bridge Design Group B. These projects include developing and implementing subsurface investigations and laboratory testing programs to determine rehabilitation and replacement alternatives meeting current PENNDOT design (LRFD) standards. Geotechnical analyses include determining bearing capacity, settlement, scour potential, and underground mining conditions based upon the subsurface data collected. Preliminary geotechnical reconnaissance reports and final foundation recommendations were prepared and submitted to the County and the Pennsylvania Department of Transportation for acceptance.

Martins Ferry Water System Improvement Project, Belmont County, OH, City of Martins Ferry. Geotechnical Engineer responsible for the geotechnical site investigation, subsurface investigation program,

CARL G. SELFRIDGE

Geotechnical Engineer

mine subsidence investigation, cut-and-fill slope stability review and analysis, embankment settlement analysis, and geotechnical design and analysis. This proposed water tank is part of the City of Martins Ferry water system improvement project.

Thompson Run Road Bridge No. 2, Allegheny County, PA, *Allegheny County*. Geotechnical Engineer responsible for conducting the inspection of the subsurface investigation program. This structure is part of the evaluation of Allegheny County Group H Bridges for replacement. The Existing Thompson Run Bridge No. 2 along with Bridge No. 3 were being replaced due to the structural deterioration and weight restrictions at both structures. The reconfiguration of the existing stream channel eliminated the need to replace both structures.

S.R. 0028, Galleria Mall Interchange, Allegheny County, PA, *Mills Corporation*. Geotechnical Engineer responsible for conducting on-site inspection and analyses of a subsurface investigation for a new interchange on S.R. 0028. Reviewed and prepared quantities for the drainage structures and E&S control. The interchange will service a newly developed regional mall along a rural portion of highway 1.1 miles northeast of the Harwick Interchange. The project also involves the relocation of Tawney Run Road, which could impact several properties containing potentially contaminated materials.

Ambridge-Aliquippa Bridge Replacement, Beaver County, PA, *Pennsylvania Department of Transportation, District 11-0*. Geotechnical Engineer responsible for performing site reconnaissance and assessments of five alternative locations for a proposed new bridge to replace the existing Ambridge-Aliquippa Bridge that connects State Routes 65 and 51 over the Ohio River. Performed the following tasks for each alternative for their use in the completion of the Phase I geotechnical engineering report (GER).

- Inspected and noted the conditions of existing structures, utilities, roads, drainage structures, and general site conditions.
- Reviewed and compared historical drawings and photographs with existing site conditions.
- Reviewed and noted signs of wetlands, previous geotechnical drilling, geologic hazards, erosion, flooding, slope movements, and possible hazardous waste contamination.
- Assessed existing cut slopes along S.R. 51 for rockfall hazards by the Rockfall Hazard Rating System (RHRS) method and prepared cut slope inventories. Evaluated other slopes for signs of movement.

Midway Sewerage Treatment Plant, Washington County, PA, *Midway Sewerage Authority*. Geotechnical Engineer responsible for drilling inspection, subsurface analyses, and foundation analyses for the design and construction of a proposed sewerage treatment plant at an alternate site. The proposed facility included six new structures: a pump station, a headworks building, two sequencing batch reactor basins, an ultraviolet disinfection building, a control building, and a garage/maintenance building. Remote pump station construction consisted of the installation of four remote pump station wet wells, access roads, and storage sheds. The project included developing and executing a subsurface investigation and associated laboratory analyses of soil samples, calculating ultimate and allowable bearing pressures, analyzing potential settlement, estimating lateral earth pressures, evaluating hydrostatic uplift, and presenting the findings and recommendations in a geotechnical engineering report.

King Coal Highway, Mingo County, WV, *West Virginia Department of Transportation, Division of Highways*. Geotechnical Engineer responsible for geotechnical site investigation, boring layout, drilling program, mine subsidence investigation, cut-and-fill slope stability review and analysis, embankment settlement analysis, and geotechnical design and analysis. The King Coal Highway Project is a proposed 96-

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Geotechnical Engineer

mile, four-lane divided highway running from Williamson to Bluefield. This section consists of 3.3 miles of the proposed highway located in the vicinity of Sharon Heights, and will be developed over an area of rugged topography with an extensive history of surface and deep mining activities. The section is proposed to encompass large areas of mine spoil valley fills and a very large engineered valley fill, and to pass under very high highwalls. This section of road is being constructed in conjunction with the current mining activities.

Sharon Heights Connector, Mingo County, WV, West Virginia Department of Transportation, Division of Highways. Geotechnical Engineer responsible for geotechnical site investigation, boring layout, drilling program, mine subsidence investigation, slope stability. The Sharon Heights Connector is a 2.9-mile, two-lane roadway with truck climbing lanes and will connect U.S. Route 52 (intersecting at U.S. Route 52 and County Route 52/2, near Sharon Heights) to the King Coal Highway. The project will also consist of the addition of a bridge structure carrying the Connector over Horsepen Creek and the widening of the existing bridge structure carrying U.S. Route 52 over the Browning Fork. It is being developed in an area with an extensive mining history.

Southern Beltway, Findlay Connector, PA Route 60 to U.S. Route 22, Allegheny and Washington Counties, PA, Pennsylvania Turnpike Commission. Geotechnical Engineer responsible for reviewing boring logs and profiles, along with the proposed designed alignment geotechnical cross sections, plan views, and profiles for correctness and completeness. The project is a preliminary design of approximately seven miles of proposed toll highway between S.R. 0022 and the Southern Expressway (PA Route 60) at the Pittsburgh International Airport. The proposed alignment passes through rugged topography that has been heavily mined by both underground and surface methods, and contains several areas of potentially contaminated municipal landfills. One portion of the highway passes over a burning underground mine.

Stage II Light Rail Transit System, Pittsburgh, PA, Port Authority of Allegheny County. Geotechnical Quality Control Inspector on the Construction Management Team assisting in monitoring geotechnical field activities of tieback anchor installations and load testing in soldier pile and lagging walls. The entire tieback anchor installation project included drilling and testing more than 2,200 rock anchors within varied geology, which posed logistical problems for the acceptance of bond zone, due to high-fracture rock, and for testing acceptance, due to the large number of concurrent testing activities.

Source Water Assessment and Protection (SWAP) Program, Beckley District, WV, West Virginia Department of Health & Human Resources, Bureau for Public Health. Engineer responsible for performing wellhead delineation and assisting in preparing reports for 44 public water systems.

S.R. 2040, Curry Hollow Road Realignment, Allegheny County, PA, Pennsylvania Department of Transportation, District 11-0. Geotechnical Engineer responsible for conducting on-site inspection and analyses of the subsurface investigation for the proposed widening and realignment of approximately one mile of a four-lane roadway, including the replacement of a deteriorated bridge. Performed a stability analysis on the alternatives of proposed modifications (cut and widening) of the adjacent slopes, and analyzed the stability of alternative retaining wall designs.

S.R. 3016, Section B02, Green Garden Road Bridge Replacement and Green Garden Road Realignment, Beaver County, PA, Pennsylvania Department of Transportation, District 11-0. Geotechnical Engineer responsible for slope stability analyses of embankment fill slopes and retaining walls, and for a settlement analysis of embankment fill into wetlands, as part of a roadway alignment and bridge replacement project.

S.R. 3088, Section A01, Hookstown Grade Road Bridge, Allegheny County, PA, Pennsylvania Department of Transportation, District 11-0. Geotechnical Engineer assisting with the technical preparation of a final geotechnical engineering report (GER) of a ten-meter-long single-span adjacent box beam bridge to replace a

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Geotechnical Engineer

deteriorated single-span bridge. The project involved subsurface investigation, laboratory testing, bearing capacity and settlement evaluation, footing elevation determination, approach slope configuration, and rock-lined channel design for stream relocations.

