



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

[List View](#)

General Information [Contact](#) [Default Values](#) [Discount](#) [Document Information](#) [Clarification Request](#)

Procurement Folder: 1403403

SO Doc Code: CEOI

Procurement Type: Central Purchase Order

SO Dept: 0310

Vendor ID: 000000173443

SO Doc ID: DNR2400000007

Legal Name: POTESTA & ASSOCIATES INC

Published Date: 4/1/24

Alias/DBA:

Close Date: 4/17/24

Total Bid: \$0.00

Close Time: 13:30

Response Date: 04/17/2024

Status: Closed

Response Time: 10:58

Solicitation Description: A&E - Little Beaver & Twin Falls SP Campground Improvements

Responded By User ID: Potesta

Total of Header Attachments: 1

First Name: Dana

Total of All Attachments: 1

Last Name: Burns

Email: clracer@potesta.com

Phone: 3043421400



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

State of West Virginia
Solicitation Response

Proc Folder: 1403403
Solicitation Description: A&E - Little Beaver & Twin Falls SP Campground Improvements
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2024-04-17 13:30	SR 0310 ESR04172400000006099	1

VENDOR
000000173443
POTESTA & ASSOCIATES INC

Solicitation Number: CEOI 0310 DNR2400000007
Total Bid: 0
Response Date: 2024-04-17
Response Time: 10:58:30
Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor		
Signature X	FEIN#	DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional engineering services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

Design and contract administration services of campground improvements at Little Beaver State Park.

STATEMENT OF QUALIFICATIONS



WEST VIRGINIA
PREPARED
FOR: **DNR**

Division of Natural Resources
Parks & Recreation—PEM Section
324 4th Avenue
South Charleston, WV 25305

A&E—LITTLE BEAVER AND TWIN FALLS SP CAMPGROUND IMPROVEMENTS



**OFFICES
IN:** **CHARLESTON**
7012 MacCorkle Avenue, SE
Charleston, WV 25304
(304) 342-1400

MORGANTOWN
125 Lakeview Drive
Morgantown, WV 26508
(304) 225-2245

WINCHESTER
15 South Braddock Street
Winchester, VA 22601
(540) 450-0180

TABLE OF CONTENTS

Required Documents 1

Corporate Information..... 8

Project and Goals 11

Qualifications 15

Similar Experience..... 31

Past Performance 46

Additional Documents..... 50

APPENDIX

Resumes and Certifications..... A



REQUIRED DOCUMENTS





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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1403403			Reason for Modification:
Doc Description: A&E - Little Beaver & Twin Falls SP Campground Improvements			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-04-01	2024-04-17 13:30	CEOI 0310 DNR2400000007	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000173443
Vendor Name : Potesta & Associates, Inc.
Address : 7012
Street : MacCorkle Avenue, SE
City : Charleston
State : West Virginia **Country :** USA **Zip :** 25304
Principal Contact : Dana L. Burns, PE, PS, Vice President
Vendor Contact Phone: 304-342-1400 **Extension:**

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X *Dana L. Burns*

FEIN# 31-1509066

DATE 04/15/2024

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
The Acquisition and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for Division of Natural Resources, from qualified firms to provide architectural/engineering services as defined herein.
PROJECT: The purpose of the project for which Expression(s) of Interest are being solicited is to provide necessary engineering, and other related professional services to design, specify and provide construction contract administration services for the construction of repairs and improvements to the Black Oak campground at Little Beaver State Park in Raleigh County and the campground at Twin Falls State Park in Wyoming County, West Virginia, per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV 25305 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Professional engineering services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
Design and contract administration services of campground improvements at Little Beaver State Park.

SCHEDULE OF EVENTS		
Line	Event	Event Date

	Document Phase	Document Description	Page 3
DNR2400000007	Final	A&E - Little Beaver & Twin Falls SP Campground Improvements	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) _____

(Address) _____

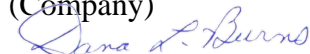
(Phone Number) / (Fax Number) _____

(email address) _____

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

(Company)



(Signature of Authorized Representative)

(Printed Name and Title of Authorized Representative) (Date)

(Phone Number) (Fax Number)

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company



Authorized Signature

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Potesta & Associates, Inc.

