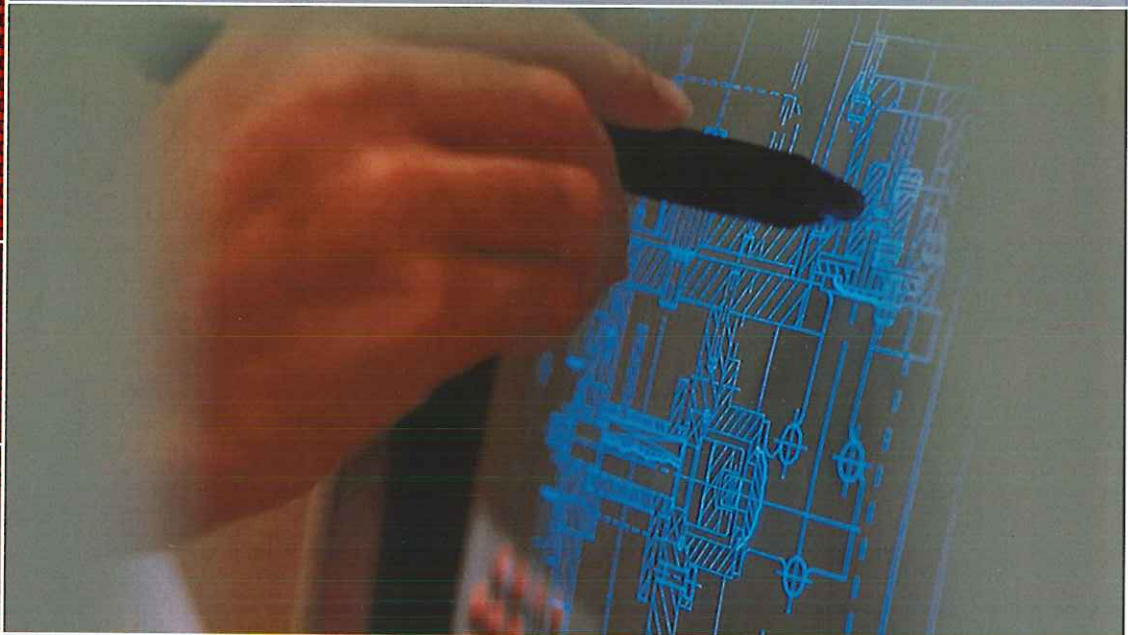


2012

# WV Division of Culture & History



*Professional Engineering and Architectural Services*

*DCH12070 - Cultural Center*

[www.ctleng.com](http://www.ctleng.com)

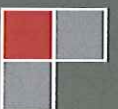


Ms. Shelly Murray  
DCH 12070  
02/09/2012  
1:30 PM



**ENGINEERING INC.**  
South Charleston, WV

510 C Street, (304) 746 - 1140, (304) 746 - 1143 (f)







09 February 2012

Purchasing Division  
1019 Washington Street, East  
PO Box 50130  
Charleston, WV 25305-0130

Attention: Ms. Shelly Murray

Reference: Professional Architectural and Engineering Services  
Statement of Qualifications and Expression of Interest  
Kanawha County, Charleston, West Virginia  
CTL Proposal No.: 12100003 CHAQUAL

Dear Ms. Murray:

In response to your Request for Qualifications (RFQ), CTL Engineering of WV, Inc. (CTL) is pleased to submit this statement of qualifications to provide Professional Architectural and Engineering Services for evaluation, design, quality assurance and construction management Services to address and repair issues with the exterior waterproofing system for the lower level of the Cultural Center. 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 Professional Engineers and a Architect capable of performing the services required on this project. Additionally, the local South Charleston office can obtain support from surrounding CTL offices.

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.

Sincerely,  
CTL ENGINEERING OF WV, INC.

A handwritten signature in blue ink that reads 'David E. Moore (c)'. The signature is written in a cursive, flowing style.

David E. Moore, P.E.  
Branch Manager

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# *History & Professional Services*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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510 C Street, South Charleston, WV 25303 (304) 746 -1140, [www.ctleng.com](http://www.ctleng.com)



FOR IMMEDIATE RELEASE  
September 27, 2011

Contact: Cassie Canterbury  
Tel. (304) 746-1140  
Email: [ccanterbury@ctleng.com](mailto:ccanterbury@ctleng.com)

**CTL NAMED ONE OF NATION'S FASTEST-GROWING PRIVATE COMPANIES**

South Charleston, WV - CTL Engineering, Inc. (CTL) joins the ranks of companies like, ideeli, Pandora, and Zappos in *Inc.* magazine's 2011 edition of "Inc. 5000," an annual ranking of America's fastest-growing private companies. CTL placed 3,865 out of 5,000 private companies nationwide. CTL increased its position in the annual ranking by 497 positions; last year CTL ranked 4,362.

*Inc.*'s list honors the significant accomplishments of the nation's top enterprises and entrepreneurs. As an *Inc.* 5000 honoree, *Inc.* magazine recognizes the creativity, dedication, and hard work of the CTL team.

Formerly known as Columbus Testing Laboratory, CTL's corporate location was established in 1927 as a private, independent engineering and testing laboratory. CTL later expanded its presence into West Virginia in 1982, and also added additional locations in Indiana and India.

Initially, CTL focused mainly on soils, foundation engineering and construction testing and inspection services. In recent years, the company expanded its services to the geotechnical, metallurgical, non-destructive testing, civil, mechanical, mining, roofing, building envelope forensics and design, drilling and the environmental service industries.

CTL regularly performs services throughout Ohio, the Midwest and Mid-Atlantic. CTL has regional offices in South Charleston and Morgantown, West Virginia along with locations in Indiana and India.

CTL is an Employee Owned Company.

#####





Consulting Engineers • Testing • Inspection Services • Analytical Laboratories

For more information contact:

Cassie D. Canterbury  
CTL Engineering of West Virginia, Inc.  
(304) 746 – 1140  
[ccanterbury@ctleng.com](mailto:ccanterbury@ctleng.com)

### CTL Engineering, Inc. Named in the Top 500 by *the Engineering News-Record*

South Charleston, West Virginia - A local company CTL Engineering, Inc. (CTL) was recognized nationally when *The Engineering News-Record* ranked its corporate location number 342 among all architectural and engineering firms in the nation. CTL was also listed by *Business First Journal* as one of the top engineering firms in the nation in terms of employees and revenues generated.

CTL, an Employee Owned Company, was the Ohio/Kentucky ESOP Association's Company of the Year.

CTL was also nominated for the National Company of the Year and the Employee Owned Company of the Year awards that were decided in Washington D.C. in May.

CTL is a full service consulting civil and geotechnical engineering, drilling, materials testing and construction observation service company. CTL is located locally in South Charleston and Morgantown, West Virginia with additional locations in Ohio, Indiana, and India.

CTL of West Virginia, Inc. was founded in 1983. The state-wide staff is made up of licensed professional engineers, licensed land surveyors, environmental scientists, geologists, and certified engineering technicians.

CTL Engineering, Inc.'s corporate location, formerly known as Columbus Testing Laboratory, was founded in 1927 in Columbus, Ohio.

Nationwide, CTL sustains a staff of over 220 employees with West Virginia citizens consisting of over 50 of those 220 employees.

