



EXPRESSION OF INTEREST

**Engineering Services North Bend State Park
Cokley Branch Campground Improvements**

Solicitation No. CEOI 0310 DNR 1900000011

May 21, 2019

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WV PURCHASING
DIVISION





EXPRESSION OF INTEREST

Engineering Services

Monongahela Conservation District

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SECTION 1

EXPRESSION OF INTEREST



May 21, 2019

West Virginia Department of Natural Resources (WV DNR)
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Re: *Expression of Interest (EOI)*
North Bend State Park
Cokley Branch Campground Improvements
Solicitation No. CEOI 0310 DNR190000011

Dear WV DNR Officials:

CTL Engineering of West Virginia, Inc. is pleased to respond to the request for **Expressions of Interest (EOI)** to provide engineering services as announced by Solicitation No. CEOI 0310 DNR190000011 dated April 22, 2019 as requested by the **West Virginia, Department of Natural Resources (WV DNR)**. According to the announcement, the proposed project will consist of Extending Sewer to twenty-eight (28) existing camp sites and twelve (12) planned campsites at Cokley Branch Campground as well as construct twelve (12) floating dock slips and connecting dock on the lake adjacent to the campground. The sewage system extension will include gravity collection system, pump station, and a force main to collect to existing sewer. The planned improvements may also include any other work necessary for, or related to, the park facilities, as well as any other necessary ancillary work; all located in North Bend State Park in Ritchie County, West Virginia. Services to be rendered will include Review of Existing Plans and Conditions, Provide Necessary Services to Design the Facilities within Project Budget, and Provide Construction Administration Services.

CTL Engineering has been providing professional engineering services to government, industry, contractors, developers and others since 1927. CTL is a broadly based professional consulting, engineering firm with complete civil site design and surveying services including construction administration, construction observation and quality control including our in-house analytical laboratory. Additional services CTL provides are geotechnical, and environmental. Our company presently employs over 200 individuals with expertise from Civil Site Design and Geotechnical Engineering to Environmental Remediation Planning. In our 80 year history, we have been directly involved with over 100,000 individual projects. We currently have several active contractual agreements with State Agencies in West Virginia, Maryland and Ohio with the same open-ended format you have outlined in the request for EOI.

CTL has a vast experience of providing civil engineering services to all levels of the public and private sector. The general engineering requirements in your request actually describe the areas of expertise and experience of CTL. CTL has provided designs and specifications for Municipal Utility Infrastructure Projects and Private Developments including Site Design Projects focusing on ADA Compliancy and Pedestrian Corridors.

CTL Engineering of West Virginia, Inc. office located in Morgantown, WV will have the primary responsibility for the engineering and administration aspects associated with this project. Our office is equipped and staffed to promptly and professionally perform all of the services to be provided in accordance with this EOI.

We are currently sub-contracted with the WV DNR regarding Cacapon State Park and Lodge with CTLs' task focusing on Civil Site Design and Geotechnical Recommendations for the Lodge including associated up-grades to the Existing Wastewater Treatment Plant and the Potable Water Treatment Plant modifications. We have designed Sanitary Sewer Infrastructure consisting of traditional gravity flow systems including sanitary sewer lift stations ranging from private developments to industrial developments including municipal systems as well. Our experience with pedestrian corridors and walk ways consist of ADA compliant walkways and ramps which can be easily manipulated and broaden to pedestrian access into ADA boat slips, ADA gangways and providing ADA docks and ADA fishing piers. CTL is also experienced with mobile home parks and layout which could be considered as enlarged camping trailer sites with all the issues with mobility, transport, and vehicular maneuvers including setup and utility hookups.


Specific details regarding our capabilities and experience for each phase of this project can be found throughout the various sections of this EOI. We will be happy to submit supplemental information pertaining to any portion of this proposal that may require clarification.

CTL takes great pride in our abilities to provide our clients with exceptional designs and innovative techniques to deal with the problems associated with the recreational areas and waters of West Virginia.

We sincerely appreciate the opportunity to respond to this request for Expression of Interest to the Monongahela Conservation District and we are looking forward to providing the professional support services required for the success of this program.

Respectfully submitted,
CTL Engineering of West Virginia, Inc.


Timothy Darrah
Civil Site Design and Survey
Department Manager
tdarrah@ctleng.com


Gregory L. Foreman, P.E.
Civil Site Design and Survey
Project Manager
gforeman@ctleng.com





Executive Summary

LEGAL NAME OF PROPOSER:
CTL ENGINEERING, INC.

OFFICE RESPONSIBLE FOR WORK:
1091 CHAPLIN ROAD
MORGANTOWN, WV 26501

TELEPHONE NUMBER:
PH. 304.292.1135

TYPE OF ENTITY:
Corporation

DUE DATE OF SUBMITTAL:
May 21, 2019

PROJECT MANAGER:
Timothy Darrah
tdarrah@ctleng.com

**CTL WAS BUILT ON THREE
FOUNDATIONAL PILLARS:**

COMMUNICATION

TEAMWORK

**LEADERSHIP IN
TECHNOLOGY**

COMPETENCE TO PERFORM THE REQUIRED SERVICE. *CTL's goal is to show that our work is transparent and lean. We treat every project, every dollar as if it were our own because we are not a service but a business partner. Our mantra is "It is our project also".*

CTL is a multidisciplinary Consulting Firm that provides **Environmental Engineering, Civil Site Design, Surveying, Construction Inspection, Materials Testing** and **Geotechnical** services for private development and local agencies and municipalities. Our highly qualified Team is capable of providing all the services outlined in this Request; We have a wide range of experience that can be called upon as seen fit by the client in order to deliver all projects assigned to our Team on time, within budget, and as per contract documents and specifications. Our Team possesses the depth of resources, staff and knowledge to insure quick and efficient furnishing of qualified personnel as dictated by the client's needs.