Address: 7012 MacCorkle Avenue, SE, Charleston, WV 25304

Name of Authorized Agent: Dana L. Burns Address: 7012 MacCorkle Avenue, SE, Charleston, WV 25304

Contract Number: CEOI 0310 DNR2400000007 Contract Description: A&E - Little Beaver & Twin Falls SP Campground

Governmental agency awarding contract: West Virginia Division of Natural Resources

☐ Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (*attach additional pages if necessary*):

1. Subcontractors or other entities performing work or service under the Contract

☐ Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

☐ Check here if none, otherwise list entity/individual names below.

Ronald Potesta
Dana Burns

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

☐ Check here if none, otherwise list entity/individual names below.

Signature: *Dana L. Burns* Date Signed: 04/15/2024

Notary Verification

State of West Virginia, County of Kanawha:

I, Dana L. Burns, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 15th day of April, 2024.

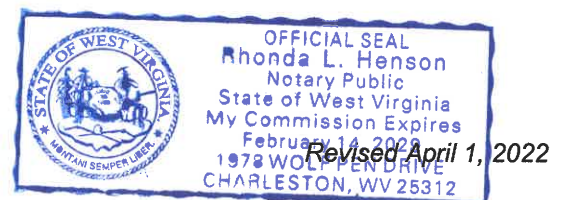
Rhonda L. Henson
Notary Public's Signature

To be completed by State Agency:

Date Received by state agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



CORPORATE INFORMATION



STATEMENT OF QUALIFICATIONS

CORPORATE INFORMATION



BRIEF HISTORY OF FIRM

Established by Mr. Ronald Potesta, Potesta & Associates, Inc. (POTESTA) operates as a comprehensive engineering and environmental consulting firm. Since the beginning, POTESTA has consistently delivered high-quality engineering and environmental consulting services across the Mid-Atlantic region. Our team comprises a diverse staff of experienced engineers, scientists, and support personnel, with branch offices situated in Winchester, Virginia, and Morgantown, West Virginia. Our clientele spans various sectors, including local, state, and federal agencies, as well as mining, manufacturing, and chemical companies, utility companies, waste management firms, land developers, attorneys, financial institutions, insurance companies, K-12 schools, colleges, universities, construction companies, and architects.



VARIED RANGE OF PROFESSIONAL SERVICES

- Air
- Biological and Toxicological
- Civil Engineering and Design
- CADD
- Construction Monitoring
- Endangered Species Consultation
- Environmental Site Assessment
- Environmental-Reclamation Liability Assessments
- GIS
- Geotechnical Engineering
- Groundwater
- Hydrology and Hydraulics Design
- Landfills and Solid Waste Management
- Land Management
- Litigation Support
- Permitting
- Remedial
- Risk-Based Remediation
- Roadway Engineering
- Sampling
- Site Design
- Solar Development
- Storage Tanks
- Stormwater Management
- Stream Restoration
- Surveying and Mapping
- Water/Wastewater Engineering
- Water Quality Studies
- Wetlands