With over 27 years of experience in West Virginia, CTL has provided numerous civil site designs, geotechnical designs, stormwater plans and surveys for both commercial/residential developments and roadway projects.

CTL also has extensive experience working on mining related projects and providing environmental services.

CTL has maintained its presence in the Oil and Gas Industry for over ten years servicing hi-profile clients like Chesapeake Energy and Cabot Oil and Gas.

CTL maintains a fleet of drill rigs including trucks, rubberized tracks and ATV mounts. CTL's drilling crews have experience in steep terrain, barge drilling, and deep boring exploration to depths greater than 300 feet.

All of CTL's engineering technicians are certified and have extensive experience in materials testing and construction observation.

The U.S. Army Corps of Engineers validated CTL's South Charleston laboratory in 2002. All of CTL's West Virginia labs are inspected annually by the WV Division of Highways.

Additional services CTL offers include Ground Penetration Radar, GIS mapping, ALTA surveys, GPS surveys, Nondestructive Testing and Inspection, Forensic Science, Accident Re-construction, Roof Consulting and Design, Building Envelope Testing and Design, Product Testing, Analytical Laboratories, Metallurgy Services, Security and Safety Systems, Telecommunication Services, Existing Structure Evaluations, and Expert Testimony.

CTL Engineering, Inc. is an Employee Owned Company.

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# Professional Services

Established 1927

## Analytical Chemistry

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

## Computer Technology

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

## Construction

### Administration

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

### Construction Monitoring

- Floor Flatness
- Single and Multi-Story Structures
- 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
- Wetlands Permitting
- Wellhead Protection
- Wetlands Delineation
- Abatement Monitoring
- Site Abandonment and Closure Planning
- Site/Facility Assessment
- 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

- Bridges
- 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

- X-ray
- Level III Services
- Ultrasonic Inspections
- Liquid Penetrant Inspection
- Magnetic Particle Inspection

## Pavement Management System

- 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 Services

- Maintenance Seminars
- Laboratory Testing
- Moisture – Infrared & Nuclear
- Quality Control
- Management Programs
- Roof Surveys Evaluation
- Design & Construction Administration

## Roof Management System

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

## Site/Civil Engineering

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

## Surveying & Mapping

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

## 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

6777 Engle Rd, Building III, Suite N  
Cleveland, OH 44130  
Phone: (440) 239-9526  
Fax: (440) 239-9529

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 Saguato Trail  
Indianapolis, IN 46268  
Phone: (317) 295-8650  
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4122 Bennett Memorial Rd, Suite 301  
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733 Fairmont Road  
Morgantown, WV 26501  
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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](http://www.ctleng.com)





## Roofing and Building Envelope Group

The Roofing and Building Envelope Group at CTL Engineering provides a full range of diagnostic and design services in all facets of the building envelope including roof systems, waterproofing, and wall systems. Our expertise is in design, evaluation and condition assessment, testing, and construction quality assurance.

CTL Engineering's Roof Engineering and Building Envelope Services include Due Diligence, Design, Evaluation and Condition Assessment, Non-Destructive Testing, Materials Testing, Construction Quality Assurance, Asset Management and Maintenance Programming, and Expert Testimony. CTL Engineering also conducts seminars on envelope design, maintenance, and current issues.



### Design

Proper design is critical when remedial work is needed. Inadequate or flawed design will result in reduced useful life span of the building envelope component or system. Our experienced designers pay attention to the details of a client's facility and custom design; we don't pull plans off a shelf. CTL Engineering also reviews documents for technical content and constructability.

### Evaluation and Condition Assessment

CTL Engineering provides various levels of condition assessment to aid clients in managing facility assets. We examine the envelope assembly from the building interior as well as from the exterior. We obtain samples to identify materials, for laboratory analysis, and to obtain data on moisture infiltration. Non-destructive testing, utilizing infrared, nuclear and capacitance equipment and methodology is routinely performed as a part of the diagnostic process.

### Quality Assurance

Quality Assurance Service is recognized by the industry as a vital component of successful roof installation. CTL Engineering's roof inspectors are trained to observe all phases of installation to ensure the materials are in compliance with project documents. Daily Roof Inspection Reports delineate material and installation compliance and documentation of unforeseen contingent items to the contract. Non-compliance issues are immediately addressed to ensure proper installation of the specified roofing assembly.





CTL Engineering has a diverse team of experts experienced in structural evaluation on staff. These experts encompass a variety of disciplines and can evaluate the condition of building materials at your site or in one of our laboratories, using state-of-the-art techniques and equipment.

During structural evaluations, we rely on our experts in the fields of construction, mechanical, metallurgical, geotechnical, forensic, mining and roofing engineering. We can perform in-depth material analysis in our chemical, construction materials, soils, metallurgical, or nondestructive testing laboratories. CTL Engineering also performs safety inspections and accident investigations.



Our experience includes structural evaluations of:

- ◆ **Buildings, Commercial and Residential**
- ◆ **Bridges**
- ◆ **Parking Garages**
- ◆ **Roofs**
- ◆ **Foundations**
- ◆ **Dams**
- ◆ **Pavements (Flexible & Rigid)**

The ultimate goal is to understand the causes of failure or deterioration and to provide recommendations for the necessary rehabilitation procedures.

Existing structures are evaluated using modern equipment and procedures, including:

- ◆ **Destructive and Non-Destructive Testing Methods**
- ◆ **Sonic Velocity Tests**
- ◆ **Petrographic Examinations**
- ◆ **Dynamic Properties of Materials**
- ◆ **Load Tests**
- ◆ **Strain Gauges**
- ◆ **Impact-Echo Tests**





## 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.

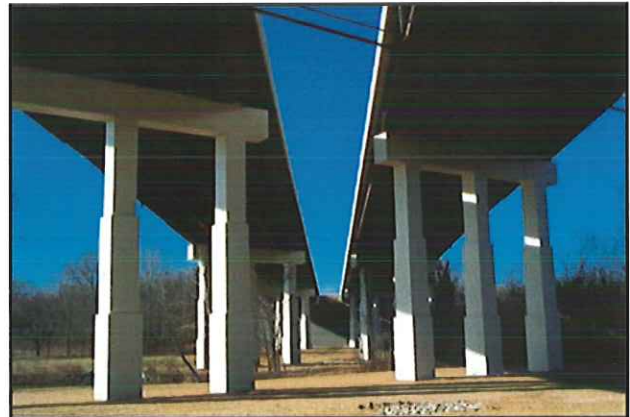
### CTL Engineering provides the following Construction Administration Services:

- ◆ 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.



A project's construction phase requires quality control observations and reliable testing. Building owners, architects, engineers, and contractors choose CTL Engineering for field observations, knowing that we are accurate, dependable, and perform our services in a timely manner. Our experienced engineers and technicians are your partners in construction. We help provide a finished quality product.

**CTL Engineering provides observations of the following:**

- ◆ **Earthwork, including Embankment & Foundations**
- ◆ **Reinforced Concrete**
- ◆ **Floor Flatness**
- ◆ **Roofing Systems**
- ◆ **Structural Steel**
- ◆ **Masonry**
- ◆ **Sprayed-on Fire Proofing Installation**
- ◆ **Bituminous & Portland Cement Concrete Paving**
- ◆ **Single & Multi-Story Building Structures**
- ◆ **Pavement for Airport Runways**
- ◆ **Parking Garages & Bridges**
- ◆ **Water & Wastewater Treatment Facilities & Associated Piping Systems**
- ◆ **Highways**

We perform quality control testing of the above materials and structures, in addition to destructive and nondestructive testing of finished pavements and structures.