Structural Stabilization and Rehabilitation Grouting Program, United States Postal Service Eastpointe Facility, Clarksburg, WV, United States Postal Service (USPS)/Advanced Construction Techniques, Ltd. (ACT). Resident Quality Control Engineer responsible for inspecting and monitoring on-site construction activities for a single-story structure used as a mail transfer facility and post office. The structure had experienced distress and damage due to the differential settlement of the foundation material (strip mine spoil material). The stabilization program consisted of the construction of four shotcrete vertical access shafts (20 feet in diameter by 25 feet deep) along the outside of the structure, the horizontal installation of sleeve pipes from the vertical access shafts at various depths under the structure by means of a hydraulic jacking/drilling unit, and compensation pressure grouting (soil-fracture grouting) through an inflatable double-packer unit. Attended construction progress meetings with the contractor (ACT), the USPS, and the project design engineering firm. Monitored and inspected the following activities:

- Construction of the vertical access shafts.
- Horizontal jacking of the sleeve pipes, the jacking pressures, times and sounds for each section of pipe, shoe elevation at prescribed points using a Geokon torpedo liquid-filled settlement profiler, and final length and the horizontal and vertical deviations of the sleeve pipe location using a Maxibor.
- Compensation grouting operation, grout mixes, real-time computer monitoring and tracking of grouting pressures, volumes, grouting rate.
- Real-time computer monitoring and tracking of building movements (settlement and heave) during the jacking and grouting operations, with the use of column-mounted units or portable floor units, including Geokon fluid-filled settlement sensors.

Sinkhole Remediation, Bridgeport Wastewater Treatment Plant, Bridgeport, PA, Borough of Bridgeport. Geotechnical Engineer responsible for inspecting the drilling and installation of four new groundwater monitoring wells, and for assisting with the investigation of the causes of sinkhole formation at a wastewater treatment plant.

S.R. 0202 Improvement Project, Section 404, Chester and Montgomery Counties, PA, Pennsylvania Department of Transportation, District 5-0. Geotechnical Engineer responsible for the analysis of bridge foundation piles for down-drag and alternative design options for bitumen coating. Also designed a cased-bentonite mix around the pile in the zone of negative skin friction.

PI 125, Orms Street Bridge, Providence, RI, Amtrak. Geotechnical Engineer responsible for the 90 percent design and analysis of a jet grouting underpinning specification for the temporary support of a stone masonry retaining wall while lowering the tracks along the face of the wall.

S.R. 0309, Section 100, Montgomery County, PA, Pennsylvania Department of Transportation, District 6-0. Geotechnical Engineer for the widening and realignment of five miles of a four-lane expressway. New and replacement structures within the corridor included 18 bridges, 20 retaining walls, 4 noise walls, and 2 culverts located in five geological formations. These structures were analyzed using load and resistance factor design (LRFD) methodology. Specific project tasks included:

- Serving as Lead Inspector on multiple contracts, including roadway and structural borings. Oversaw multiple inspectors/multi-rig operations, performed field tracking of the progress of the contracts, and

CARL G. SELFRIDGE

Geotechnical Engineer

- acted as liaison between crews and the project manager. Also responsible for making general field decisions of hole location movement, hole termination, and other field problems for the other inspectors. Performed structural reconnaissance and investigated accessibility of the drilling equipment to the sites.
- Inspecting Geoprobe sampling and supervising the installation of monitoring wells for proposed constructed wetland sites. Characterized the soils by horizons, using the U.S. Department of Agriculture Soils Textural Classification, and the Munsell Soil Color Charts. Performed weekly monitoring of the wells and organized the data.
- Designing and analyzing an arch culvert foundation over Sandy Run and its adjoining roller-compacted concrete (RCC) wingwalls, based on the Load Resistance Factor Design (LRFD) method. Prepared an outline of the design for use on future foundation designs using the LRFD method.

S.R. 0222, Warren Street Bypass, Section 002, Berks County, PA, Pennsylvania Department of Transportation, District 5-0. Geotechnical Engineer responsible for conducting technical reviews and preparing comments for District 5-0 on geotechnical reports submitted by the design consultants.

PI 125, Crib Wall at Mineral Springs Avenue, Pawtucket, RI, Amtrak. Geotechnical Engineer responsible for assisting in the evaluation of alternatives for supporting a crib wall structure during the lowering of the tracks along its face.

PI 126, Track 4 Extension, Attleboro, MA, Amtrak. Geotechnical Engineer responsible for the evaluation and analysis of consolidation settlement of a peat layer in the evaluation of the peat to support the proposed new track. Performed global stability analysis of the tracks over the peat layer.

Instrumentation Monitoring, Northern Solid Waste Management Center B 2 at Cherry Island, Wilmington, DE, Delaware Solid Waste Authority. Geotechnical Engineer assisting in the quarterly and monthly monitoring and maintenance of 300 geotechnical instruments at this landfill which is constructed on 70 feet of soft dredge spoils. Instrumentation includes settlement plates and the use of an inclinometer probe.

Longwood Gardens Service Road Underpass, Kennett Square, Chester County, PA, Longwood Gardens, Inc. Geotechnical Engineer responsible for performing site reconnaissance and the preparation of the reconnaissance soils and geological engineering report (RSGER) for a simple-span, prestressed concrete box beam bridge for S.R. 0926 over a proposed maintenance driveway.

S.R. 0202 Improvement Project, Section 400, Chester and Montgomery Counties, PA, Pennsylvania Department of Transportation (PennDOT), District 6-0. Geotechnical Engineer responsible for assisting with the evaluation and organization of hydrologic information used to evaluate stormwater runoff and its influence on groundwater infiltration at drainage structures and wetland areas. This information was part of an expert report used in litigation proceedings for PennDOT against a conservation group.

Liberty Street, Clinton, CT, Amtrak. Geotechnical Engineer responsible for drilling inspection and stability analysis of an existing road bridge abutment for the Amtrak Northeast Corridor High-Speed Rail Improvement Project. The exploration included using borings, probes, and test pits to obtain the properties and profiles of the abutment and its surrounding geology. Analyzed the effects that undercutting the adjacent track would have on the abutment's stability; prepared a report.

Buttonball Road, Old Lyme, CT, Amtrak. Geotechnical Engineer responsible for drilling inspection and stability analysis of an existing bridge abutment for the Amtrak Northeast Corridor High-Speed Rail Improvement Project. Exploration techniques included borings, probes, and test pits to obtain the properties and profiles of the abutment and its surrounding geology.

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Geotechnical Engineer

Lake Road, East Haven, CT, Amtrak. Geotechnical Engineer responsible for drilling inspection and stability analysis of the existing road bridge abutment for the Amtrak Northeast Corridor High-Speed Rail Improvement Project. Employed exploration methods including borings, probes, rock coring, and test pits to obtain the properties and profiles of the abutment and its surrounding geology. Analyzed what effects undercutting the adjacent track would have on the abutment's stability; prepared a report.

Ferry Street, New Haven, CT, Amtrak. Geotechnical Engineer responsible for drilling inspection and stability analysis of an existing road bridge abutment for the Amtrak Northeast Corridor High-Speed Rail Improvement Project. Obtained the properties and profiles of the abutment and its surrounding geology through the use of borings, probes, and test pits. Analyzed effects of undercutting the adjacent track on the abutment's stability; prepared report.

I-95, East Haven, CT, Amtrak. Geotechnical Engineer responsible for the geotechnical exploration of a bridge pier for the Amtrak Northeast Corridor High-Speed Rail Improvement Project. Performed exploration using a test pit to obtain the profile of the pier in order to assess the effect of undercutting on the structure.