STATEMENT OF QUALIFICATIONS

CORPORATE INFORMATION



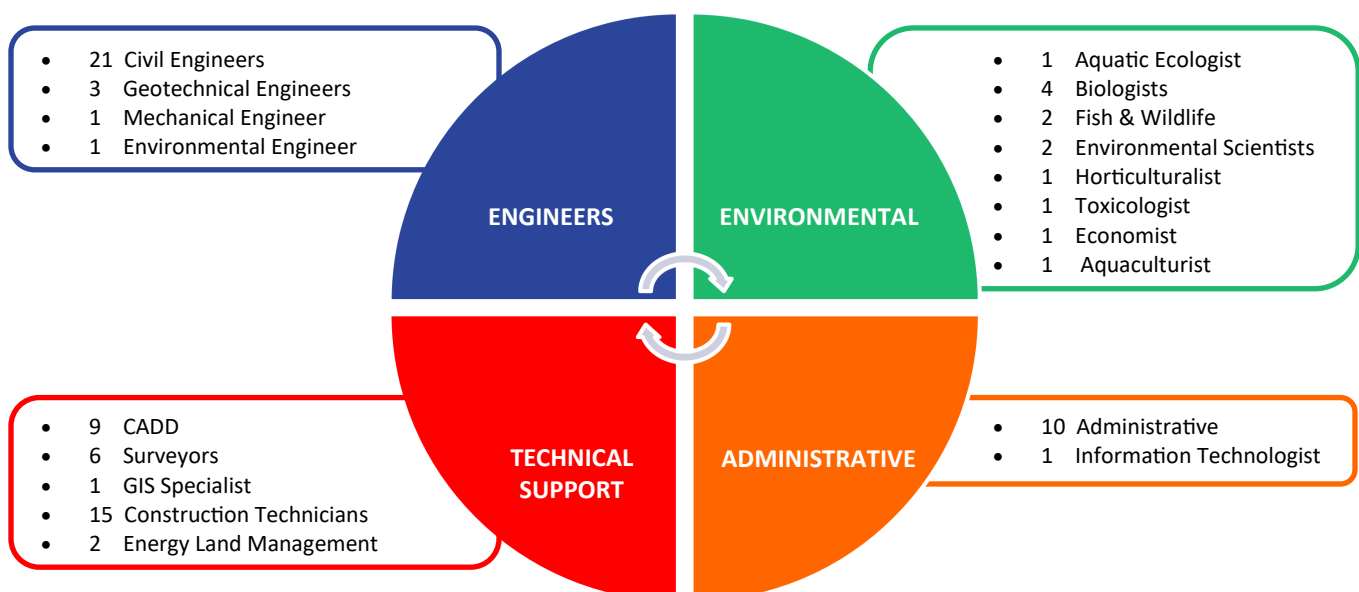
LEADERSHIP

As the President of the company, **Mr. Ronald R. Potesta** brings a wealth of experience, having served as the Director and Deputy Director of West Virginia's Department of Natural Resources (WVDNR). Throughout his tenure, WVDNR encompassed all environmental regulatory programs, wildlife management, and law enforcement. Mr. Potesta specializes primarily in federal and environmental regulatory matters, statutory schemes, and environmental guidance. His expertise includes agency interaction, as well as the review of regulatory requirements and recommendations.

Dana L. Burns, PE, PS, Vice President, boasts over 45 years of expertise in overseeing civil, geotechnical, mining, and environmental engineering projects. His extensive experience spans the management of various projects, including preliminary feasibility evaluations, detailed design, and the preparation of construction drawings, specifications, and bid documents. Serving as the Principal-in-Charge on numerous projects, he has successfully completed assignments for diverse clients, including local and state governments, municipalities, public service districts, utility providers, residential and commercial developers, as well as universities/colleges and manufacturing facilities.

David K. Paylor, Vice President of Environmental, brings over 45 years of dedicated public service in safeguarding natural resources within the Commonwealth of Virginia. For the past 16 years, he served as the Director of the Virginia DEQ, appointed by Governors Tim Kaine, Bob McDonnell, Terry McAuliffe, and Ralph Northam. Mr. Paylor's extensive expertise encompasses waste management, measurement of water quality and quantity, air quality management, climate control, pollution prevention, and a commitment to environmental justice. Mr. Paylor joined the firm in 2022 and Mr. Paylor contributes technical and policy expertise, particularly focusing on environmental permitting in Virginia.

STAFF PROFILE: 83 TOTAL



PROJECT AND GOALS



STATEMENT OF QUALIFICATIONS

PROJECT AND GOALS



POTESTA is pleased to present our Statement of Qualifications to the West Virginia Division of Natural Resources (WVDNR) to provide necessary engineering and other related professional services to design, specify, and provide construction administration services for the construction of repairs and improvements to the Black Oak campground at Little Beaver State Park in Raleigh County and the campground at Twin Falls State Park in Wyoming County, West Virginia. Tourism to state parks in West Virginia is significant due to the state's abundant natural beauty and diverse recreational opportunities. The State Parks play a vital role in the economy, support of local businesses, job creation, and community development in West Virginia. Repairs and improvements at the campgrounds are necessary for preservation, visitor safety and satisfaction, and to support environmental conservation and outdoor recreation for West Virginians and visitors. POTESTA possesses the necessary knowledge and expertise to offer comprehensive services, evaluating project requirements and constraints to plan, design, permit, and inspect site development and associated infrastructure. This includes utilities, stormwater management, access roads/streets, and site grading.