ABILITY TO PERFORM EXPEDITIOUSLY. Seamless collaboration with the Project Managers/Engineers in all Divisions is essential for project success. We practice partnering on all projects by engaging and communicating with all members of the project team and all stakeholders involved with the project. Our Team possesses the depth of resources, staff and knowledge to insure quick and efficient furnishing of qualified personnel as dictated by the City's needs.

LOCAL WORKFORCE. CTL's office located in Morgantown, WV will be supplying the majority of the team's key personal with possible assistance available throughout CTL's network of offices. Any subcontractors used on this contract will be local companies that CTL has established relationships.

CLOSING. We hope this submittal 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.

www.ctleng.com

Description of the Firm

CTL Engineering, Inc. is a full service **consulting engineering, testing and inspection company** with a significant amount of experience in the construction industry. We have over 250 employees including Registered Professional Engineers, Geologists, Metallurgists, Chemists, and a variety of Certified Engineering Technicians. CTL Engineering is qualified to provide services in the following disciplines: Civil and Municipal Engineering, Surveying, Observation and Testing of Construction Materials and Processes, Geotechnical Engineering, 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.



CTL Engineering was established in 1927 and has maintained a presence within the State of West Virginia for over 30 years and throughout the State of Ohio for over 90 years. We have one of the most diverse firms in the region, a complete construction materials laboratory, a diversified local staff, and experience with large-scale local projects.

CTL Engineering 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."

CTL Engineering is regularly inspected by agencies such as the State Transportation Departments, the Cement and Concrete Reference Laboratory (CCRL) and the U.S. Army Corps of Engineers. Also, the National Institute of Science and Technology (NIST) and AASHTO accredit us in testing of concrete, soils, aggregates and asphalt.

- *CTL is regularly retained to provide services for private and public entities, (West Virginia University, West Virginia University Hospitals, Mon Health Systems, City of Morgantown, MUB and other Municipalities*
- *CTL personnel are fully trained and equipped to perform the required task throughout the project*
- *CTL Engineering **emphasizes good communication and interpersonal skills** that make our personnel valuable assets*
- *CTL takes pride in completing projects in a **cost effective and timely manner***





CTL Engineering of West Virginia, Inc. (CTL of WV) is a full service consulting civil engineering, testing, inspection, and analytical services company. CTL Engineering of West Virginia, Inc. was formed in 1981 to service West Virginia, Maryland and Pennsylvania. CTL of 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. During the early years, our expertise focused mainly on soils, foundation engineering, and construction testing and inspection services.

The Engineering News-Record ranked CTL Engineering, Inc. among top 500 architectural and engineering firms in the nation. CTL Engineering maintains a staff of over 200 employees, including registered engineers, architects, chemists, environmental scientists, geologists, hydrologists, wetland scientists and technicians.

CTL of WV provides total Civil Site Design for development projects throughout West Virginia. These designs include site layouts, utility design and interconnections, stormwater management design, parking and roadway design, permit preparation and submittal, and interaction with architects, owners and all interested parties to the projects.

CTL of WV provides all necessary surveying services required of projects including boundary and ALTA surveys, topographic surveys, aerial survey control, GPS surveys, and site construction surveys to assure proper construction and compliance with specifications of the project.

CTL of WV has become an industry leader in geotechnical design and investigations. In the past 5 years, CTL of WV has provided over 1000 geotechnical investigations including drilling, sampling and design for both the public and private sectors. CTL of WV is regularly called upon to provide unique geotechnical engineering design services for projects throughout the United States and Canada.

CTL of WV provides environmental services for developments throughout West Virginia and Maryland. Environmental Services include Phase I and II ESAs, wetland delineation and mitigation plans, State and Federal 401 and 404 Permit submittals, Ms4 Phase II storm water permitting, soil and groundwater sampling, asbestos surveys and sampling, lead based paint testing, mold testing, UST removal oversight, hazardous material identification and remedial design and other environmental services as required

CTL of WV provides construction, material and concrete testing and observation services. CTL of WV has ten field technicians providing dedicated construction observation and compliance testing. CTL's in-house material laboratory provides the much needed prompt turn-around required for projects to be successful.

Additional services provided by CTL include Nondestructive Testing and Inspection, Forensic Science, Accident Re-Construction, Roofing Consulting, Product Testing, Laboratories, Analytical Chemistry and Metallurgy Services



Consulting Engineering • Testing • Inspection • Analytical Laboratory Services

Employee Owned • Established 1927

PROFESSIONAL SERVICES

**Analytical Chemistry**

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

Computer Technology

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

Construction Administration

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

Construction Services

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

Environmental

- Phase I and II ESAs
- RCRA Closure and Site Remediation
- Asbestos/Lead/Mold Surveys
- Abatement Design/Monitoring
- Wetlands Delineation, Permitting and Mitigation
- Endangered Species/Ecological Surveys
- Stormwater Management
- Water Resource Engineering
- Underground Storage Tank Management per BUSTR
- Hydrogeologic Studies and Aquifer Characterization