Rensselaer Polytechnic Institute, Troy, NY (1997-1998)

Prepared and demonstrated common geotechnical tests. Graded assignments, assisted students, and managed the grades

Smith Dairy Farm, Gansevoort, NY (1986-1997)

Maintained and operated farm machinery and equipment. Assisted with the daily operations of the dairy farm

Finch, Pruyn and Co., Inc., Glens Falls, NY (1989-1996)

Safety-inspection during paper machine rebuilds and maintenance work, bleach plant lab technician and performed various other technical and non-technical duties in various department in the mill.

PUBLICATIONS

Evaluation of Frost Penetration Using a Two Parameter Measurement System., J.D. Quiroz, T.F. Zimmie, C.G. Selfridge. Presented at the International Symposium on High Altitude and Sensitive Ecological Environmental Geotechnology, China. August 1999.

King's Covered Bridge Restoration., S.H. Petro, E.L. Kemp, C.G. Selfridge, C.E. Stonebraker, Gannett Fleming, Inc., Morgantown, WV, and W. Collins, Simone Collins, Berwyn, PA., International Bridge Conference 2006 (IBC-06-65)

COMPUTER SOFTWARE:

HEC-1, HEC-RAS, Haestad's FlowMaster and CulvertMaster, MathCad, MS Word, Excel, AutoCAD, Microstation, Slope/W, SEEP/W, GRLWEAP, L-PILE, COM624P, Logdraft, STABLE, PA-STABLE, Maple, FORTRAN, C

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, The GEO-Institute, Timber Framers Guild, Construction Institute (ASCE)

TIMOTHY A. DARRAH

Civil Site and Survey Department Manager

Expertise

Mr. Darrah is presently responsible for department management for civil site design and surveying services. Mr. Darrah also serves as project engineer on various types of civil engineering projects including residential and commercial developments, and reclamation design projects. Office work includes project management, reclamation and site designs, hydrology calculations, quantity calculations, and various other forms of engineering related duties.

Education

BSET (Civil) - Fairmont State College, Fairmont, West Virginia, 1988

Certifications

Rosgen Natural Stream Design (Level I)

West Virginia Department of Highways Concrete Technician

Fundamental Land Surveyor (FLS)

Experience

Surveying

- Morgantown Utility Board, Morgantown, West Virginia
- West Virginia University Football Field Renovations Morgantown, West Virginia
- Point Marion Lock And Dam, Point Marion, Pennsylvania
- Longview Power Station, Morgantown, West Virginia
- Chaplin Hill Business Park, Morgantown, West Virginia
- University Town Centre, Granville, West Virginia
- Ohio Route 250, Cadiz, Ohio
- Maryland Bureau of Mines, Frostburg, Maryland
- Cell Tower Sites, West Virginia, Pennsylvania and Ohio
- American Fiber Resources, Fairmont, West Virginia
- Ohio Department of Natural Resources Mine Reclamation, Ohio
- Mylan Park, Morgantown, West Virginia
- Harrison Power Station, Shinnston, West Virginia
- Valley View Apartments, Morgantown, West Virginia
- Numerous Hotels, Stores and Restaurants, West Virginia
- Genesis Healthcare, Morgantown, West Virginia
- Guardian Food Corporation, West Virginia and Ohio

TIMOTHY A. DARRAH

Civil Site and Survey Department Manager

Utility Mapping and Design:

- United Center, Morgantown, West Virginia
- WVDEP Water Feasibility Studies, West Virginia
- MDBOM Pee Wee Hill Waterline Design, Kitzmiller, Maryland
- West Virginia University Hospital, Morgantown, West Virginia
- Harvest Ridge Development, Morgantown, West Virginia
- Chaplin Hill Business Park, Morgantown, West Virginia
- The District Student Apartments, Morgantown, West Virginia
- Morgantown Utility Board, Morgantown, West Virginia
- Town of Star City, Star City, West Virginia
- Monongahela Soil Conservation, Morgantown, West Virginia
- BOJAN Development, Morgantown, West Virginia
- Walgreens, Morgantown, West Virginia
- Sterling Ridge Apartments, Morgantown, West Virginia

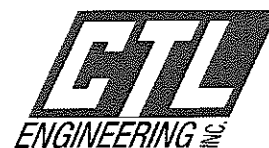


RELEVANT PROJECT EXPERIENCE



Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



RELEVANT EXPERIENCE

Overall Experience

CTL Engineering will provide all of the services from our office located in South Charleston, West Virginia. We have provided services similar to those required for a significant number of projects throughout West Virginia and Ohio. Our engineers have experience dealing with the many challenging soil and construction conditions that are common in West Virginia, Ohio.

Attached are Project Experience Profiles that further illustrate our experience. These profiles include the WVANG FWAATS Facility, Bridgeport, WV; US Army National Guard Readiness Center, Summerville, WV; WVU Hospital – Health Sciences, Morgantown, WV; Student Recreation Center, Morgantown, WV; Sheridan Boulevard & 136th Avenue, Meadow View Parkway and West 60th Avenue in Colorado.

PROJECT EXPERIENCE PROFILE

Project:

FWAATS Facility Hanger Slab Repair

Client:

West Virginia Air National Guard

Location:

Bridgeport, WV



PROJECT FEATURES

CTL Engineering of WV, Inc. was responsible for performing a subsurface investigation and laboratory testing program associated with the design, removal and replacement of the FWAATS Facility Hanger concrete slab in Bridgeport, West Virginia.



Owner:

WV Air National Guard
1707 Coonskin Drive
Charleston, WV 25311
Jonathan L. Neal
(304) 561-6550

Project Completion:

Ongoing

PROJECT EXPERIENCE PROFILE

Project:

US Army National Guard Readiness Center

Client:

Capital Engineering, Inc.

Location:

Summersville, WV



PROJECT FEATURES

CTL Engineering of WV, Inc. was responsible for performing a subsurface investigation and laboratory testing program associated with the construction of a proposed 40,000 square foot US Army National Guard Readiness Center and associated parking areas in Summersville, West Virginia. The geotechnical report included a summary of the drilling and laboratory testing performed as well as guidance related to the proposed foundation types and allowable bearing capacities, pavement section designs, and possible construction issues.

Owner:

Capital Engineering
Mr. Robert Fuller
(304) 344-0720

Project Completion:

March, 2002



PROJECT EXPERIENCE PROFILE

Project:

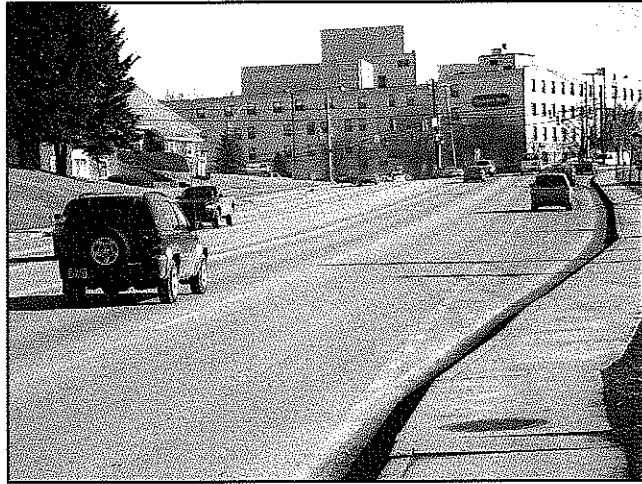
West Virginia University Hospitals

Owner:

West Virginia University

Location:

Morgantown, West Virginia



PROJECT FEATURES

CTL Engineering, Inc. has broad experience in providing; surveying, geotechnical investigations, road & parking area design, erosion and sedimentation control design and permitting, storm water design and permitting, construction inspection, retaining wall design and foundation recommendations for West Virginia University Hospitals. Current projects include Blanchette Rockefeller Neurosciences Institute (BRNI), and the expansion of the Health Sciences Parking Areas.