- North Bend State Park—Improvements to the wastewater collection and treatment system. Wastewater issues include the lodge, pool area, campground, cabins, shelter area, and wastewater treatment plant.
- 29 Public Shooting Ranges—Evaluation and development of lead management plans and facility improvement recommendations.
- Palestine Fish Hatchery—Upgrade of the hatchery including the proposed 9,000 SF building including site grading for building pad, parking areas, and access drive.



Little Beaver State Park's campground has a total of one camping cabin, 46 camp sites including 16 with water hookups and 30 with electric and water, and a large, primitive group camping area. Twin Falls Resort State Park has 14 cabins, 50 campsites including 25 with electric hookups, and a 47-room mountaintop lodge. Over time, facilities and infrastructure can deteriorate and regular maintenance and upgrades are necessary to keep systems functioning and ensure the safety of visitors and staff. West Virginia State Parks continue to see a rise in visitors and many require expansion to its facilities to accommodate the higher demand.

POTESTA understands engineering services required may include any or all of the following:

- | | | |
|-----------------------------------|----------------------------------|-------------------------------|
| • Site Assessment | • Geotechnical Services | • Environmental Permitting |
| • Preliminary Design/Final Design | • Roadways | • Regulatory Compliance |
| • Site Layout | • Infrastructure Design/Upgrades | • Bidding Assistance |
| • Site Preparation | • Surveying/Mapping | • Construction Documents |
| • Water Management | • Funding Applications | • Construction Administration |
| | | • Construction Monitoring |

STATEMENT OF QUALIFICATIONS

PROJECT AND GOALS



UNDERSTANDING OF PROJECT

Campsite and campground road alterations, repairs, and improvements at the Black Oak campground at Little Beaver State Park and the campground at Twin Falls State Park include the following:

- Site, road, and layout must be upgraded to meet the standard design allowing for the accommodation of today's larger RVs and trailers.
- Development of overall campground site plan to improve campground layout, numbering of sites, and individual campsite design.
- Campsite upgrades including, but not limited to, 50 amp electrical service, water hook up, picnic table, fire ring, campsite pad improvements, and gravity fed sewer hook ups.



POTESTA has worked on numerous recreational engineering projects throughout West Virginia including parking, campground, and trail enhancement projects, stream restoration and wetland delineation projects, WVDEP Abandoned Mine Lands-funded economic development, reclamation, and drinking water projects, site grading and stormwater plans for a variety of recreational, commercial, and residential developments, and a variety of infrastructure and construction projects that require state and federal permitting.

GOAL/OBJECTIVE 1

Review conditions and operation of the facility while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility/structures and meet all objectives.

To efficiently design campground layouts, POTESTA must understand the needs of the campers and the natural surroundings at each state park.

- Review available historical design plans/specifications provided by WVDNR.
- Electric, potable water, and sanitary sewer facilities are especially of interest to determine how to provide services for the upgrades and/or replacements.
- Complete a site visit to review the existing utility service details with the facility maintenance group and to make additional observations in the campground areas.
- Development of a conceptual site sketch of the proposed upgrades with location of campsites and campground layout. Adjustments to the conceptual plan will be made based on comments provided by WVDNR and the revised conceptual plan will be provided to WVDNR.

GOAL/OBJECTIVE 2

As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with the Division of Natural Resources needs, objectives, current law, and current code while following the plan to design and execute the project within the project budget and time requirements.

STATEMENT OF QUALIFICATIONS

PROJECT AND GOALS



GOAL/OBJECTIVE 2

POTESTA will take into consideration several factors while designing the repairs and improvements at the campgrounds including amenities placement, accessibility, environmental disruptions, safety, scenic views, and community spaces.