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**





## Forensic Services

### Failure Analysis – Accident Investigation

CTL Engineering manages all aspects of product failure and accident investigations in-house. We pull together the knowledge of our scientists and engineers, combined with the specialized testing capabilities of our various laboratories, to provide a complete and comprehensive investigation and report.

CTL's engineers provide "expert witness" testimony regarding various accidents or failures. CTL Engineering is recognized by government agencies, law firms, insurance companies, contractors, and the industry for providing thorough and accurate investigations and testimony. Attorneys can present their cases more confidently and effectively when supported by a CTL investigation.



*Vehicular Accident Reconstruction*

CTL provides its clients with detailed analysis and expert representation for many types of accidents and failures.



*Roof Collapse*



*Accident Avoidance and Visibility Studies*

- ◆ **Failure Analysis**
- ◆ **Roofing Failures**
- ◆ **Product Failures**
- ◆ **Pavement Failures**
- ◆ **Industrial Accidents**
- ◆ **Tire and Wheel Failures**
- ◆ **Vehicular Accident Reconstruction**
- ◆ **Landslide and Foundation Failures**
- ◆ **Equipment and Machinery Failures**
- ◆ **Buildings, Bridges, and other Structures**

If you have a technical problem and think that we might be able to help, please call us. We look forward to working with you to solve it.

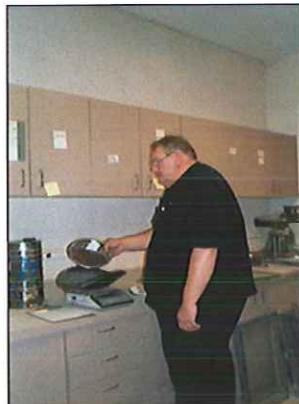


CTL Engineering is a leader in providing analytical services to the construction industry. We maintain a staff of experienced personnel and accurate equipment to guarantee dependable results. We evaluate all types of construction materials. Additionally, CTL Engineering can prepare and test Portland cement and bituminous concrete mixes for optimization studies to insure the proper mix design for specific jobs.

**We provide complete testing of the following:**

### Aggregates

- ◆ Component Analysis (sand, gravel, limestone) – Department of Transportation
- ◆ Filter Sand – Environmental Protection Agency
- ◆ Railroad Ballast – American Railroad Engineering Association
- ◆ Rip-Rap – U.S. Soil Conservation Service



### Soils

- ◆ Classification
- ◆ Compaction Parameters
- ◆ Permeability Tests

### Concrete

- ◆ Mix Designs
- ◆ Mix Verification Tests to verify strength, air content, consistency, and yield of concrete
- ◆ Compression Tests
- ◆ Flexural and Split Tensile Strength Tests
- ◆ Modulus of Elasticity
- ◆ Creep Testing
- ◆ Drying Shrinkage
- ◆ Rapid Chloride Permeability Tests



*Rapid Chloride Permeameter*

### Clay-brick, Pipe & Tile

CTL Engineering provides complete and thorough analysis of clay products. Some of the more common tests include:

- ◆ Compressive Strength
- ◆ Absorption
- ◆ Freeze-thaw
- ◆ Efflorescence
- ◆ Dimensional Analysis
- ◆ Acid resistance

In addition to the standard tests that are required by specification, we perform specific tests on construction materials as dictated by the needs of the customer.

### **CTL Engineering offers petrographic examination of construction materials.**

These specialized microscopic evaluations allow us to closely evaluate concrete quality and determine the causes and extent of failures in concrete, in addition to potential future performance.

In addition to the standard ASTM tests of strength, absorption, dimensions unit weights, etc., CTL Engineering provides several specialty tests on concrete block and brick, including the fire rating test, specified by the BOCA, and efflorescence testing required by many architectural firms.

### Asphalts

- ◆ Mix Designs
- ◆ Nuclear Gauge Calibrations Extraction and Grading
- ◆ Core Testing for Density and Strength.

**You can be assured of complete quality testing for all of your construction mixes.**



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.



*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.



*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



*Barge Drilling*



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# *Executive Summary*

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## *WV Cultural Center*

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### *Repair of Exterior Waterproofing System - DCH12070*

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510 C Street, South Charleston, WV 25303 (304) 746 -1140, [www.ctleng.com](http://www.ctleng.com)



## *EXECUTIVE SUMMARY*

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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, Geologists, Metallurgists, Chemists, Certified Waterproofing/Roofing Associates and a variety of Certified Engineering Technicians. CTL is qualified to provide services in the following disciplines: 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 and Design, Pavement Design, Structural Steel, Forensic Testing and Product Testing.

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 and 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.

The 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.



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# *Project Approach*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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## *PROJECT APPROACH*

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CTL understands this project involves investigation, design, quality assurance, and construction management services to address ongoing water seepage and to address issues with the exterior waterproofing system for the lower level of the cultural center.

According to prior investigations and information provided in the request, the original waterproofing was installed during construction in 1975, and in 1990 the plaza deck was completely replaced due to poor waterproofing causing leakage in the lower level walls. Contractor tradesmen whom were on site during construction and waterproofing during the 1975 construction were interviewed and described quality assurance issues regarding materials and execution of work.

Additionally, there has been soil settlement around the perimeter of the building which directly exposes some of the upper edges of the waterproofing system to environmental factors that can ultimately cause deterioration of the asphalt and delimitation of the concrete wall. At the intersection between the bottom of the wall and the footer there is a 3" ledge; the applied membrane must undergo a 90 degree change in direction to cover the footer ledge, and then rotates down 90 degrees to cover the footer. Corners constructed in this manner are susceptible to cracking over time due to creasing; creating weak spots. Further, there are no apparent foundation drains installed causing a lack of water reduction and/or removal during high water table periods. Finally, fluorescent dye tablets were placed in nearby surface and plaza drains near the areas of leakage during heaving rain downfall with no obvious result. However, CTL's team understands that this may not necessarily mean that there is not a potential issue with nearby drain lines but describes in-house efforts to trace the issues.

If chosen for the project, the CTL team will take into account the above-referenced investigation results while conducting our own investigation. Upon conclusion of the investigation, our team will determine the best and most cost-saving means of approach to remediate the issue. We will create a construction cost estimate accompanied with justification for the best means of approach, develop biddable plans and specifications for construction, provide construction administration and quality assurance and close out the project within the 120 day allotted time frame.



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# *Team Organization*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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## *TEAM ORGANIZATION*

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

### **Supervisory Staff**

CTL will assign **Mr. Patrick Gallagher, P.E.**, a Professional Engineer with over 30 years of relevant experience, to serve as the project principal. Mr. Gallagher will utilize his extensive 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.**, a Professional Engineer with 30 years of relevant experience to serve as the Structural Engineer for this project. Mr. Moore has significant experience with concrete floor and wall design including construction and remediation. He will coordinate structural engineering activities including providing onsite inspection, preparation of design calculations and construction drawings.