CTL has recently provided roadway design, surveying and stormwater design and permitting for the upgrading of West Virginia Department of Highway's intersection of Elmer Prince Drive and VanVoorhis Road. The project entailed designing a 500' turning lane to connect to a four lane road design of Elmer Prince Drive and the design and permitting of a church entrance as part of the intersection. The project was coordinated with the WV DOH, WVU Hospital, WVU, Morgantown Utility Board (MUB), and the City of Morgantown.

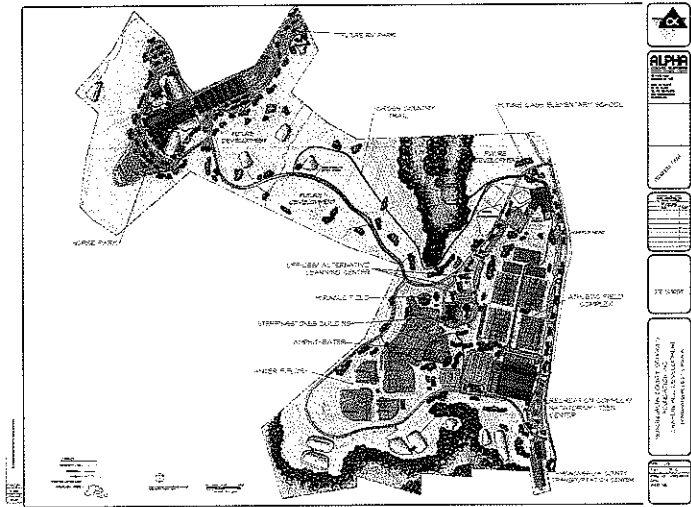


PROJECT EXPERIENCE PROFILE

Project:
Mylan Park Recreational Complex

Owner:
Monongalia County Schools
Foundation

Location:
Morgantown, West Virginia



Master plan and rendering completed by Alpha Associates

PROJECT FEATURES

This project was a concerted effort between several interest groups and local developers, all with a common goal of creating a “multi-use” recreational complex for the use and benefit of the local and surrounding communities.

CTL Engineering provided a full range of services throughout the planning, design, and construction of the complex. This included surveying, geotechnical investigations and drilling, environmental investigations, design and construction monitoring and testing. CTL was also involved in the planning and development of the infrastructure brought to the area to serve the complex, which included construction of a 40,000 gallon water storage tank and the installation of approximately 4.0 miles of sanitary collection and potable water systems.

The complex, built largely on previously surface mined and deep mined properties, now boasts numerous activity fields, such as, baseball, softball, soccer, football and a first-of-its-kind Special Olympic field that offers a unique protective surface to accommodate handicap persons and special Olympians. Also included within the complex, is an equestrian center and a full service commercial/business park facility.

Client: Monongalia County
Schools Foundation

Project Completion: On-going

Contact: Mark Nesselroad



PROJECT EXPERIENCE PROFILE

Project:

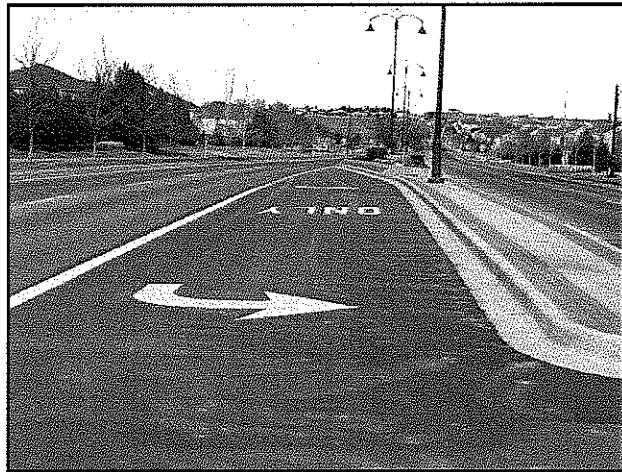
Sheridan Boulevard and 136th
Avenue, Broomfield, Colorado

Client:

City and County of Broomfield, CO
Holiday Retirement

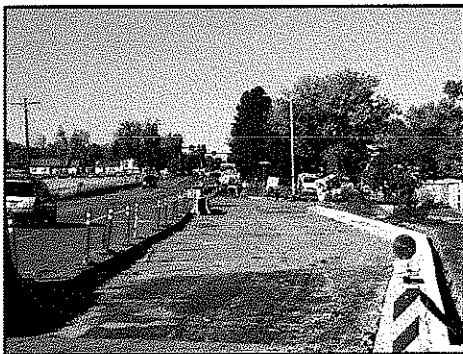
Location:

City and County of Broomfield,
Colorado



PROJECT FEATURES

Design of Sheridan Boulevard and 136th Avenue including planning, zoning, road design, intersection design, grading, utility design, drainage design and construction administration for a major arterial and collector street.



Owner:

City and County of
Broomfield, CO
Broomfield, CO 80020
Burt Knight
(303 469-3301)

Project Completion:
2008

PROJECT EXPERIENCE PROFILE

Project:

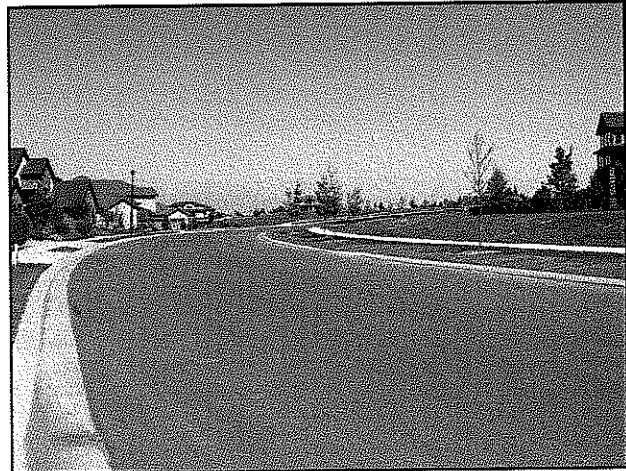
Meadow View Parkway
Erie, Colorado

Client:

Town of Erie, CO
Boulder Valley Investments

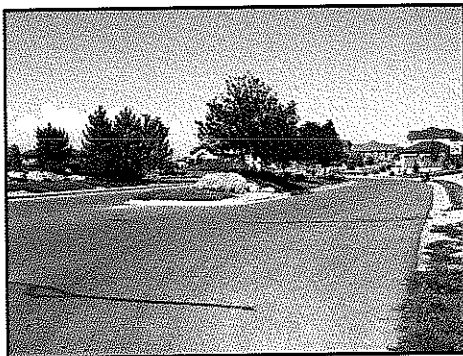
Location:

Town of Erie, Colorado



PROJECT FEATURES

Design/build of Meadow View Parkway a collector street including planning, zoning, road design, intersection design, landscape design, grading, utility design, drainage design and construction management for this collector street to serve a regional Town Park and an upscale subdivision.



Owner:

Town of Erie, CO
100 Jefferson Parkway
Golden, CO 80419
Gene Bennetts
(303) 271-8487

Project Completion:

2006

PROJECT EXPERIENCE PROFILE

Project:

West 60th Avenue
Golden, Colorado

Client:

Jefferson County, CO
Ryland Homes

Location:

Town of Erie, Colorado



PROJECT FEATURES

Design/build of West 60th Avenue a major collector street including planning, zoning, road design, intersection design, landscape design, grading, utility design, drainage design and construction management for this collector street servicing three major subdivisions for development.



Owner:

Jefferson County, CO
100 Jefferson Parkway
Golden, CO 80419
Gene Bennetts
(303) 271-8487

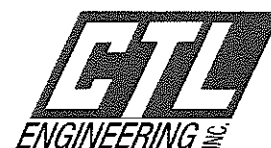
Project Completion:
2006

HISTORY AND SERVICES



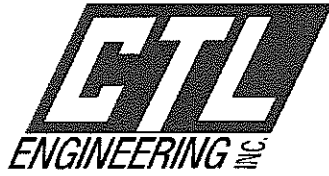
Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



CTL Engineering of West Virginia, Inc.