- Site Assessment—Assessing the current conditions of the campgrounds including topography, soil stability, drainage patterns, etc.
- Geotechnical Exploration—Determine soil stability, foundation design, slope stability, drainage design, potential environmental impacts, and geotechnical hazards and risks.
- Civil/Site Design—Develop the design utilizing information obtained during previously described tasks and a site grading plan. POTESTA will prepare technical specifications and assemble a project manual containing the technical bid documents. This will also include the preparation of an engineer's opinion of probable construction cost estimate for repairs/upgrades. Plans, specifications, and engineer's construction cost estimate submitted to WVDNR to review and comment. Upon receipt of WVDNR feedback, POTESTA will finalize the plans and revise the engineer's construction cost estimate to submit signed and sealed.
- Permitting—Before implementing campground improvements, permits may be required to comply with regulatory requirements.
- Bidding Assistance—Attend a pre-bid meeting to provide a technical overview of the proposed construction. POTESTA will review bidder questions and develop responses for the addendum.

GOAL/OBJECTIVE 3

Provide Construction Contract Administrative Services with competent professionals that ensures the project is constructed and functions as designed.

- Attend pre-construction conference.
- Review underground facilities not shown on contract documents to determine potential changes to contract documents.
- Review substitutes and "or equal" items, and issue written acceptance/denials.
- Review and approve shop drawings and samples (if required), including review of revised shop drawings if necessary.
- Review contractor work plan, if required by specification special conditions.
- Attend progress meetings and as needed meetings.
- Issue written clarifications or interpretations of the requirements of the contract documents, including issuance of additional specifications and drawings.
- Provide a nearly full-time representative to observe construction for compliance with the contract documents and observe testing by the contractor and record results on appropriate forms.
- Prepare weekly reports summarizing construction activities.
- Prepare change orders for the work, including issuance of additional specifications and drawings, if necessary.
- Review contractor invoices (i.e., Applications for Payment) and issue written recommendations for payment or denial.
- Issue Certificate of Substantial Completion to the Agency, as typically required by the contract documents.
- Provide record drawings showing "as-built" features.

QUALIFICATIONS



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



CIVIL ENGINEERING/SITE DESIGN

POTESTA has completed a variety of site development projects with design aspects surrounding camp sites, public access, parking, facilities, stormwater design, utility design (drinking water, power/telecom, etc.), geotechnical evaluation and design, design and permitting for natural stream/pond projects including those within the floodplain, environmental sampling, endangered species investigations, reclamation designs for WVDEP AML, and detention pond designs. Our diverse staff, consisting of engineers, geologists, and scientists, actively engages in these project types. They collaborate closely with project teams on a daily basis, working towards the successful completion of projects that align with and exceed the client's expectations.

Beyond providing engineering services, POTESTA is uniquely equipped to deliver environmental consulting and ensure regulatory compliance, essential components for projects of this nature. The majority of projects undertaken by POTESTA necessitate regulatory support. Our team possesses a working knowledge of the level of detail required to secure approvals for successful project outcomes.

PRELIMINARY ENGINEERING

- Phase I Environmental Site Assessments
- Floodplain Determination
- Geotechnical Explorations
- Foundation Recommendations
- Surveying
- GIS Mapping
- Utility Planning
- Earthwork Evaluations
- Opinion of Probable Costs/Engineer's Construction Cost Estimate
- Permitting

DESIGN SERVICES

- Geometric Site Layout
- Vehicular and Pedestrian Circulation
- Grading and Drainage Plans, Including Excavation and Fill Optimization
- Access Road Design
- Hydraulic Structure Design
- Water and Sewer Design
- Earth Retaining Structures Design
- Slope Stability Analysis
- Subsurface Drainage System Design
- Construction Drawings, Specifications, and Contract Document Preparation



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



WATER AND WASTEWATER ENGINEERING—SITE DESIGN

POTESTA has vast experience in designing water supply and wastewater systems tailored to the specific needs of the development site, including selecting appropriate treatment technologies, sizing pipelines, and designing stormwater management systems. POTESTA's staff has a diverse range of experience and knowledge spanning project management, engineering design, regulatory compliance, construction oversight, and sustainability practices. Many of our staff previously were employed by regulatory agencies and/or industry, thus offering a unique perspective on both sides of the process. POTESTA utilizes a multidisciplinary approach and our deep understanding of both technical and regulatory aspects of water and wastewater management ensuring the sustainable administration of water resources and waste disposal systems within a designated development area.