Existing Structure Evaluation

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

Forensic Science

- Roofing Failures
- Building Failures
- Legal Testimony
- Product Liability

Forensic Investigations

- Landslide, Soil and Foundation Failures
- Accident Reconstruction

Geotechnical

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

Ground Penetrating Radar

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

Materials Testing

- Concrete
- Aggregates
- Soils and Rock
- Clay and Masonry Products
- Bituminous Materials
- Petrographic Studies
- Concrete and 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 Investigation
- Drainage Control Structures

Nondestructive Testing and Inspection

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

Pavement Management

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

Product Testing

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

Roofing Engineering and Building Envelope Services

- Infrared and Nuclear Testing
- Air/Water Infiltration
- Quality Control
- Roof Surveys Evaluation
- Design and Construction Administration

Roof Management Systems

- Budgeting
- Prioritization
- Deterioration Rates
- Condition Assessment
- Maintenance and Rehabilitation Strategies

Security and 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 and Mapping

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

Telecommunication Services

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

Welding and Quality Control

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

OFFICE LOCATIONS

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

1310 S Franklin Road
Indianapolis, IN 46239
Phone: (317) 295-8650
Fax: (317) 295-8395

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

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

633 High Street
Minford, OH 45663
Phone: (740) 820-8355
Fax: (740) 820-5698

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

1091 Chaplin Hill Road
Morgantown, WV 26501
Phone: (304) 292-1135
Fax: (304) 296-9302

2105 Schappelle Lane
Cincinnati, OH 45240
Phone: (513) 722-8665
Fax: (513) 834-6650

450 Grant St. Suite 110
Akron, OH 44311
Phone: (330) 994-1590

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Phone: (571) 229-5244

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

www.ctleng.com



SECTION 3 QUALIFICATIONS OF THE FIRM



CTL TEAM ORGANIZATION



Timothy Darrah
Project Manager

Geotechnical

Design / Engineering

Environmental

Construction Services

Surveying

Joe Grani, PE
Geotechnical Lead

Greg Foreman, PE
Civil Lead

Bipender Jindal, PE
Environmental Lead

Jim Gowarty
Construction Services Lead

Terry Allison, PS
Survey Lead

Carl Selfridge
Geotechnical Engineer

Reuben Haught, EIT
Engineer

Marc Winerstein
Environmental Scientist

Robert Adams
Senior Technician

JB Chambers
Crew Chief

CTL Team Key Personnel / Experience

Tim Darrah | Civil/Site and Surveying Department Manager

Education: B.S. Civil Engineering

Summary: Mr. Darrah will serve as the project manager for CTL. Mr. Darrah is presently responsible for department management for municipal engineering, civil site design and surveying projects including topographic, property and construction layout. Mr. Darrah also serves as project manager on various types of civil engineering projects including water, sewer and stormwater designs as well as residential, commercial developments and reclamation design projects. Office work includes site designs, hydrology calculations, quantity calculations, and various other forms of engineering related duties.



Relevant Project Experience

- Maple Drive WVDOH road design and utility relocations.
- Scotts Run Water Line, Wiles Hill Tank & MUB Access Road Survey-Surveying & Layout. Morgantown, W.V.
- Linwood Street Stormwater-Stormwater System. Morgantown, W.V.
- Dorsey Knob Public Services District As Built Survey-Surveying Services. Morgantown, W.V.
- WVUH Stormwater Analysis-Stormwater Analysis. Morgantown, W.V.
- Mon General Hospital Development-Site Design. Morgantown, W.V.
- Fairmont (Jackson Addition) Subsidence Project-AML
- Reclamation, Subsidence Investigation & Geotechnical. Marion County, W.V.
- University Place-Geotechnical, Surveying, Civil Site & Environmental Services. Morgantown, W.V.
- University Park-Geotechnical, Surveying & Civil Site Services. Morgantown, W.V.
- Pee Wee Hill Water Line Design, Kitzmiller, MD
- Farmington Box Culvert, Stormwater & Hydraulic Modeling. Farmington, W.V.
- Farmington Floodplain Expansion, Stormwater, Hydraulic Modeling and Floodplain Analysis, Farmington, W.V.
- Harvest Ridge Subdivision, Sewer, Water and Stormwater Design & WWTP. Morgantown, W.V.

Joseph Grani, P.E. | Geotechnical Engineer

Education: M.S. Geotechnical Engineering, 1994; B.S. Civil Engineering, 1991

Summary of Experience: Mr. Grani has over 20 years of experience in the geotechnical field. He is responsible for the supervision of all subsurface exploration projects including foundation analyses and recommendations for roadways, bridges, landslides, sewers, buildings, towers, and tanks. He has also worked on several roadway rehabilitation projects where unsuitable soils were encountered. His innovative solutions to projects have included using geogrid to bridge soft soils and decrease required pavement thicknesses and the use of drying agents such as cement and lime to stabilize the soils. Mr. Grani was the Project Manager for various landslide projects including a 1,590-foot long plug pile retaining wall (HEN-110-0.66), and a 1,170-foot long plug pile retaining wall (ADA-125-13.30).



Also, Mr. Grani served as the Project Manager for the geotechnical explorations with varying level of design calculations on 19 landslides in ODOT District 9, 14 landslides in ODOT District 5, and 23 landslides in ODOT District 11. In addition to landslides, in the past 5 years, Mr. Grani has served as Geotechnical Project Manager on over 50 other transportation projects across Ohio including new highway interchanges, bridge and culvert replacements, and roadway realignments.