An Employee Owned Company

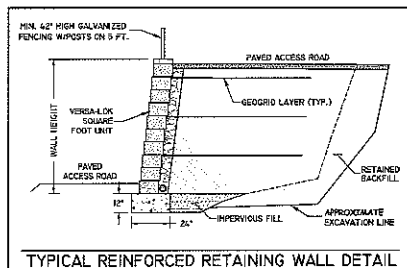


CTL Engineering of West Virginia, Inc. (CTL WV) is a full service consulting civil & geotechnical engineering, drilling, materials testing and construction observation service company. **CTL WV** was founded in 1983 to provide regional service to West Virginia, Maryland and Pennsylvania. **CTL WV** is part of CTL Engineering, Inc. formerly known as Columbus Testing Laboratory, which was established in Columbus, Ohio in 1927 as an independent engineering testing laboratory serving the local community. Since 1927 our expertise has focused mainly on foundation engineering, construction testing and inspection services.

CTL WV has a state wide staff of over 50 people; including **licensed professional engineers, licensed land surveyors, environmental scientists, geologists and certified engineering technicians.** Nationwide CTL Engineering sustains a staff of over 220 employees, providing additional professional expertise as well as staff and equipment resources for meeting project needs and goals.



Over our 27 years in West Virginia, **CTL WV** has provided numerous civil site designs, geotechnical designs, stormwater plans and surveys for commercial and residential developments and roadway projects. We have successfully prepared State and Federal 401 and 404 Permit submittals, Ms4 Phase II stormwater permits and conducted Environmental Site Assessments. **CTL WV** also has significant experience working on mining related projects including mine plans and permitting, mine refuse reclamation and subsidence evaluations and investigation. These projects were completed by conscientious interaction with Architects, Engineers, State and Federal Agencies and Owners.



CTL WV has certified engineering and laboratory technicians providing material testing and construction observation services. Our Charleston laboratory has been validated by the U.S. Army Corps of Engineers since 2002 and both our Morgantown and Charleston labs are annually inspected by the West Virginia Division of Highways.

CTL WV maintains a fleet of four drill rigs including truck, rubberized track and ATV mounted. Our crews have experience in steep terrain and barge drilling and deep boring exploration to depths greater than 300 feet. Additionally, CTL Engineering has a total of nine drills allowing CTL to place multiple rigs on one site, if project schedule demands.



Additional services provided by CTL include Ground Penetration Radar, GIS mapping, ALTA surveys, GPS surveys, Nondestructive Testing and Inspection, Forensic Science, Accident Re-Construction, Roof Consulting, Building Envelope Testing, Product Testing, Analytical Laboratories, Metallurgy Services, Security and Safety Systems and Telecommunication Services.



Professional Services

Established 1927

Analytical Chemistry

- Metals
- Organics
- Soil and Water
- Oils and Sludge
- Liquid and Solid Fuels
- Construction Materials
- Solid & Hazardous Wastes

Computer Technology

- Drafting Services
 - AutoCad
 - Digitizing
 - Microstation
- Software Development
 - Internet & Intranet
 - Application Software

Construction Administration

- ODOT LPA Projects
- County & Municipal Projects
- Daily On-Site Inspections
- Owner's Representative

Construction Monitoring

- Floor Flatness
- Soils, Concrete, Asphalt, Masonry, Fireproofing, and Steel
- Earth and Concrete Dams
- Pavement for Streets and Airports
- Pre and Post Construction Inspection
- Embankments, Fill, and Cut

Environmental

- Asbestos Survey
- Site Remediation
- Permit Preparation
- Wetlands Mitigation, Permitting & Delineation
- Wellhead Protection
- Abatement Monitoring
- Site Abandonment and Closure Planning
- Hydrogeologic Studies and Aquifer Characterization
- Underground Storage Tank Management

Existing Structure Evaluation

- Delamination Determination
- Bridges/Buildings
- Sonic Velocity Testing
- Half Cell Potential Tests

Forensic Science

- Roofing Failures
- Building Failures
- Legal Testimony
- Product Liability Investigations
- Landslide, Soil and Foundation Failures
- Accident Reconstruction

Geotechnical

- Site Selection
- Pavement Design (including CBR Study)
- Foundation Analysis & Design
- Embankment & Earth Dam Analysis
- Slope Stability Analysis
- Subsurface Exploration – Drilling Services

Ground Penetrating Radar

- Concrete Inspection & Evaluation
- Bridge Inspection
- Utility Detection & Mapping

Materials Testing

- Concrete
- Aggregates
- Soils and Rock
- Clay and Masonry Products
- Bituminous Materials
- Petrographic Studies
- Concrete & Asphalt Mix Designs

Metallurgy

- Metallography
- Failure Analysis
- Fracture Analysis
- Corrosion Studies
- Tensile and Hardness Application Recommendations

Mining Engineering

- Mine Plan Design
- Permit Preparation
- Refuse Disposal Design
- Mine Reclamation Design
- Environmental Monitoring
- Subsidence Investigations
- Drainage Control Structures

Nondestructive Testing & Inspection

- Level II Services
- Ultrasonic Inspections
- Liquid Penetrant Inspection
- Magnetic Particle Inspection

Pavement Management

- Budgeting
- Prioritization
- Deterioration Rates
- Condition Assessment
- Maintenance & Rehabilitation Strategies
- Network Needs & Long Range Goals

Product Testing

- Calibration
- Design Analysis
- Safety Evaluation
- Hydrostatic Testing
- Mechanical and Physical Property Testing
- Load and Strength Testing

Roofing Engineering

- Infrared & Nuclear Testing
- Quality Control
- Roof Surveys Evaluation
- Design & Construction Administration

Roof Management System

- Budgeting
- Prioritization
- Deterioration Rates
- Condition Assessment
- Maintenance & Rehabilitation Strategies
- Network Needs & Long Range Goals

Security & Safety Systems

- Design
- Construction
- Paging Systems
- Video Surveillance
- Intrusion Detection
- Card Access Control
- Audio Visual Solutions
- Digital Video Recording

Site/Civil Engineering

- Commercial Land Development
- Infrastructure Planning
- Residential/Community Planning

Surveying & Mapping

- Topographic Mapping Development
- Property Surveying & Boundary Determination
- Global Positioning System

Telecommunication Services

- Design
- Construction
- Existing Structure Analysis and Maintenance
- Lighting Systems
- Inventory and Warehousing

Welding & Quality Control

- QA/QC Programs
- Certified Welding Inspection
- Welding/Brazing Qualification
- Procedure Development

OFFICES:

2860 Fisher Road
Columbus, Ohio 43204
Phone: (614) 276-8123
Fax: (614) 276-6377

3085 Interstate Parkway
Brunswick, OH 44212
Phone: (330) 220-8900
Fax: (330) 220-8944

102 Commerce Dr.
Wapakoneta, OH 45895
Phone: (419) 738-1447
Fax: (419) 738-7670

633 High Street
Minford, OH 45653
Phone: (740) 820-8355
Fax: (740) 820-5698

422 Wards Corner Rd, Suite E
Loveland, OH 45140
Phone: (513) 722-8665
Fax: (513) 722-8669

3 Saguaro Trail
Indianapolis, IN 46268
Phone: (317) 295-8650
Fax: (317) 295-8395

3902 New Vision Drive
Fort Wayne, IN 46845
Phone: (260) 482-4503
Fax: (260) 482-2002

733 Fairmont Road
Morgantown, WV 26501
Phone: (304) 292-1135
Fax: (304) 296-9302

510 C Street
So. Charleston, WV 25303
Phone: (304) 746-1140
Fax: (304) 746-1143

Sachina Engineering
407 "B" Block
SNS Arcade, Airport Rd
Bangalore, India 560017
011-91-80-526-8615

www.ctleng.com

Services Include:

- ◆ Commercial Land Development
- ◆ Residential / Community Planning
- ◆ Infrastructure Planning & Design
- ◆ Pavement Design and Management
- ◆ Conceptual Designs / Presentations
- ◆ Recreational Resort / Facility Planning
- ◆ Erosion & Sediment Control Design
- ◆ Storm Water Management Systems
- ◆ Preliminary Cost Estimates / Feasibility Analyses



CTL Engineering's in-house staff provides a full array of services, with support from our Site/Civil Department, including mapping and surveying services.