- Comprehensive Site Assessment
- Water Supply System Design
- Assess Water Demand Projections
- Implementation of Water Conservation Measures and Sustainable Water Management
- Wastewater Collection System Design
- Select Appropriate Wastewater Treatment Technologies
- Implement Stormwater Management
- Environmental Impact Assessment
- Regulatory Compliance
- Surveying/Mapping
- Construction Oversight and Quality Assurance
- Development of Operation and Maintenance Plans of Systems



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



ROADWAY ENGINEERING

Designing roads and planning construction projects necessitates a diverse skill set and a comprehensive understanding of the standards, specifications, and approval procedures set forth by the West Virginia Division of Highways (WVDOH). POTESTA brings vast expertise in civil, environmental, and geotechnical engineering, along with hydrology and hydraulic design, to a wide array of projects. These include designing roadways for WVDOH initiatives, access roads for industrial/business parks, educational institutions, commercial enterprises, and residential developments. Additionally, we specialize in creating new roadways and enhancing existing ones through widening, incorporating turning lanes, and implementing other improvements.

- Project Conception
- Environmental Assessment
- NEPA Compliance
- Permitting
- Geotechnical Explorations and Recommendations
- Surveying/Mapping
- Alignment and Grading
- Pavement Design
- Drainage Design
- Utility Coordination
- Preparation of Construction and Right of Way Plans and Specifications
- Ensure Compliance with Accessibility Standards
- Regulatory Compliance
- Safety Features—sidewalks, crosswalks, bike lanes, signage
- Erosion Control
- Construction Stakeout
- Construction Oversight



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



HYDROLOGY AND HYDRAULICS DESIGN

POTESTA engineers possess vast experience in applying hydrology and hydraulic principles to real-world system design. These applications encompass:

- Drainage Structure Sizing—stream relocations, culverts, and channels
- Pond and Dam Design—sediment ponds and basins, spillways, design/rehabilitation, slurry impoundments, lagoons, and dams
- Detention and Retention Systems—ponds, pipes, and underground bladders
- Stormwater Management System Design
- Floodplain Management Permits/Approval
- Floodway Studies—FEMA, NFIP, flood elevation surveys/certifications, and flood routing
- Dam Break Analysis
- Hydrology Surveys
- Stream Gauging
- Rainfall and Flow Data Collection
- Stormwater Drainage System Design
- Pressure Pipe Systems
- Stream Restoration Plans
- Natural Stream Channel Design/Restoration
- Expert Witness Testimony

In executing these applications, our engineers, scientists, and surveyors collaborate closely to formulate a cost-effective and efficient solution tailored to your needs. Their analyses leverage widely accepted computer models. POTESTA typically use the following computer modeling programs:

- HEC-RAS
- HEC-HMS
- TR-20/TR-55
- StormCAD
- CulvertMaster
- FlowMaster
- PondPack
- CORMIX



We have extended these services to a diverse range of clients in both the public and private sectors. Our team not only possesses a deep understanding of technical intricacies but also boasts extensive experience in collaborating with state, federal, and local regulatory bodies. We are well-versed in the level of detail these agencies demand and can efficiently secure the required approvals within specified timelines.

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



STORMWATER MANAGEMENT AND PERMITTING

POTESTA offers comprehensive stormwater management and permitting solutions catering to diverse clientele from both public and private sectors. Our team possesses not only a deep understanding of technical intricacies but also extensive experience in collaborating effectively with state, federal, and local regulatory bodies. We are well-versed in the exacting standards these agencies demand and proficiently secure approvals within stipulated timelines.