CTL will assign **Mr. David Fransen**, a registered consultant with over 36 years of experience to serve as managing supervisor of the roofing, building envelope and waterproofing team. He will coordinate CTL's assigned waterproofing team and provide recommendations, peer review and technical support.

CTL will assign **Mr. Mikel Coulter, AIA**, a registered Architect with 30 years of relevant experience to serve as CTL's assigned Architect. Mr. Coulter has extensive experiencing in roofing engineering and building envelope consulting. He will coordinate architectural design and trouble shoot waterproofing and wall components.

CTL will assign **Mr. Charles Scripp, Jr.**, a roofing and building envelope project manager with over 31 years of experience to service as project manager in conjunction with Mr. Moore. Mr. Scripp along with Mr. Moore will prepare and oversee management of all relevant construction related documents and monitor project schedule and deadlines.

CTL will assign **Mr. Jeremy Rose**, an experienced technician with 11 years of relevant experience to serve as the Field Manager of related testing activities for these projects. Mr. Rose has a significant amount of experience with concrete, asphalt and soils and will assist Mr. Moore in the coordination and reporting of testing activities and provide direct oversight of CTL's field personnel.

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



**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, stormwater management, grant preparation, supervision during bidding phase, construction management, and final grant approval.

***Blanchette Rockefeller Neuroscience Building, WVUHospitals, 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.

***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 acre 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.



***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 19<sup>th</sup> Annual Conference of the Association of Abandoned Mine Land Programs Canaan Valley, WV August 17-20 1997**

*Expertise*

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

Presently Mr. Moore manages 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 Dept. Manager and Branch Manager, CTL Engineering, S. Charleston WV  
1999 – 2009, Owner, 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 Construction Engineer, Fluor-Daniel Inc., Irvine, California

*Education*

M.S., Civil Engineering, Colorado University, Boulder, CO, 1984  
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; Virginia; 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*

Gas Projects

- Chevron Carter Creek Gas Project, Evanston, Wyoming (500 million dollar project)
- Ridgeview Estates Oil and Gas Layout, Design and Surface Agreements, Adams County, CO



## **DAVID E. MOORE, P.E.**

*Branch Manager*

- Massey Farms Oil and Gas Layouts and Surface Agreements, Weld County, Colorado

### 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
- 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



## **DAVID E. MOORE, P.E.**

*Branch Manager*

- 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

### 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
- 108<sup>th</sup> 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
- Williams 2 Surface Mine, Enterprise, WV
- Owl Creek Surface Mine, Monongahela County, WV
- Mays Run Surface Mine, Monongahela County, WV
- 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
- 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
- Flatirons Golf Course Pro Shop, Boulder Colorado

Geotechnical Projects

- WVDOH South Mineral Wells Bridge, Parkersburg WV
- Cornwell Residence Landslide, Huntington WV
- WV BRIM Mine Subsidence Projects, South Charleston, WV

## **DAVID FRANSEN, RRC**

*Roofing Services Department Manager*

### *Expertise*

Mr. David Fransen is responsible for the management of the roof engineering and consulting department at CTL Engineering Inc.'s corporate headquarters in Columbus, Ohio. Responsibilities include administration of department and roof technicians, marketing, invoicing, collections and P&L.

Other primary responsibilities include: Building envelope audits, investigations and trouble shooting for roof systems, waterproofing, wall components and windows/doors. He is also responsible for the construction, bid document preparation and commissioning. David Fransen is affluent in specification writing, project detailing, construction budgeting, bid procedures, project administration, owner's representative, contractor payment authorization and construction inspections, etc. David Fransen also assists the insurance industry and law firms in cases of expert technical witness and construction litigation in application and material failure conditions.

David Fransen continues his education in the building envelope field by attending symposiums, seminars, and technical classes for building envelope issues related to cause of failures, current design criteria, wind loading, drainage, etc. Mr. Fransen stays abreast of current Code, Factory Mutual, ANSI/SPRI, UL and other associated requirements for proper design.

### *Education*

Calvin College, Grand Rapids, Michigan  
Roof Apprenticeship, Local 44, Cleveland, Ohio  
Various Building Envelope Seminars/Symposiums – 12 CEUs required per year  
36 Years of Experience in Roofing Industry/Building Envelope

### *Professional Registration/Certification*

Registered Roof Consultant #0324, Sponsored by Roof Consultants Institute

### *Experience*

#### *Condition Surveys, Audits or Investigations*

Cleveland Public Schools - 43 School Buildings, Roofs, Windows, Masonry  
Village of Woodmere, Waterproofing- City Hall, Woodmere, Ohio  
First Congregational Church, Roof and Fleche, Columbus, Ohio  
Ohio Wesleyan University - University Hall, Roof, Masonry  
Ohio Wesleyan University - Slocum Hall, Roof, Skylights  
Denison University - FW Olin Science Center, Roof, Gahanna, Ohio  
Thomas Worthington High School, Roof, Windows, Worthington, Ohio  
Aynsley Condominium Association, Roofs, Westlake, Ohio  
Broad Brunson Condominium Association, Roofs, Windows, Stucco, Columbus, Ohio  
Erie Historical Society, Erie, Roof, Pennsylvania  
Erie Infant and Youth Home, Roof, Erie, Pennsylvania  
Ohio Department of Mental Health, Behavioral Health Center, Roof, Athens, Ohio  
Methodist Theological Library/Auditorium, Roof, Delaware, Ohio  
First Presbyterian Church, Akron, Roof, Ohio  
Trumbull Correctional Institution, Roof, Leavittsburg, Ohio  
Kenston High School, Roof, Masonry, Windows, Bainbridge, Ohio  
Hillsboro Elementary School, Roof, Masonry, Windows, Hillsboro, Ohio





*Preparation of Contract Documents (Drawings, Specifications, etc.)*

Cleveland City Schools – 15 School Building Roof Replacements, Cleveland, Ohio  
Buckeye Valley West Elementary School - Gym Roof Replacement, Ostrander, Ohio  
Roxanne Labs Roof Replacement, Columbus, Ohio  
First Congregational Church Roof Replacement, Columbus, Ohio  
Columbus Public Schools, Columbus, Ohio  
Ohio Department of Youth Services - Various Locations, Ohio  
Worthington City Schools – Roofs, masonry, windows, 10 School Buildings, Worthington, Ohio  
Ohio State University – Multiple Projects for Design, Columbus, Ohio  
Ohio State Supreme Court Building, Roof Replacement, Columbus, Ohio  
Allen Correctional Institute – 7 Building Roof Designs, Lima, Ohio  
Butler High School, Roof, Charlotte, NC  
Columbus State Community College, Roof, Columbus, Ohio  
Battelle – Roof Design, Columbus, Ohio  
Ohio University, Stocker Center Roof Replacement, Athens, Ohio  
Ohio University-Zane State, Littick Roof Replacement, Zanesville, Ohio  
Ohio Department of Mental Health, Behavioral Health Center, Roof, Athens, Ohio  
Aynsley Condominium Association, Roof Replacement, Westlake, Ohio  
Parkview Condominium Association, Roof, Siding, Window Replacement, Lewis Center, Ohio