From a Raw Piece of Property -- CTL Engineering Provides Full Site Layout Design

- ◆ Topographic Mapping Development
- ◆ Global Positioning Systems (GPS) Services
- ◆ Aerial Mapping Layout & Control
- ◆ Construction Layout
- ◆ Wetlands Delineation / Flood Plain Determination & Certification
- ◆ Property Survey & Boundary Determination
- ◆ Micrometer Leveling





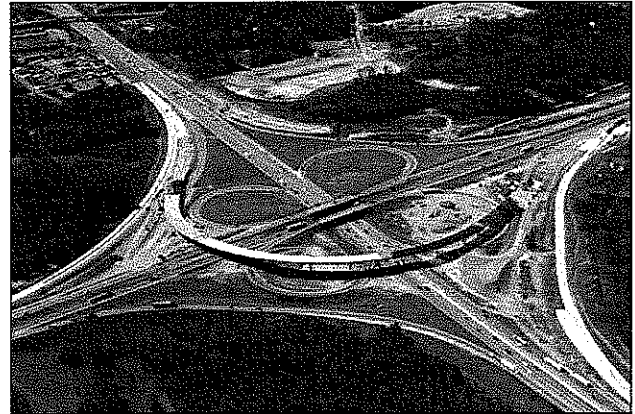
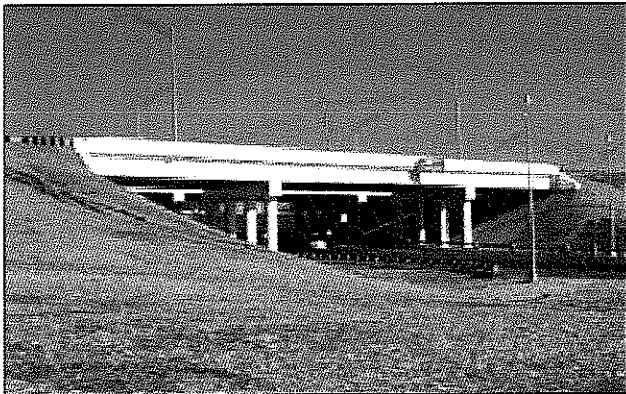
Construction Administration & Daily On-Site Inspection

Federal, State, and Locally funded Construction Projects require a high level of administration and quality control to meet the project's demands. The Counties and Municipalities, through ODOT's LPA Program, as well as private Owners, Developers, and Contractors have selected CTL Engineering for Construction Administration, knowing that we have the experienced staff to be accurate, dependable, and perform these services in a timely manner. Our experienced engineers, inspectors, and technicians are your partners in construction. We help in completing these projects successfully and meeting the specific project requirements.

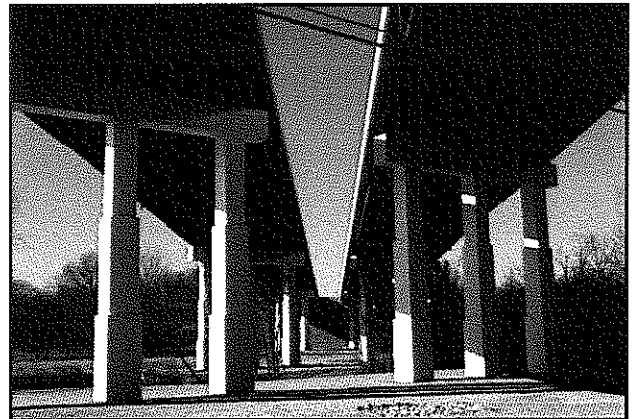
CTL Engineering provides the following Construction Administration Services:

- ♦ **Conduct Pre-Construction Conference**
- ♦ **Project Team Coordination**
- ♦ **Field Reports & Construction Documents' Administration**
- ♦ **Field Engineering and Inspections**
- ♦ **Material Certification and Shop Drawing Reviews**
- ♦ **Progress Meetings and Schedule Tracking**
- ♦ **Payments and Reimbursements**
- ♦ **Change Order Reviews**
- ♦ **Prevailing Wage Compliance**
- ♦ **EEO/DBE Contract Requirements**
- ♦ **Project Closeout Activities**

CTL Engineering not only provides Construction Administration services, but as a complete package, we also provide in-house testing services, such as concrete, asphalt, and sub-grade compaction, as well as daily On-Site Inspection services.

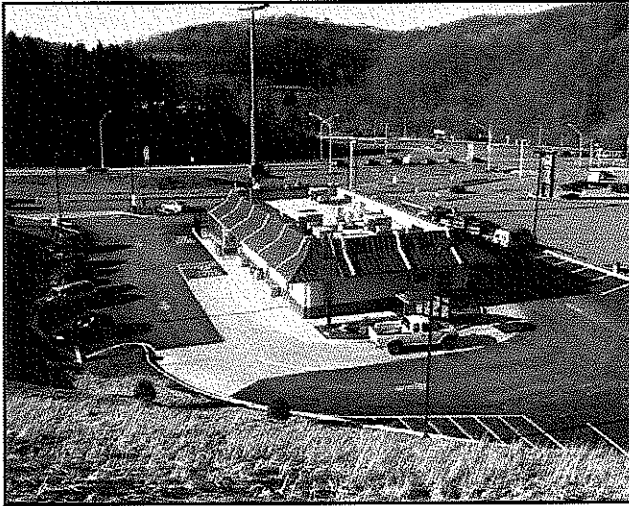


CTL Engineering has qualified construction inspectors with the capabilities to observe and inspect your construction project, and to complete the necessary daily documentation required by the Federal, State, and Local funding agencies participating in the project.



CTL Engineering's On-Site Inspector provides and/or participates in the following Daily On-Site Inspection Services:

- ♦ **Pre-Construction Conference**
- ♦ **Prepare Field Inspection & Quantities Reports**
- ♦ **Prepare Construction Documentation & provide to Construction Administrator**
- ♦ **Field Engineering in conjunction with Construction Administrator**
- ♦ **Observe & verify materials being used for the project**
- ♦ **Observe, identify and notify Construction Administrator of deficiencies**
- ♦ **Provide Construction Administrator with monthly quantities for payment preparation**
- ♦ **Material Testing, i.e., compaction, concrete, asphalt, etc.**



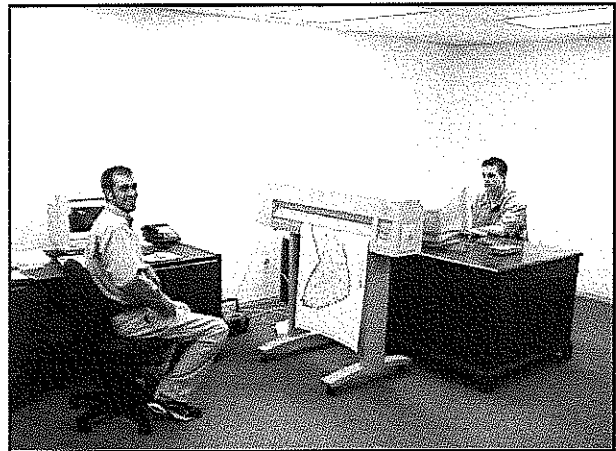
CTL Engineering maintains a full service, in-house survey and mapping team, which has extensive experience in performing most common surveying needs.