STORMWATER PERMITTING

- WVDEP Stormwater Construction NPDES Permit
- WVDOH MM-109
- Stormwater Pollution Prevention Plan (SWPPP) Preparation and Modification
- Ground Water Protection Plan (GPP) Preparation and Modification
- Erosion and Sediment Control Plan (ESCP) Preparation
- Stormwater Discharge Water Quality Sampling and Training
- Agency Negotiation and Liaison Services
- Permit Compliance Services
- Construction and Erosion & Sediment Control Plan Related Inspection Services

STORMWATER MANAGEMENT

- Hydraulic Conveyance Structure Design (Culverts, Channels, Drop Inlets, Etc.)
- Stormwater Retention/Detention Pond Design
- Stormwater Pond Modeling
- Floodplain Identification and Management Strategies
- Hydrologic and Hydraulic Analysis and Evaluations and Modeling
- Construction Monitoring
- Surveying
- Permitting and Regulatory Liaison



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



SURVEYING

POTESTA proposes to utilize our own survey crews for work on this project. Our surveyors have worked on numerous site development, geotechnical, roadway and bridge construction, utility construction, and landfill development projects. Surveys and mapping are completed to the standards as outlined by the National Map Standards as well as other applicable quality standards. Small topographic mapping projects can be completed in-house, however, larger projects are better suited for mapping using aerial photography.

POTESTA is equipped with modern surveying instruments allowing efficient data processing and accurate gathering of field information. The latest versions of software are then used to process survey data and create drawings or required end products.

- Total Station Instruments
- Trimble R-8 Glonass
- RTK GPS Systems
- AutoCAD
- Autodesk Land Desktop
- Autodesk Civil 3D Design Software

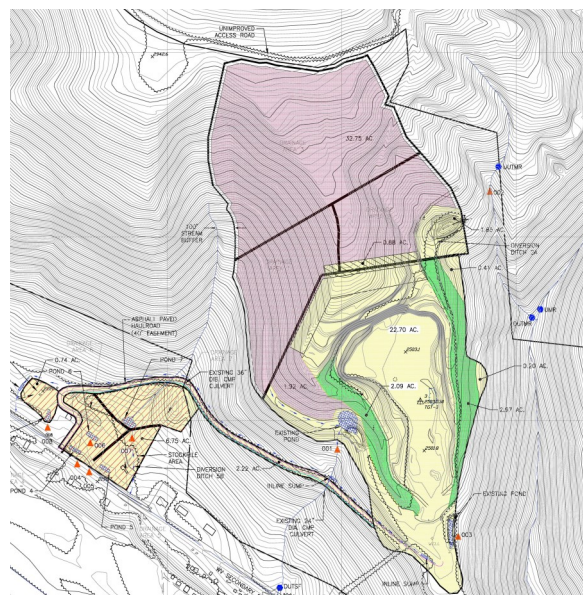


CADD

The CADD department utilizes the latest drafting/design software and computer hardware to maintain productivity at the high levels that clients demand and expect. We utilize Autodesk Civil 3D design software to prepare, revise, and manipulate drawings and engineering data efficiently. POTESTA's experienced and trained professionals allow clients' projects and assignments to be completed rapidly and at a reasonable cost.

Our CADD services include:

- Surveying data manipulation—including development of topographic mapping, cross sections, profiles, isopach drawings, etc.
- Site design—including grading plans, drainage plans, utilities plans, right-of-way plans, etc.
- Roadway design
- Water, sanitary sewer, electric, natural gas, and telecommunications design
- Permit drawings, maps, and exhibits
- Earthwork and planimetric quantity development
- Two and three dimensional graphics



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



GEOTECHNICAL ENGINEERING

POTESTA can provide field engineers and geologists who are knowledgeable using the latest technologies subsurface explorations, monitoring well and piezometer installations, foundation design recommendations, slope stability analysis, retaining walls, and remedial designs as they relate to construction, mining, waste disposal, environmental remediation, and other projects. Our knowledge of the proper procedures and familiarity with local conditions allows office and field personnel to adjust the exploration plan if unanticipated field conditions are found.



SUBSURFACE EXPLORATIONS

POTESTA's diverse staff of engineers and geologists is experienced in the many different facets of subsurface explorations. Our usual procedure is to attend an initial meeting with the client to establish requirements and expectations, conduct a preliminary site reconnaissance, and develop a recommended exploration program for your review and approval. Supplemental information from the local area is then obtained from readily available sources to assist the engineer or geologist in making final recommendations.