Gregory Foreman, P.E. | Civil & Municipal Engineer**Education:** B.S. Civil Engineering**Professional Registrations:** Professional Engineer, WV, PA

Summary: Mr. Foreman will be the Design Lead for the project. Mr. Foreman has been with CTL Engineering for more than 10 years and has served as Project Manager and Design Engineer for a multitude of design projects for municipal, commercial, and private developer clients. He has over 25 years of experience with consulting engineering organizations. Prior to joining CTL, Mr. Foreman's career involved project engineering roles for Horner Brothers Engineers and Greenhorne & O'Mara. Mr. Foreman's experience includes roadways and streets including design, permitting, bid package development, and construction oversight. Representative experience includes:

**Relevant Project Experience**

Mr. Foreman's experience includes roadways and streets including design, permitting, bid package development, and construction oversight. Representative experience includes:

- Mount Morris Municipal Authority, Pennsylvania. Lead engineer for design of sewer system remediation design. Effort involved coordination of design for requirements of PennDOT as related to system components within PennDOT right of way.
- Fairview, West Virginia. Project engineer for sidewalk improvements within WVDOH right of way. Effort involved design and preparation of construction plans and specifications for the removal and replacement of 1,000 square yards of concrete sidewalk including the installation of handicap access ramps along Main Street and a construction cost of over \$500,000.
- Star City, West Virginia. Project Engineer for Industrial Avenue and Boyers Avenue Streetscapes. Effort involved design and preparation of construction plans and specifications for the construction of concrete sidewalks in WV DOH right of way. Responsibilities included site evaluation, utility relocation and removal, preparation of specifications and construction bid packages. Projects involved over 870 linear feet of public streets widening and improvement, 1,000 LF of sidewalk replacement and a capital cost in excess \$470,000.
- Fairmont, West Virginia. Project engineer for sanitary sewer improvements including field investigation and evaluation of the existing sewer system. Responsibilities included design and specifications, and permitting, for the sewer replacement and force mains in the WVDOH right of way including aspects related to replacement of impacted pavements. Construction costs for the improvements were in excess of \$9,000,000 and involved over 10,000 linear feet of impacted public roads.

Bipender Jindal, P.E., C.P. | Project Engineer/Certified Professional**Education:** B.ChE.in Chemical Engineering; B.Sc. in Biological Sciences

Summary of Experience: Mr. Jindal is the Director of Environmental Services for CTL, with over 30 years of experience in providing and managing Environmental Site Assessments (ESAs), Hazardous Waste Management, UST Services and other aspects of environmental services. Mr. Jindal's innovative approach to project management has resulted in substantial cost savings for clients. Under Mr. Jindal's management, CTL's execution of ESAs for all the ODOT roadway improvement projects, ODOT rest areas, and the Nelsonville By-Pass project were completed on time and under budget. In addition, 99% of CTL's ODOT District 3 and 6 task order projects were completed on time and under budget.



In 2007, Mr. Jindal obtained accreditation as an Asbestos Project Designer in the State of Ohio and completed abatement project designs for the Ohio State University and Kent State University projects. As a Certified Professional under the Ohio EPA's VAP, Mr. Jindal has conducted VAP compliant Phase I & II ESAs, including remediation and has issued one No Further Action (NFA) letter and obtained Covenant Not to Sue (CNS). Mr. Jindal has experience with in-situ & Ex-situ treatment of organic/petroleum contaminated soil & groundwater & has completed several projects successfully.

Relevant Project Experience**Davis Wince Architects, Ltd; Columbus, OH; 2007**

Conducted site visit for developing the hazardous material survey plan for the OSU Jones Graduate Tower Renovations project.

Braun & Steidl Architects, Inc., Columbus, OH 2007-2008

Managed the hazardous material survey for the abandoned City of Columbus water treatment laboratory facility.

Harris Design, Columbus, OH; 2008

Conducted site visit for developing the hazardous material survey plan for the former City of Columbus Police Building renovation project.

Davis Wince Architects, Ltd; Columbus, OH; 2006-2008

Conducted hazardous material survey for the former 6-story, Ohio Department of Job and Family Services Building

Mark Winterstein, M.S. | Environmental Project Manager**Education:** M.S. Environmental Management; B.S. Environmental Engineering Technology

Summary of Experience: Mr. Mark Winterstein, M.S., has been a Project Manager for CTL Engineering since September of 2004 and has over 22 years in environmental industry. Mr. Winterstein has expertise in the following areas: Phase I Environmental Assessments, Phase II Environmental Assessments; UST closures & corrective actions; surface impoundment and hazardous waste unit closures; PTI/PTO permit applications for wastewater and air emission sources; storm water pollution prevention and SPCC plans; industry required OSHA programs; RCRA, SERC, and SARA reporting; ISO 14000 implementation; waste management, minimization, and recycling programs; RCRA & DOT compliance. Previously Mr. Winterstein worked at the GM-Harrison facility as a contract environmental engineer and oversaw the removal and closure of the facility structures in adherence to OEPA cessation of regulation operations rules.



James P. Gowarty | Construction Services Manager

Education: B.S. Civil Engineering, 1990; A.S. Mechanical Engineering, 1990

Summary: Mr. Gowarty will serve as the Construction Services Lead for the Project. As the Construction Services Manager for CTL Engineering of West Virginia Inc., Mr. Gowarty is responsible for supervising field and laboratory technicians. He is also responsible for report writing for field and laboratory testing, project management, client contact, estimating, proposals and invoicing for Construction Services Department. Mr. Gowarty's experience also includes surveying, pre-mining and pre-blast surveys, field supervision of drilling crews, Phase I Environmental Site Assessments and radiation safety officer and corporate safety officer. In addition, Mr. Gowarty is the Construction Materials Testing



Supervisor, providing concrete, compaction, and aggregate testing and has over twenty (20) years of experience with Nuclear Gauge Operation.