CTL Engineering has the professional staff and the latest equipment to support (3) full survey crews, including a Global Positioning System (GPS), which gives us an added dimension to our surveying and mapping capabilities.

We have performed surveying and mapping on many of our civil/site projects and have supplied construction stakeout and monitoring for many of our clients.

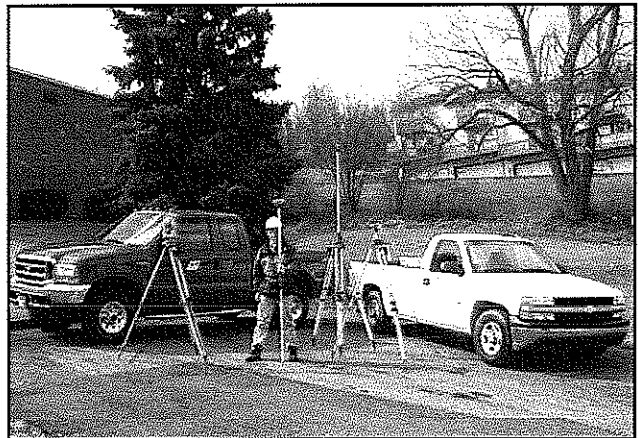
Professional Services:

- ◆ Property Surveying and Boundary Determination
- ◆ Topographic Mapping Development
- ◆ Aerial Mapping Layout and Control
- ◆ Global Positioning System (GPS)
- ◆ Construction Layout
- ◆ Settlement Plate Monitoring
- ◆ Micrometer Leveling
- ◆ Flood Plain Determination and Certification
- ◆ Wetland Delineations



Project Synopsis:

- ◆ Residential Subdivision Layout
- ◆ Commercial Development Layout
- ◆ Access Road and Parking Lot Layout
- ◆ Bridge Construction Layout and Monitoring
- ◆ Elevation Certificates (FEMA)
- ◆ Property Survey Projects
- ◆ Storm Water Surveillance Mapping
- ◆ Water Body Sounding Studies





Geotechnical Engineering

CTL Engineering's Geotechnical Department routinely performs subsurface investigations and soil and rock testing. We prepare engineering reports, make recommendations regarding foundation and construction techniques, and perform other geotechnical services, as dictated by a given project.

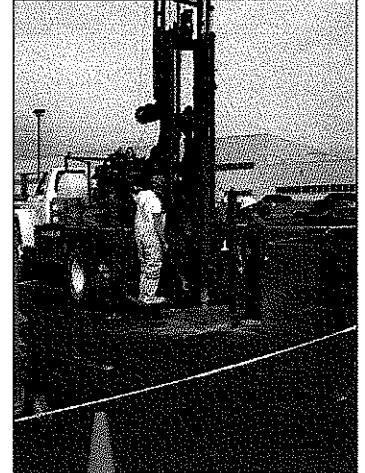
Drilling Services

CTL Engineering owns and operates its own fleet of drill rigs, the largest of which has a capacity to drill and take samples up to 300 feet deep. Our rigs are equipped with large diameter soil and rock core samplers, *in-situ* pressure meters, and cone penetrometers. These rotary drilling rigs conduct standard split- spoon sampling.

Our drill rigs have pumps, wireline, and standard coring equipment for proper and efficient execution of subsurface investigations. We can perform pressure meter tests and vane shear tests in the field, in addition to conducting and/or monitoring of well pump tests.



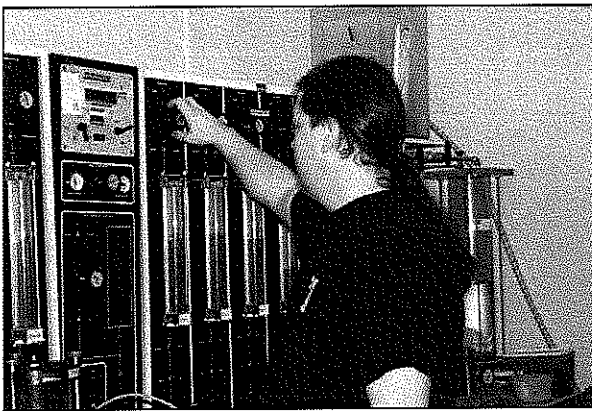
Drilling in Rugged Terrain



Drilling on Flat Terrain

Service Listing

- ◆ Complete Subsurface Exploration Study
- ◆ Foundation Analysis
- ◆ Pile, Pier, and Caisson Analysis & Inspection
- ◆ Embankment & Earth Dam Analysis
- ◆ Slope Stability Analysis
- ◆ Settlement Analysis
- ◆ Pavement Design
- ◆ Rock & Mineral Testing
- ◆ Hydrogeologic Studies
- ◆ Field and Laboratory Testing of Soils
- ◆ Legal Testimony
- ◆ Dynamic Pile Testing

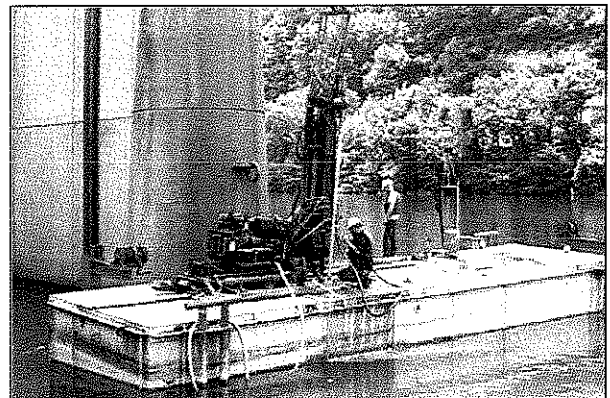


Triaxial & Permeability Testing

Analytical Laboratory

Our Soils Laboratory has consolidometers, triaxial and direct shear apparatus, state-of-the-art permeability devices, and standard soils classification equipment.

CTL Engineering provides a detailed analysis of the surface and subsurface composition and chemistry of the soils at the proposed site. For existing structures, we provide a foundation analysis. We also provide services for structures under construction.



Barge Drilling



Construction Services Structural Tests and Special Inspections

CTL has a solid working knowledge of the Ohio Building Code with respect to Chapter 17, Structural Tests and Special Inspections. We routinely perform these services on many building construction projects. We also communicate regularly with key officials of the Division of Industrial Compliance, Board of Building Standards and Bureau of Building Code Compliance regarding the specific implementation and enforcement requirements of the Code.

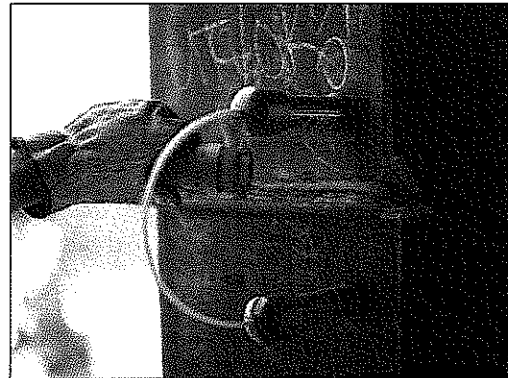
A project's construction phase requires reliable testing and inspection services. Building owners, architects, engineers, and contractors choose CTL Engineering for this work, knowing that we are accurate, dependable, and perform our services in a timely manner.