*Construction Observations/Quality Assurance Observations*

Miranova Tower, Columbus, Ohio  
Mount Vernon City Schools - Middle School Roof Repairs, Mount Vernon, Ohio  
Rolls Royce, Mount Vernon, Ohio  
Dublin Methodist Hospital, Dublin, Ohio  
Talawanda High School, Oxford, Ohio  
East Liverpool Schools - 5 School Buildings, Roof Replacements, Ohio  
Tri-Rivers Career Center Roof Replacement, Marion, Ohio  
Galion City Schools, Galion, Ohio  
Seneca Local Schools, Attica, Ohio  
Ada Exempted Village Schools, Ada, Ohio  
Firelands Medical Center, Sandusky, Ohio  
Columbus Grove Schools, Constructability, Columbus Grove, Ohio  
Leipsic Local School District, Leipsic, Ohio

*Laboratory Testing: Physical Quantitative Analysis*

Heinz Hall - Waterproofing, Pittsburgh, Pennsylvania  
Methodist Theological Library/Auditorium, Delaware, Ohio  
Cleveland City Schools - 10 School Building, Cleveland, Ohio  
Tri-Rivers Career Center Roof Replacement, Marion, Ohio  
Ohio Department of Agriculture, Reynoldsburg, Ohio  
Worthington City Schools - 6 School Buildings, Worthington, Ohio  
Blanchard Valley Health Center, Findlay, Ohio

## **DAVID FRANSEN, RRC**

*Roofing Services Department Manager*

### *Forensics with potential Litigation*

Kobacker – Multiple Facilities Window, roof, interiors, pavement  
Davis – terrace, EIFS, Masonry, Roof Assessment  
Bi-Con – Masonry/Roof Assessment  
Karlsberger – EIFS, Masonry, Window Assessment and Testing  
Rittman Natatorium – Roof Assembly Failures  
Mansfield High School – Roof Failures  
Mount Vernon Schools – Roof Failures  
Ripley Schools – Roof/Masonry Failures  
Dublin Surgical – Masonry and Window Failures  
Kenston High School – Masonry and Window Flashing Failures  
Elyria Schools – Waterproofing Recommendations  
Leetonia Schools – Pavement Trouble Shooting/ Testing  
Waverly Schools – Roof, Flooring, Masonry Trouble Shooting

### *Lectures Presented Related to Roofing Maintenance*

Commercial Roofing Systems Training Seminar, Ramada Inn, Cleveland, Ohio  
Taking Charge of Your Roofs, Garret Morgan Middle School, Cleveland, Ohio  
Roof Systems - Ohio Physical Plant Directors, Hamilton - Williams Campus Center, Delaware, Ohio  
Roof Maintenance Management for AIA CEUs, Various Architectural Firms

### *Professional Affiliations*

Roof Consultants Institute  
Ohio Public Facilities Maintenance Association



***Expertise***

Mr. Mikel Coulter, AIA, is an Ohio registered Architect working in the roof engineering and building envelope consulting department at CTL Engineering Inc.'s corporate headquarters in Columbus, Ohio. Responsibilities include marketing, project management, and construction administration.

Other primary responsibilities include: Building envelope audits, investigations and trouble shooting for roof systems, waterproofing, wall components and windows/doors. He is also involved with construction bid document preparation and commissioning. More specifically, assistance in specification writing, project detailing, construction budgeting, bid procedures, project administration, owners representative, contractor payment authorization and construction inspections.

Since 1982 Mr. Coulter has been involved in conditional Property Condition Assessments (PCA) as a part of renovation and expansion projects on an as requested basis. Such PCA's have included small commercial properties, tenant lease space, warehouse facilities, medical office buildings and hospitals. As an architect doing renovation and building expansions he has done this *curatory* assessment both before a building has been purchased and for owner occupied buildings to determine the condition of buildings before detailed plans were developed or considered to be developed.

Mr. Coulter continues his education in the building envelope field by attending symposiums, seminars, and technical classes for roofing and building envelope issues related to cause of failures, current design criteria, wind loading, drainage, etc. Mr. Coulter stays abreast of current code, Factory Mutual, ANSI/SPRI, UL and other associated requirements for proper design. In addition, Mr. Coulter participates in continuing education classes offered by the American Institute of Architects as related to building constructability, LEED, "GREEN" building design and construction material evaluation.

***Education***

University of Houston, Bachelor of Architecture, 1981

***Professional Registration/Certification***

Registered Architect, State of Ohio, 1982

Certified by National Council of Architectural Registration Boards (NCARB), 1988

***Experience******CTL Engineering of Ohio, Inc., Columbus, Ohio (July 2008 – Current)***

In-house Architect responsible for evaluating building roofs and exteriors to determine remedial work required to repair water leaks and air infiltration. Projects have included single residential home, a 175 unit Condominium project, medical office buildings, Universities, and office/warehouse facilities.

***Property Condition Assessment Experience***

Nationwide Children's Hospital, Columbus, Ohio

Central Energy Plant

Inpatient Units

Radiology Department

Senior Administrative Office Suite

Children's National Medical Center, Washington, D.C.

Administrative Support Office Wing

Outpatient Clinics in Washington, D.C., Northern Virginia, Maryland

Southern Baptist Church, various locations in Ohio

## MIKEL COULTER, AIA

## Roofing Services Department Architect

Methodist Church, various locations in Ohio  
Morrison's Incorporated, various locations in Ohio  
Wendy's International, various locations in US and Canada

### Nationwide Children's Hospital, Columbus, Ohio (July 2006 – May 2008)

Project Executive: Responsible for coordinating outside Architects and Engineers to design a new Replacement Hospital (\$585M), new Central Energy Plant and Underground Utility Tunnels (\$70.5M), and expansion / remodel of existing Central Loading Dock (\$5M), evaluating and working with Consulting Engineers to upgrade existing primary site utilities to support the campus site utility Master Plan

### Karlsberger Architects, Columbus, Ohio (January 1990 – March 2006)

Vice President, Sr. Project Architect: Responsible for managing team of Architects and Consulting Engineers to plan multiple hospital projects around the country. Projects ranged in size from \$250K to \$78M. Partial list of projects include:

Nationwide Children's Hospital, Columbus, Ohio  
Children's National Medical Center, Washington, DC  
St. Louis Children's Hospital, St. Louis, Missouri  
Children's Hospital of Philadelphia, Philadelphia, Pennsylvania  
Pittsburgh Children's Hospital, Pittsburgh, Pennsylvania  
OSF Children's Hospital, Peoria, Illinois  
St. Vincent Charity Hospital, Cleveland, Ohio  
Berger Community Hospital, Circleville, Ohio  
Mercer Joint Township Community Hospital, Coldwater, Ohio

### Morrison Incorporated, Mobile, Alabama (December 1988 – October 1989)

Director of Architecture: Responsible for staff of 6 Architects, 1 Designer and 2 AutoCAD Operators. Negotiated with developers, city and building officials for new store locations. Review and approve building samples and products.

### Wendy's International, Dublin, Ohio (July 1984 – December 1988)

Manager of Architectural Services: Responsible for all corporate store drawings, new store development and remodeling existing company stores in North America. Assisted franchises with architectural and engineering related programs. Negotiated national building supply contracts.