Mr. Gowarty has been CTL's Corporate Safety Officer since the Fall of 2008. Mr. Gowarty is CTL's USNRC Safety Officer.

Relevant Project Experience

- Water Treatment Plant Correctional Action Design-Geotechnical & Construction Services. Marion County, W.V.
- Fairmont Airport-Variou Services. Fairmont, W.V.
- Hazelton Federal Correctional Institute-Variou Services. Hazelton, W.V.
- U.S. Department of Energy Facility-Geotechnical, Construction, Surveying Services. Morgantown, W.V.
- I-81 Martinsburg to Marlow Interchange-Design Build. Martinsburg, W.V.
- Mileground Roundabout-Construction Services. Morgantown, W.V.

Millard "Bucky" Nicholson | Civil Engineer

Education: B.S. Civil Engineering

Summary: Mr. Nicholson will serve as the Stormwater Modeling Lead. Mr. Millard L. Nicholson Jr. is a Staff Engineer, Project Manager, and CAD Designer in the Morgantown, West Virginia office of CTL Engineering, Inc. His responsibilities include assisting in the planning and design of civil site design projects involving land planning and site development aspects, stormwater for MS4 communities and permitting. He is proficient in AutoCAD Civil 3D, HEC-RAS, TR-55, Hydraflow Hydrographs, Microsoft Word, and Microsoft Excel. His projects include commercial and residential properties, mine and energy sites, and, also, state, county, and local roads. Mr. Nicholson expertise in stormwater and hydraulic modeling are crucial for any project CTL completes. All site development designs are coordinated through Bucky and rely on his calculations and analyses for site specific specifications. Bucky has completed numerous studies and analyses in support of modification to FEMA Flood Maps via LOMR (Letter of Map Revision) process. He has modeled several sites using HEC-RAS to determine the actual floodplain limits. Bucky also is our lead for green design in stormwater, such as biocells and rain gardens. Ditch calculations and drainage areas are other examples of Bucky's experience.

**Relevant Project Experience**

- Aquatic Center – Site Design / Stormwater, Monongalia County, West Virginia
- LOMR and FEMA permits various locations in West Virginia
- Site Development stormwater design, various locations in West Virginia
- Hydraulic Modeling for Bridge Analysis, Monongalia County, West Virginia
- Mylan Park – NPDES Permit, Monongalia County, West Virginia

Reuben Haught, P.E | Civil Engineer**Education:** B.S. Civil Engineering Technology**Summary:** Mr. Haught will provide engineering support to stormwater modeling and design for the project. Mr. Haught is a Staff Engineer and CAD Designer whose responsibilities include site design, site grading, stormwater design in and out of MS4 communities, permitting, retaining pond design, and impoundment stability inspections. He is proficient in AutoCAD Civil 3D, Hydraflow Hydrographs, Microsoft Word, and Microsoft Excel.**Relevant Project Experience**

WVU Track and Aquatic Center in Morgantown, WV: Site Layout, Site Grading, Stormwater Design, Erosion and Sediment Permitting, Retaining Pond Design.

WVU Medicine Clinic in Fairmont, WV: Site Grading, Stormwater Design, Erosion and Sediment Permitting, Retaining Pond Design

Mon General Outpatient Facility in Fairmont, WV: Site Grading, Stormwater Design, Erosion and Sediment Permitting, Retaining Pond Design

Carl Selfridge | Geotechnical Engineer**Education:** B.S. Civil Engineering Technology**Summary:** Mr. Selfridge will serve as a geotechnical engineer and provide geotechnical oversight and review for the project. Annually manages 100+ various geotechnical projects including; education, transportation, commercial development and a variety of public and private clients. Mr. Selfridge is responsible for directing all aspects of the Geotechnical Engineering Department for CTL Engineering of West Virginia, Inc.

This includes the management of field drilling activities, field classification of soil and 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.

Relevant Project Experience

Water Treatment Plant Corrective Action Design-Geotechnical Services. Marion County, W.V.

Benedum Airport Towers-Geotechnical Services. Harrison County, W.V.

I-81 Martinsburg to Marlowe Interchange-Design Build. Jefferson County, W.V.

Oak Valley Garden Apartments-Geotechnical Services. Gilmer County, W.V.

West Minister Apartments: Phase I & II-Civil Site, Environmental, Geotechnical & Surveying Services. Jefferson County, W.V.

University Place-Civil Site, Environmental, Geotechnical & Surveying Services. Morgantown, W.V.

WVU Stewart Hall Retaining Wall-Geotechnical Services. Morgantown, W.V.

Doug Batt, P.E. | CTL Project Manager / Geotechnical Lead

Education: M.S., Geotechnical Engineering, 1992; B.S. Civil Engineering, 1989

Summary of Experience: Mr. Batt's 25 years of experience as a geotechnical and materials engineering consultant covers a variety of infrastructure, commercial and industrial projects. His technical and project management experience includes geotechnical explorations, foundation design and evaluations, and construction materials testing and inspections along with Phase I ESAs and Limited Phase II ESAs for the following types of projects: manufacturing, industrial logistic facilities; roadways and bridges; reinforced earth embankments, earth dams, and earth retaining systems; slope stability analyses and landslide remediations; above and below ground fuel and water storage tanks; wastewater treatment facilities; and parking facilities; and multistory office, hotel and school buildings. In addition, Mr. Batt has performed forensic evaluations and investigations and has served as a legal expert consultant for litigation cases.