CTL Engineering provides testing and inspection of the following

- ♦ **Sitework**
- ♦ **Foundations**
- ♦ **Reinforced Concrete**
- ♦ **Structural Steel**
- ♦ **Masonry**
- ♦ **Sprayed-on Fire Proofing**
- ♦ **Roofing Systems**
- ♦ **Single & Multi-Story Building Structures**
- ♦ **Bituminous & Portland Cement Concrete Paving**
- ♦ **Highway and Airport Pavements**
- ♦ **Parking Garages & Bridges**
- ♦ **Water & Wastewater Treatment Facilities & Associated Piping Systems**

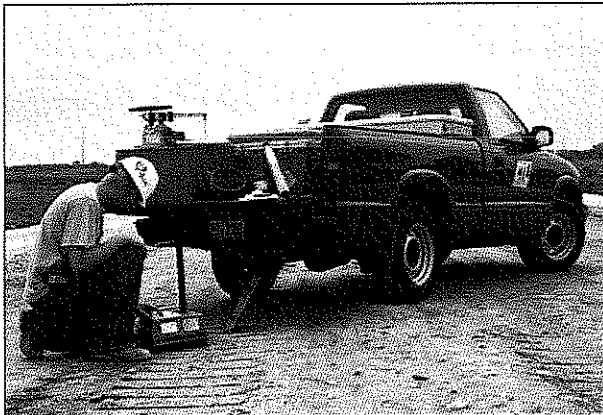


CTL Engineering examines existing structures to evaluate potential problems. Failed structures are analyzed to determine the cause and extent of damage. We evaluate structural integrity during initial construction and at regular intervals after completion. CTL Engineering routinely evaluates metal and concrete pipes.



We perform audio/video surveys, sonic velocity testing, x-ray examinations, half-cell potential, and other destructive and nondestructive tests. CTL Engineering's technicians maintain the following certifications and/or training:

- ♦ **ACI (American Concrete Institute) Level I**
- ♦ **NICET Certification, Level I, II, III or IV**
- ♦ **Hazardous Materials Certification**
- ♦ **Confined Space Entry Training**
- ♦ **Radiation Safety Training**
- ♦ **WVDOT, ODOT, and NCDOT Certification**



CTL Engineering has been providing Environmental Services since 1987 and has successfully completed over 3,000 projects of varying complexities. Our years of experience have made us aware of the regulatory and technical challenges businesses face when environmental issues arise. Our clients have come to appreciate our ability to balance environmental requirements while maintaining project feasibility and continuity. With multiple office locations and a staff of geologists, environmental scientists, wetland scientists and engineers, we can provide a diverse range of environmental services to both local and regional clients. Whether our clients need a Phase I Site Assessment or a full-scale remediation project, CTL Engineering's Environmental Department is the single source for your environmental needs.

Real Estate/Banking Services

- ◆ Phase I and II ESA's
- ◆ Transaction Screenings
- ◆ FCC/NEPA Reviews
- ◆ NEPA Section 106 Reviews

Building Evaluation Services

- ◆ Asbestos Hazard Evaluations
- ◆ Asbestos Abatement Monitoring
- ◆ Lead-Based Paint Surveys
- ◆ Mold and Indoor Air Quality Assessments

Wetland Services

- ◆ Wetlands Assessments
- ◆ Wetlands & Jurisdictional Waters of the State Delineation
- ◆ Wetland Permitting & Mitigation

Landfill

- ◆ Site Characterizations
- ◆ Explosive Gas Monitoring
- ◆ Liner and Cover Design
- ◆ Leachate Sampling & Testing
- ◆ Cell Design

Underground Storage Tank Services

- ◆ UST Removal & Closure
- ◆ BUSTR Tier 1, Tier 2 and Tier 3 Evaluations
- ◆ Remedial Investigations and Corrective Actions

Hydrogeologic Services

- ◆ Soil Borings & Subsurface Evaluations
- ◆ Ground Water Investigations
- ◆ Monitoring Well Installation
- ◆ Soil & Ground Water Remediation
- ◆ Groundwater Mapping/ Modeling
- ◆ Storm Water Pollution Prevention Plans

Environmental Permitting

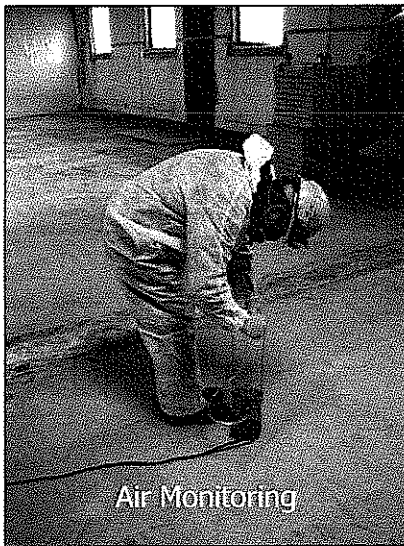
- ◆ NPDES Permitting Support
- ◆ Solid-Waste Landfill Permitting
- ◆ Construction Demolition and Debris Landfill Licensing
- ◆ Permit to Install/Operate (PTI & PRO)

Management Services

- ◆ Hazardous & Non-Hazardous Waste Disposal
- ◆ Air, Water and Hazardous Waste Permitting
- ◆ Spill/ Discharge Response Plans
- ◆ Effluent Sampling & Analysis
- ◆ RCRA Planning and Closure
- ◆ Spill Prevention Control & Countermeasure Plans (SPCC)

Utilities Engineering

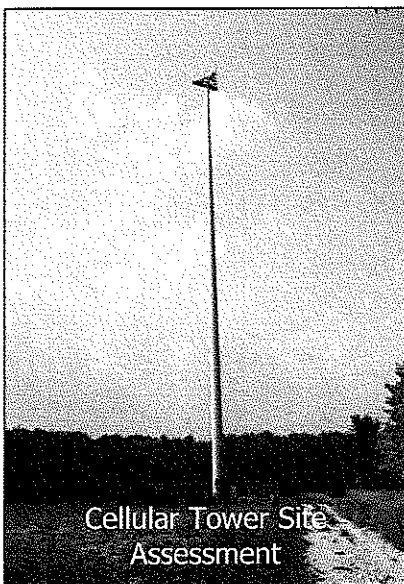
- ◆ Storm Water Assessments
- ◆ Sewer Evaluations
- ◆ CSO Long-term Control Plans



Air Monitoring



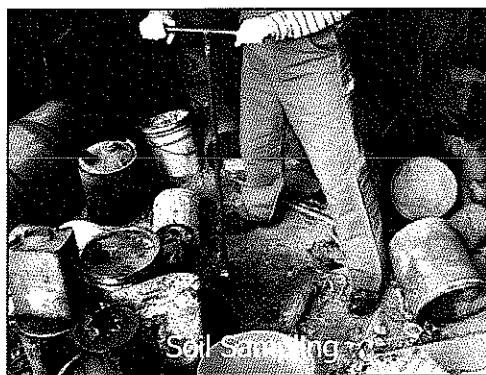
Friable Asbestos
Pipe Insulation



Cellular Tower Site
Assessment



Effluent Water Quality



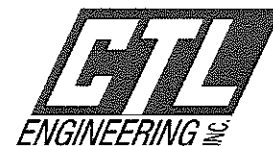
Soil Sampling

REFERENCES



Expression of Interest for Engineering Services

Charleston Complex Access
Road and Utility Upgrades



REFERENCES

Listed below are five specific references that we have worked with over the last several years that can testify to the experience and qualifications of the proposed project team.

West Virginia Air National Guard

Charleston, West Virginia

Jonathan L. Neal

(304) 561 - 6550

Capital Engineering, Inc.

Summersville, West Virginia

Robert Fuller

(304) 344 - 0720

Monongalia County Schools Foundation

Morgantown, West Virginia

Mark Nesselroad

(304) 983 - 8778

City and County of Broomfield, CO

Broomfield, Colorado

Burt Knight

(303) 469 - 3301

Town of Erie, CO

Golden, Colorado

Wendi Palmer

(303) 926 - 2875



RFQ No. DEFK11024

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: CTL ENGINEERING 510 C STREET S. CHARLESTON WV 25303

Authorized Signature: David E Moore Date: 1-25-11

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 23 day of January, 2011.

My Commission expires August 21, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC Christina D. Flowers