### **Professional Affiliations**

American Institute of Architecture, (AIA – Local, State and National Chapters)  
National Council of Architectural Registration Boards (NCARB)



**CHARLES J. SCRIPP JR.**  
*Project Manager*

*Roofing Services & Building Envelope Department*

***Expertise***

Mr. Charles Scripp is the Roofing Services Project Manager at CTL Engineering's corporate headquarters in Columbus, Ohio. Charles Scripp has extensive experience as a Project Manager and Administration of roofing & building envelope projects. Responsibilities include preparation and oversight of construction documents, bid documents, specification writing, bid procedures, construction budgets, project detailing, project administration, contractor payment authorization, construction inspections and owner representative.

Other responsibilities include: roof, waterproofing, and building envelope audits, investigations, evaluations and troubleshooting for solutions.

***Education***

Ohio State University, Columbus, Ohio  
Numerous Roofing and Building Envelope related seminars  
31 years of roofing and building envelope related construction fields

***Experience***

*A partial listing of Mr. Scripp's relevant project experience includes:*

*Roof Conditions Surveys, Audits or Investigations*

Berea School District, Numerous Locations - Berea, Ohio  
Miami University, Pearson Hall - Oxford, Ohio  
Sonic Automotive – Vienna, Virginia  
Sonic Automotive – Detroit, Michigan.  
Colonel Crawford Jr. Sr. H. S. – North Robinson, Ohio  
Pickaway Correctional Institute – Orient, Ohio  
Aynsley Court Condominiums – Westlake, Ohio  
WECTEC LLC, Manor Park Facility – Columbus, Ohio  
Grubb & Ellis, Tuttle Crossing – Columbus, Ohio  
Groveport Village Town Hall - Groveport, Ohio  
Broad Brunson Place Condominiums – Columbus, Ohio  
U.S.S. Great Lakes Works, 240 buildings - Ecorse, Michigan  
Huntington Bank, 20 projects - Throughout Ohio (Parma, Strongsville, Berea, Cleveland, Solon)  
Cincinnati Music Hall - Cincinnati, Ohio  
The Ohio State University, Preliminary Budgets for 10 Buildings – Columbus, Ohio  
Fairfield Union Jr. Sr. H. S. - Lancaster, Ohio  
Kobacker Associates, Inc., 16 buildings - OH, VA, PA, MI, Ill, WV, IN, & NY  
Parkview Condominium Association - Lewis Center, Ohio  
Third Federal Savings & Loan, 5 buildings – Cleveland, Ohio



Window, Masonry & Foundation Surveys, Audits or Investigations

Mount Carmel West, Ambulatory Center, Stucco Walls – Columbus, Ohio  
Case Western Reserve University, Parking Garage Deck – Cleveland, Ohio  
Huntington National Bank, Window Walls – Lima, Ohio  
Huntington National Bank, Windows & Masonry Walls – Holland, Ohio  
Huntington National Bank, Foundation Waterproofing – Lima, Ohio  
Huntington National Bank, Foundation Waterproofing – Wadsworth, Ohio  
Huntington National Bank, Foundation & Steps Waterproofing – Ashland, Ohio  
Huntington National Bank, Windows – Strongsville, Ohio  
Kenston High School, Masonry Walls – Bainbridge TWP., Ohio  
Cincinnati Music Hall, Elevator Shaft Walls – Cincinnati, Ohio  
Sunbridge Harbor Side Healthcare, Windows & Walls (EIFS) – Broadview Heights, Ohio  
Dublin Surgical Center, Windows & Masonry Walls – Dublin, Ohio  
UPS Facility, Walls – Lima, Ohio  
Grubb & Ellis, Tuttle Crossing, Windows – Columbus, Ohio  
Prime Medical Group, Riverside Health Center, Windows & Masonry Walls – Columbus, Ohio  
Wal-Mart, Sam's Club, Masonry walls – West Allis, Wisconsin  
George Igel Company, Inc., Building Envelope – Columbus, Ohio  
Athletic Club of Columbus, Foundation Walls & Basement Ceiling Deck – Columbus, Ohio  
Berea H. S., Gymnasium. Masonry Walls & Glass Block Windows – Berea, Ohio

Preparation of Contract Documents (Drawings, Specifications, Etc.)

Huntington National Bank, 5 projects (roofs, foundations, waterproofing, stairs, windows), Ohio  
Aynsley Court Condominiums, Roof Replacement - Westlake, Ohio  
Shallotte National Guard, Shallotte, Roof Replacement - North Carolina  
Broad Brunson Place Condominiums, 10 Year Budget Forecast for Repairs - Columbus, Ohio  
Grubb & Ellis, Tuttle Crossing, Window Repairs - Columbus, Ohio  
Allen Correctional Institute, 6 Buildings, Roof Replacements - Lima, Ohio  
Battelle Memorial Institute, Building 9, Roof Replacement - Columbus, Ohio  
Groveport Village Town Hall, Extensive Building Renovations - Groveport, Ohio  
Allen County Library, Roof Replacement – Lima, Ohio  
Lima Civic Center, Roof Replacement – Lima, Ohio  
Farmers New World Life Insurance, Plaza Deck & Stairs Waterproofing – Columbus, Ohio  
Ohio State Highway Patrol, District 7 Headquarters, Roof Replacement – Cambridge, Ohio  
Sinclair Community College, Waterproofing – Dayton, Ohio  
Worthington Schools, 2 buildings, Roof Replacement – Worthington, Ohio  
Parkview Condominium Association, Building Envelope – Lewis Center, Ohio  
The Ohio State University, Numerous Roof Replacements – Columbus, Ohio  
Ohio University, Stocker Center Roof Replacement – Athens, Ohio  
Ohio Department of Mental Health, Behavioral Health Care, Roof Replacement – Athens, Ohio  
Berea School District, 7 Projects – Berea, Ohio



**CHARLES J. SCRIPP JR.**  
*Project Manager*

*Roofing Services & Building Envelope Department*

*Construction Observation/Quality Assurance Observations*

Groveport Village Town Hall, Groveport, Ohio  
AEP New Albany Facility, New Albany, Ohio  
Huntington Center, Columbus, Ohio  
Columbus State University, Columbus, Ohio  
Casto, Broad & High Building, Columbus, Ohio  
Pickaway Ross Career Center, Chillicothe, Ohio  
SBC Corporation Real Estate, Aberdeen, Ohio  
Kenston High School, Bainbridge TWP., Ohio  
Rathburn Village Condominiums, Columbus, Ohio  
Casto, Mattress Mart, Reynoldsburg, Ohio  
Taylor Park LTD., Reynoldsburg, Ohio  
Pickaway Correctional Institute, Orient, Ohio  
Broad Brunson Place Condominiums, Columbus, Ohio

*Laboratory Testing: Physical Quantitative Analysis*

SBC Corporation, 13 facilities, Ohio  
Buckeye Middle School, Columbus, Ohio  
Northland High School, Columbus, Ohio  
Regency Construction, Fairview Park H.S., Fairview Park, Ohio  
Fairfield Union Jr. Sr. H. S., Lancaster, Ohio  
The Ohio State University, Postle Hall, Columbus, Ohio

*Nuclear Survey Audits or Investigations*

AEP New Albany Facility, Nuclear Scan, New Albany, Ohio  
Builder Exchange, Nuclear Scan, Columbus, Ohio  
Allen Correctional Institute, Nuclear Scan, Lima, Ohio  
The Ohio State University, Nuclear Scan, Columbus, Ohio  
Third Federal Savings & Loan, (5 buildings), Cleveland, Ohio  
Ohio Department of Mental Health, Behavioral Health Care, Athens, Ohio