**MEMORIAL PARKWAY TREATMENT PLANT RESERVOIR**

Fort Thomas, Kentucky

Mr. Batt acted as CTL's Project Manager for the geotechnical exploration on a project that consisted of the analysis of the existing reservoir embankment slopes, including laboratory testing of the soils encountered in the embankments and slope stability analyses in both long term steady state seepage and rapid drawdown conditions.

SHAWNEE STATE FOREST DAM IMPROVEMENTS AND REPAIRS (ODNR)

Adams and Scioto Counties, Ohio

Developed remediation design plans, specifications and construction cost estimates for the retrofit of the existing earth dams. Executed Preliminary Investigation, Preliminary Design and Final Design phases for four earth embankment dams that required increased storage-discharge capacity, structural repair of the principal concrete box culvert spillways along with evaluating the improvements for stability and seepage control. Performed geotechnical explorations, hydrologic and hydraulic analyses of watersheds and dam outlet structures, design of earth retaining walls, spillway inlets, sliplining of box culvert outlets and roller compacted concrete (RCC) dam embankment overlayment. His design approach included value engineering of several design alternatives that included increasing the height of three existing embankments along with constructing new emergency spillways and developing a breaching plan for fourth dam embankment.

J.B. Chambers | Surveyor

Education: Garrett County Community College

Summary: Mr. Chambers will be responsible for field surveying for the project. Mr. Chambers presently serves as a Surveying Supervisor and Party Chief for the Morgantown office. He is responsible for working directly with the Department Manager to coordinate projects and schedule personnel necessary to perform the required scope of services. Typical projects successfully completed by Mr. Chambers include a variety of surveying services such as; ALTA and ARSM surveys, utility locates, oil and gas line surveying, topographic, boundary, construction, site layout, mining, route, flood plan, as well as wetland delineation and control.

**Relevant Project Experience**

- Piedmont Water Treatment Plant, *Piedmont, West Virginia*
- Scotts Run Public Service District, *Morgantown, West Virginia*
- Reedsville Sewer Project, *Reedsville, West Virginia*
- Jefferson Street Bridge, *Fairmont, West Virginia*
- I-81 Cross Sections, *Berkeley County, West Virginia*
- Scotts Run Water Line, Wiles Hill Tank & MUB Access
- West Virginia University - Various Projects - Surveying Services, *Monongalia County, West Virginia*
- West Virginia University Hospital, *Morgantown, West Virginia*

Robert Adams | Senior Technician

Education: Salem College

Summary of Experience: Mr. Adams serves as Lab and Field Manager for the Morgantown, WV office. He is Senior Engineering Technician responsible for performing AASHTO and ASTM tests on soil and concrete including gradations, proctors, sieve analysis and compressive strength tests. Mr. Adams also serves as our primary mentor on the training of our new technician staff. In addition, Mr. Adams is our primary technician for commercial and WVDOH Projects, performing field nuclear density testing on highways and bridges throughout West Virginia.

**Relevant Project Experience**

- Benedum Airport, Bridgeport, WV
- Fairmont Airport, Marion County, WV
- Dunkard T-Beam Bridge, Monongalia County, WV
- Star City Bridge, Morgantown, WV
- Monongahela Avenue, Morgantown, WV
- WV Department of Highways, Numerous Projects throughout WV
- Harrison Power Station Phase V Step 1, Harrison County, WV
- Pond Slope Stabilization, Various Locations in WV - Point Marion Lock & Dam Project, Pt. Marion, PA

Past Project Experience

Project: Cacapon Resort State Park Wastewater Treatment Plant Upgrade

Owner: West Virginia Division of Natural Resources

Location: Berkeley Springs, West Virginia

Project Description: The project consisted of the design and construction of renovations to the Cacapon State Park. CTL Engineering of West Virginia, Inc. was retained to provide engineering services for the Wastewater Treatment Plant upgrade, Golf Cart Building and Path, review of the existing water lines, grading and stormwater around the resort. This included review of the existing systems, provide construction documents and specifications and help with the bidding and construction process.



Project: Retained Engineer

Client: Mount Morris Water and Sewage Authority

Contact: Charles Nutter

Phone: (724) 324-2186

Location: Mount Morris, Pennsylvania

Project Description: Mount Morris Municipal Authority, Pennsylvania. Lead engineer for design of sewer system remediation design. Effort involved coordination of design for requirements of PennDOT as related to system components within PennDOT right of way. As the retained engineer, CTL is responsible for any planning updates, engineering design, permitting, surveying, project management and construction inspection.



Project: Farmington Box Culvert Rehabilitation

Client: Monongalia Conservation District

Contact: Gene Saurborn

Phone: (304) 285-3118

Location: Farmington, West Virginia

Project Description: The town of Farmington has experienced occasional flooding from storms of short intense duration. CTL Engineering of West Virginia, Inc., in conjunction with an open-ended contract with the Monongahela Conservation District and the West Virginia Conservation Agency, provided design, specifications, bidding and construction observation and testing for the project consisting of demolishing and replacing the existing deteriorating concrete deck lid, repair spalling and cracking areas of existing sidewalls, and installation of a 8" diameter sanitary stub into the existing main line.



Project: Harvest Ridge WWTP

Client: Enroute Properties

Contact: Kevin Adrian

Phone: (304) 692-8402

Location: Morgantown, West Virginia

Project Description: CTL designed the sanitary collection system and 150,000GPD sewage plant to serve two subdivisions located on 220-acres with the potential to serve 535 single family homes treatment plant site. CTL provided all the design and permitting for this project and continues to provide services and technical support as the collection system and plant expand.

The collection system currently has over 26,590 feet of line, one lift station and 103 manholes. The subdivisions have plans to add to the collection system as the developments expand.

The sewage plant consists of a 15,084 gallon Pre-treatment chamber that will pump to three 50,000 GPD Sequencing Batch Reactors (SBR) at full build out. The SBRs will pump sludge to a 22,626 gallon aerated sludge holding tank. The SBRs will pump effluent to an Equalization tank that will pump to a 2,576 gallon chlorine contact chamber with a tablet chlorinator and de-chlorinator and a 1,218 gallon post aeration chamber. When the plant expands to 100,000 GPD the tablet disinfection unit will be replaced with an ultraviolet unit.



Project: Water Treatment Plant –Corrective Action Design

Client: City of Fairmont

Contact: David Sago

Phone: (304) 292-8443

Location: Fairmont, West Virginia

Project Description: CTL Engineering provided drilling and engineering services for the investigation, evaluation, and recommendations for the proposed Water Treatment Plant Corrective Action Design for the City of Fairmont. The work included multiple subsurface investigations, providing observation and design services for the construction of retaining walls on site, and conducting compaction and concrete testing services. CTL was

also responsible for providing a slope stability analysis to confirm the sites suitability for the existing and proposed features.



Project: Cheat Lake WWTP

Client: Morgantown Utility Board

Contact: Tim Ball

Phone: (304) 292-8443

Location: Morgantown, West Virginia

Project Description: CTL provided services for Morgantown Utility Board (MUB) on a \$10M dollar Sanitary Sewer Improvement Project, located in Eastern Monongalia County. CTL provided 1 on-site engineer and 3 full-time engineering technicians on the project. This project included Quality Control Construction Observation Services for a new Waste Water Treatment Plant and Regional Collection System. Phase I of this project involved expanding the current treatment plant facility from an operating capacity of 250,000 gal/day to 750,000 gal/day in addition to a new pump station along with associated pipeline work. This increase enabled the Board to bring public sewer service to over 1,000 people living in the nine subdivisions surrounding the Cheat Lake area of Morgantown, thus eliminating numerous privately owned treatment plants throughout the subdivisions.

Phase II of this project brought sewer service to the homes in the rural areas outlying the subdivisions. Our client, the Morgantown Utility Board, also requested CTL to provide oversight observation service.





Project: Maple Drive Widening
Client: Mon Health Systems / WVDOT
Contact: Ed Phillips
Phone: (304) 598-1404
Location: Morgantown, West Virginia

Project Description: CTL Engineering, Inc. was responsible for design and permitting of the Maple Drive widening project. CTL was retained to develop plans and specifications in coordination with the WVDOT to widen 1,400 feet of the existing Maple Drive from a narrow two lane road to a 22' road with a sidewalk. The project also included a new stormwater system and the coordination and design for the relocation of all existing overhead utilities to underground. CTL also provided documents and staff support throughout the bidding process.



Project: Pee Wee Hill Water Supply
Client: Maryland Department of the Environment
Contact: Mike Garner
Phone: (304) 689-1460
Location: Kitzmiller, MD

Project Description: The site consisted of 23 residences that had impaired water supply from existing wells and springs. The impairment was both quantity and quality based. Deep mines from the early 1900s to the 1950s in multiple seams underlaid the entire project area. Several of the residences had lost well supply totally and many others had seasonal reductions in available water. Most of the residents displayed adverse water quality. CTL investigated the project area to determine if water supply had been effected by abandoned deep mines. This included mine data review, well water sampling and well draw-down and surge testing. Design of full water supply and distribution system to all residences. Design included 5,900 LF of mainline supply, 7,100 LF of distribution lines with fire protection, 23 tap-in lines, 105,000 gallon supply tank, 60gpm booster pump station from existing system to new supply tank. Construction E&S control plans, Construction drawings and specifications, and As-Built drawings.



Project: Licking County Project Management
Client: Licking County
Contact: Licking County Engineer's Office
Phone: (740) 670-5280
Location: Licking County, Ohio

Project Description: CTL Engineering is currently providing total project management/procurement, construction administration, construction inspection and materials management services for the duration of the project that is located in Etna Township, Licking County, Ohio. The project consists of widening of SR 310 from 2 lanes to 5 lanes. The work includes construction of a 10 ft. Shared Use Path on the east side of the roadway construction of a new curb and gutter installation of new signals at the intersection of USR-40/SR-310 and Pike St./SR-310 as well as extension of a 10ft x 5ft precast concrete box culvert.



Project: City of Columbus, Department of Public Utilities

Client: City of Columbus

Contact: Department of Public Utilities

Phone: (614) 645-8276

Location: Columbus, Ohio

Project Description: CTL Engineering is currently providing construction administration services for various Divisions within the Department of Public Utilities. Typical projects include the replacement or rehabilitation of water distribution lines, water tank overflow improvements, and installation and/or replacement of water mains for the Division of Water; construction of green infrastructure and sanitary sewers, and replacement of hydraulic pump control valves for the Division of Sewerage and Drainage; traffic signal design and street lighting for the Division of Power; and general building rehabilitation for the Department of Finance and Management.

THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR

Project: University Place

Client: West Virginia University

Contact: James Brown, General Contractor

Phone: (304) 363-4500

Location: Morgantown, West Virginia

Project Description: The project consisted of the design and construction of a new student housing complex for the growing West Virginia University student population. Project is a Public/Private Partnership between the Developer and West Virginia University and is located on University Avenue in the Sunnyside area. CTL was retained to provide the full asbestos evaluation of 22 structures & demolition plan, the geotechnical Analysis & Foundation design. CTL was also responsible for the stormwater management planning including bio-retention cell sizing and installation, utility coordination with local providers and construction observation including caisson inspections, concrete and compaction testing and structural steel inspection.



Project: University Park

Client: Paradigm Architecture

Contact: Paul Walker

Phone: (304) 284-5015

Location: Morgantown, West Virginia

Project Description: The project consisted of the design and construction of a new student housing complex for the growing West Virginia University student population. Project is a Public/Private Partnership between the Developer and West Virginia University and is located off University Avenue in Evansdale. CTL was retained to provide surveying, site grading & design, street annulments and relocation, geotechnical investigation reports, flood plain studies, and stormwater management permitting and design. CTL was also responsible for foundation recommendations and designs and the completion of an ALTA survey.



Project: WVU Medicine – Outpatient Primary Care Facility

Client: WVU Medicine

Contact: Alan Neptune

Phone: (304) 598-4125

Location: Fairmont, West Virginia

Project Description: The project consisted of the design and construction documents for an outpatient care facility in Fairmont WV. CTL Engineering of West Virginia, Inc. was retained to provide surveying and an ALTA survey, site grading & design, geotechnical investigation reports, and stormwater management permitting and design. CTL was also responsible for the Phase 1 ESA, the NPDS permitting and a design for sanitary sewer.



Project: Chaplin Hill Business Park

Client: Monongalia Co Economic Development Authority

Contact: Holly Childs, Director

Phone: 304-296-6684

Location: Morgantown, West Virginia

Project Description: CTL provided complete design and engineering services to the Monongalia County Development Authority for the Development of a 75-acre Light Industrial Park. CTL provided conceptual and final design layout for 10 – 2 to 6 AC+ building site including utilities, stormwater and sewerage collection systems, Grant Application assistance, construction management, and quality control construction observation. The Park currently has 10 active business structures and 13 property owners. The park has provided for over 500 jobs in light commercial and industrial buildings.



Project: The District – Student Apartment Complex

Client: EA Morgantown, LLC

Location: Morgantown, West Virginia

Project Description: This project is a 30-acre development for student housing that consists of 20 apartment buildings, a clubhouse with a pool and a walking trail.

CTL was responsible for permitting, including the following: Erosion and Sediment Control Permit; Highway Access Permit; Temporary Stream Crossing Permit; Right of Access and License Agreement for Temporary Culverts and Permanent Stream Crossing; 100 Year Flood Study for the Monongalia County Floodplain Development Permit; 401 Water Quality Certification; and the Section 404 Permit.

CTL also performed the Geotechnical Investigation and prepared the design for conceptual and final plans, road layout, and bridge location. CTL was also responsible for the design of a turning lane in accordance with West Virginia Department of Highways requirements, grading plans, retaining wall location, storm water systems and storm water detention.



Project: Gateway Development
Client: MAGCS, LLC
Contact: Cliff Sutherland, Owner
Phone: (304) 284-8244
Location: Westover, West Virginia

Project Description: This project is a 46-acre retail development featuring a Triple S Harley Davidson Shop, two hotels, a gas station/convenience store, various restaurants & retail stores. CTL was responsible for permitting, including the following: Erosion and Sediment Control Permit; Highway Access Permit, upgrading a county road and sanitary permitting. CTL also performed the Geotechnical Investigation and prepared the design for conceptual and final plans, road layout, and sanitary design, grading plans, survey and plat work including an Alta survey, storm water systems and storm water detention.



Project: City Engineering Services
Client: City of Westover, WV
Contact: Dave Johnson
Phone: (304) 296-6860
Location: Westover, West Virginia

Project Description: CTL Engineering of West Virginia, Inc. provided engineering services, mapping services, and storm water management services to the City of Westover for compliance to the Phase II Storm Water Permit (MS4) and for long term assessment for municipal planning. CTL also developed a Storm Water Utility to provide funding for the program. This program allowed the City to develop long and short term management plans for all storm water activity. CTL was also responsible for plan review to insure development within the City was in compliance with City code and engineering standards. CTL also provided engineering services and recommendations for the City's sewer system. CTL Engineering of West Virginia, Inc. was retained to provide sewer line surveying and mapping, sewer line capacity calculation, force main design and permitting. CTL also provided construction documents, bidding documents, meetings, awarding, and construction supervision and inspection.



Project: City Engineering Services (MS4)
Client: Town of Star City, WV
Contact: Herman Reid
Phone: (304) 599-3550
Location: Star City, West Virginia

Project Description: CTL Engineering of West Virginia, Inc. provided engineering services, mapping services, and storm water management services to the City of Star City for compliance to the Phase II Storm Water Permit (MS4) and for long term assessment for municipal planning. CTL also developed a Storm Water Utility to provide funding for the program. This program will allow the City to develop long and short term management plans for all storm water activity. CTL was also responsible for plan review to insure development within the City was in compliance with City code and engineering standards. CTL also provided engineering services and recommendations for the City's sewer system.