*Infrared Survey Audits or Investigations*

Schottenstein Center, Ohio State University, Infrared Scan, (walls & windows), Columbus, Ohio  
Cincinnati Music Hall, Infrared Scan, (roof), Cincinnati, Ohio  
Lazarus Store Facility, Infrared Scan, (roof), Columbus, Ohio  
State Teachers Retirement Building, Infrared Scan (sidewalk snow melt) – Columbus, Ohio  
Wal-Mart, Infrared Scan (freezer walls & slab deficiencies) – Norwalk, Ohio  
Farmers New World Life Insurance, Infrared Scan, (plaza deck & stairs) – Columbus, Ohio



## **Jeremy S. Rose**

*Technician Supervisor/ Construction Services Mgr/  
Senior Engineering Field Technician*

### ***Expertise***

Mr. Rose has 11 years of relative experience providing construction materials testing & inspection services. Mr. Rose's primary responsibilities have included supervision and training of engineering technicians performing construction materials testing and observation for commercial, industrial and government projects.

### ***Education***

Nitro High School, Nitro, West Virginia, 1997

### ***Professional Registrations / Certifications***

Fairmont State Transportation Engineering Technician Level II  
ACI Level Concrete Technician Certification  
West Virginia Division of Highways Compaction Technician  
West Virginia Division of Highways Portland Cement Concrete Inspector  
West Virginia Division of Highways Portland Cement Concrete Technician  
West Virginia Division of Highways Aggregate Sampling Inspector  
MSHA 40 Hour Safety Training  
Radiation Safety Certification - Humboldt

### ***Project Experience***

#### Transportation

- US RT.35 Design Build, Putnam County, WV
- US RT. 35 8 Mile, Mason County, WV
- US RT. 50 Corridor D, Parkersburg, WV
- Pomeroy/Mason Bridge, Pomeroy, Ohio to Mason, WV
- I-77 South Sound Barrier Wall, Canton, Ohio
- Sistersville Bridge Replacement , Sistersville, WV
- U.S RT 50 Corridor H, Grant County, WV
- Buckhannon Airport Service Road, Buckhannon, WV
- Jackson County Airport Taxi Addition, Jackson County, WV
- Kenova Airport Runway Addition, Kenova, WV
- Marmet Lock and Dam Replacement, Belle, WV

#### Education

- Mann K-8 , Mann, WV
- George Washington High School Addition, Kanawha County, WV
- Brooke County High School Addition, Brooke County WV
- Phillipi High School Addition, Barbour County, WV
- Nitro High School Gym Addition, Kanawha County, WV
- St. Albans High School Addition, Kanawha County, WV





## **Jeremy S. Rose**

*Technician Supervisor/ Construction Services Mgr/  
Senior Engineering Field Technician*

### Healthcare

- Thomas Hospital Office Addition, South Charleston WV
- Scaff Medical Building, Kanawha City, WV

### Water/Wastewater Treatment Plants and Water Tanks

- Belle Waste Water Treatment Plant, Belle, WV
- Holden Water Tank Storage, Holden, WV
- South Charleston Waste Water Treatment Plant Lift Station, South Charleston, WV
- Dunbar Waste Water Treatment Plant, Dunbar, WV
- South Charleston Sanitary Board, South Charleston, WV
- Welch Water Tank, Welch, WV
- City of Ronceverte Water Storage, Ronceverte, WV

### Building Development

- Clay Center, Charleston, WV
- Trace Fork Shopping Center, South Charleston, WV
- Home Depot, Teays Valley, WV
- Parkersburg Ampitheater, Parkersburg, WV
- Marquee Cinema, South Charleston, WV
- South Charleston Memorial Ice Skating Rink, South Charleston, WV
- Bob Evans Restaurant, Ripley, WV
- Bob Evans Restaurant, Mason, WV
- Chief Logan Conference Center, Logan, WV

### Power & Chemical Plants

- AEP Mitchell Power Plant, Moundsville, WV
- AEP John E Amos Power Plant, Winfield, WV
- Sunoco Neal Plant, Kenova, WV
- Sun Coke Energy Plant, Haverhill, OH

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## *Relevant Experience*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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510 C Street, South Charleston, WV 25303 (304) 746 -1140, [www.ctleng.com](http://www.ctleng.com)



## RELEVANT EXPERIENCE

### Overall Experience

CTL Engineering South Charleston will provide all services in conjunction with team members located at various CTL branches. We have provided services similar to those required for a significant number of projects. Our engineers have local experience dealing with the many challenging soil and construction conditions that are common in West Virginia.

Attached are Project Experience Profiles that further illustrate our experience. These profiles include:

<u>Project Owner</u>	<u>Project</u>	<u>Location</u>	<u>Completion</u>	<u>CTL Fees</u>
Huntington National Bank	Forensic Testing	Wadsworth, OH	July 2007	\$10,259.81
Huntington National Bank	Investigation and Waterproofing	Columbus, OH	August 2006	\$6,533.85
Huntington National Bank	Investigation and Waterproofing	Ashland, OH	November 2006	\$4,956.00
Ohio Department of Mental Health	Weather Tight Facility Design	Athens, OH	2010	N/A
Farmers New World Life Insurance/ CB Richard Ellis	Investigation, Waterproofing, Design and Construction Management	Columbus, OH	November 2009	\$11,200.00

# PROJECT EXPERIENCE PROFILE

**Project:**  
Huntington Center

**Owner:**  
Huntington Bank

**Location:**  
Columbus, Ohio



View of water flood test in progress to test for leakage

## PROJECT FEATURES

CTL Engineering was retained by Hines to perform 3<sup>rd</sup> party observation and testing during a plaza deck waterproofing project. Prior to placement of the walkway pavers, flood testing was performed to ensure a water tight system. Several leaks were detected and it was discovered to be window installation deficiencies at the waterproofing terminations. CTL worked out specific detailing to correct the leak conditions.



Leakage showing up on steel below in the basement area

**Client Reference:**

Hines  
Mr. Ray Biziorek  
614-461-5881

**CTL's Fees:**

\$6,833.85

**Project Completion:**

August 2006





# PROJECT EXPERIENCE PROFILE

**Project:**

Huntington National Bank

**Owner:**

Huntington National Bank

**Location:**

Wadsworth, Ohio



Deteriorated sill stone causes water infiltration

## PROJECT FEATURES

CTL Engineering was retained to investigate numerous water leaks that occurred over time in the basement of the branch offices. CTL provided inspection and forensic testing of the building exterior and adjoining pavement. CTL was able to identify numerous conditions that contributed to the building leakage and, working with a contractor, saw that construction deficiencies were remediated to bring about a leak free facility. Work encompassed demolition of pavement, excavation, waterproofing, masonry restoration and window changes.



Effects of leakage due to various foundation problems

**Client Reference:**

Huntington National Bank  
Mr. Neal Woolbright  
(216) 276-6810

**CTL's Fees:**

\$10,259.81

**Project Completion:**

July 2007



# PROJECT EXPERIENCE PROFILE

**Project:**

Huntington National Bank

**Owner:**

Huntington National Bank

**Location:**

Ashland, Ohio



Ponding water travels into basement due to lack of waterproofing beneath entry

## PROJECT FEATURES

CTL Engineering was retained to investigate the causes of water intrusion due to hard driving rains at interior wall locations, masonry wall locations and in the basement below the doorway entrance area (exterior area above basement). Remediation plans were developed and a contractor was obtained to perform the scope of work. This scope of work entailed removal and resetting of exterior granite steps and reinforcement for, and new concrete pad at, the exterior of the doorway with new waterproofing for below grade conditions. In addition, all new structural reinforcement at the basement area below the entrance portion was finished with new tile and eliminated basement windows and grating. The facility is now leak free.



Corrosion due to moisture infiltration causing structural concern below the entryway

**Client Reference:**

Huntington National Bank  
Mr. Neil Woolbright  
(216) 276-6810

**CTL's Fees:**

\$4,956.00

**Project Completion:**

November 2006





## PROJECT EXPERIENCE PROFILE

**Project:**

Appalachian Behavioral  
Healthcare Center Roof Removal and  
Replacement Project – DMH-090004

**Owner:**

Ohio Department of Mental Health

**Location:**

100 Hospital Drive; Athens, Ohio



### PROJECT FEATURES

Replacement of Roof Terrace Areas

CTL Engineering, Inc. has prepared assessments for roof and rooftop terrace areas for the Appalachian Behavioral facility to determine the solutions for the design of a weather tight facility. The assessment for this project required coordinating with mechanical design for new roof top HVAC equipment. The assessment revealed the need for special project detailing for flashing conditions to masonry, stucco, windows, curbing, shingles, concrete and paver overburdens at terrace locations and special column refurbishments. CTL then proceeded with the development of project bid documents and participated in the solicitation of bids and Contractor bid recommendations, with bids coming in under budget. The project has been completed with CTL being responsible for the construction administration phase, review of the Contractor's submittals for conformance, initial/final punch list and project closeout.



After Removal and Replacement

**Client Reference:**

Ohio Department of  
Administrative Services  
Mr. Robin Cox  
(614) 466-4761

**Project Completion:**

2010

# PROJECT EXPERIENCE PROFILE

**Project:**

State Farm Insurance  
Main Entrance Concrete Stairs  
Waterproofing & Snow Melt Systems

**Owner:**

Farmers New World Life Insurance

**Location:**

Columbus, Ohio



## PROJECT FEATURES

CTL was retained by CB Richard Ellis to investigate existing waterproofing and snow melt system failures and then to design and oversee the installation of a new waterproofing system and snow melt system at terrace and stairway areas. CTL provided onsite quality assurance observations at critical junctures throughout the project construction. Prior to placement of the terrace pavers and concrete stairs, flood testing was performed to ensure a watertight system. CTL was available to work closely with the contractors throughout the project to respond to queries from the contractors and to ensure the project was installed as designed meeting all of the project challenges for a quality installation.

**Client Reference:**

CB Richard Ellis  
Mr. Chris Smith  
(614) 203-3437

**Project Completion:**

November 2009

**CTL's Fees:**

\$11,200





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# *References*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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510 C Street, South Charleston, WV 25303 (304) 746 -1140, [www.ctleng.com](http://www.ctleng.com)

## *REFERENCES*

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Listed below are three 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.

<u>Name</u>	<u>Client</u>	<u>Telephone</u>	<u>Project</u>
<b>Mr. Chris Smith</b>	<b>CB Richard Ellis</b>	<b>(614) 203-3437</b>	<b>State Farm Ins.</b>
<b>Mr. Robin Cox</b>	<b>Ohio Department of Administrative Services</b>	<b>(614) 466-4761</b>	<b>Appalachian Behavioral</b>
<b>Mr. Ray Biziorek</b>	<b>Huntington National Bank</b>	<b>(614) 461-5881</b>	<b>Huntington Center</b>
<b>Mr. Neil Woolbright</b>	<b>Huntington National Bank</b>	<b>(216) 276-6810</b>	<b>Huntington National Bank</b>



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# *Miscellaneous Documents*

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*WV Cultural Center*

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*Repair of Exterior Waterproofing System - DCH12070*

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State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DCH12070**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**SHELLY MURRAY**  
**304-558-8801**

RFQ COPY

TYPE NAME/ADDRESS HERE

*CTL Engineering of WV, Inc.*  
*510 C Street*  
*South Charleston, WV 25303*  
*# 709052432*

DIVISION OF CULTURE & HISTORY

CULTURAL CENTER  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/25/2012				

BID OPENING DATE: **02/09/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
<p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF CULTURE &amp; HISTORY, IS SOLICITING EXPRESSION OF INTERESTS FOR PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES FOR THE REPAIR OF THE WATERPROOFING SYSTEM AT THE CULTURAL CENTER LOCATED IN CHARLESTON, WV PER THE ATTACHED SPECIFICATIONS.</p>						
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT BY THE STATE OF WEST VIRGINIA, ITS AGENCIES, OR POLITICAL SUBDIVISIONS, THE TERMS, CONDITIONS, AND PRICING SET FORTH HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David E. Mare</i>	TELEPHONE <i>(304) 746-1140</i>	DATE <i>2/9/2012</i>
TITLE <i>P.E. Branch Manager</i>	FEBIN <i>55-0631834</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.html](http://www.state.wv.us/admin/purchase/vrc/hipaa.html) and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DCH12070**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**SHELLY MURRAY  
 304-558-8801**

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

*CTL Engineering of WV, Inc.  
 510 C Street  
 South Charleston, WV 25303  
 #709052432*

SHIP TO

DIVISION OF CULTURE & HISTORY

CULTURAL CENTER  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/25/2012				

BID OPENING DATE: **02/09/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERE TO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *David E. Moore* TELEPHONE **(304) 746-1140** DATE **2/9/2012**  
 TITLE **P.E., Branch Manager** FEIN **55-0631834** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'





State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DCH12070**

PAGE  
**3**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**SHELLY MURRAY**  
**304-558-8801**

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

*CTL Engineering of WV, Inc.*  
*510 C Street*  
*South Charleston, WV 25303*  
*#70952432*

SHIP TO

DIVISION OF CULTURE & HISTORY

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 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305-0300 558-0220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/25/2012				

BID OPENING DATE: **02/09/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UQP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: SHELLY MURRAY</p> <p>RFQ. NO.: DCH12070</p> <p>BID OPENING DATE: 02/09/2012</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:  <i>(304) 746-1143</i></p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):  <i>David Moore, P.E., Branch Manager</i></p> <p>***** THIS IS THE END OF RFQ DCH12070 ***** TOTAL: <u><i>N/A</i></u></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David Moore</i>	TELEPHONE <i>(304) 746-1140</i>	DATE <i>2/9/2012</i>
TITLE <i>D.E. Branch Manager</i>	FEIN <i>55-0631834</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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 exceeds 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 OF WEST VIRGINIA, INCAuthorized Signature: *Cassio D. Canterbury* Date: 02/07/2012State of WEST VIRGINIACounty of KANAWHA, to-wit:Taken, subscribed, and sworn to before me this \_\_\_ day of FEBRUARY, 2012.My Commission expires 4 APRIL, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC *Cassio D. Canterbury*