SLOPE STABILITY ANALYSIS AND REMEDIAL DESIGN

Slope stability is often a major concern during the design and construction phases of many projects, especially those located in the Appalachian terrain. POTESTA's engineers are familiar with the various methods utilized to predict slope stability and are capable of performing the related analyses. Slope stability is critical for many projects such as analysis of existing or proposed soil embankments, rock fills, dam analysis and design, landfill design and operation, assessing the causation of slope failure, and designing remedial measures. Analyses can involve circular or sliding block methods, interface friction angles, and estimation of the strength parameters of the soil or rock. Slope stability analyses are performed on one of the most technologically advanced computer programs available and can be modified using site specific data. POTESTA's engineers can also develop preventive measures during initial project design or recommendations to repair slope failures.

FOUNDATION DESIGN RECOMMENDATIONS

POTESTA's staff has experience with various types of foundations and will recommend the appropriate type of foundation given the anticipated application and site conditions. The different types of foundations with which our staff is familiar are spread and strip footings, steel piles, auger-cast concrete piles, drilled piers, and reinforced mats.

Preliminary foundation design recommendations and cost analyses are commonly performed during the initial phases of a project to assist in determining project feasibility. As project planning progresses, the preliminary alternatives will be revised into a final recommendation which can then be incorporated into the project's construction documents or developed as an independent package for presentation to the contractor. The final recommendation can include construction drawings, technical specifications, recommendations for allowable bearing capacity, engineer's construction cost estimate, and contractor's bid sheet.

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



CONSTRUCTION OBSERVATION/ADMINISTRATION

Support services during the engineering construction phase encompass a range of crucial activities aimed at facilitating the smooth execution of projects. POTESTA offers construction monitoring and administration services to help clients adhere to regulatory and contractual obligations. We ensure that contractor activities align with design specifications and serve as an extension of clients' staff, providing comprehensive support throughout the construction process. Construction phase support services play a vital role in for the successful completion of projects on time, within budget, and to the required quality standards.



- **Project Management**—coordinate all aspects of construction phase including scheduling, budgeting, and resource allocation. Attend pre-construction conference, progress meetings, and as-needed meetings. Prepare weekly reports summarizing construction activities.
- **Construction Supervision**—full-time construction monitoring to ensure compliance with design specifications, safety regulations, and quality standards.
- **Quality Assurance/Quality Control**—conducting tests and inspections on construction materials, inspections and identification of deficiencies in construction work, document control, regulatory compliance, and subcontractor oversight.
- **Technical Support**—troubleshooting assistance to address any challenges or issues encountered.
- **Progress Monitoring and Reporting**—tracking construction progress to identify any potential delays, and provide regular updates to client.
- **Contract Administration**—manage contracts, change orders, and claims resolutions throughout the construction process. Issue written clarifications or interpretations of the requirements of the contract documents, including issuance of additional specifications and drawings and Certificate of Substantial Completion, as typically required by the contract documents.
- **Documentation and Record-Keeping**—maintain comprehensive records of construction activities, inspections, tests, and approvals for future reference and compliance purposes.
- **Environmental Compliance**—Ensure construction activities adhere to environmental regulations and minimize impact on surrounding ecosystems.
- **Contractor Management**—Review contractor work plan, if required by specification special conditions. Review, meet, comment on and accept contractor's preliminary (and subsequent adjustments to) progress schedule, preliminary schedule of shop drawing and sample submittals, and preliminary schedule of values (for progress payments). Review contractor invoices (i.e., Applications for Payment) and issue written recommendations for payment or denial. Review substitutes and "or equal" items, and issue written acceptance/denials.
- **Community Relations**—Maintain and engage relationships with local communities and stakeholders to address concerns and provide information during the construction phase

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



REGULATORY COMPLIANCE

Beyond providing design services, POTESTA is uniquely equipped to deliver environmental consulting, an essential component for projects of this nature. Most projects carried out by POTESTA require regulatory assistance to ensure compliance with relevant regulations. Our group of engineers and environmental scientists collaborates to tackle intricate environmental issues, integrating them into the planning and construction of site development projects. It's crucial to engage in early and ongoing communication with local municipalities, state agencies, environmental agencies, and other stakeholders to identify the specific permits required for the project. POTESTA possesses a comprehensive understanding of local regulations and experience coordinating with relevant authorities for a smooth permitting process.

NEPA-RELATED SERVICES

- Aesthetics
- Noise and Air Quality Analysis
- Cumulative Impact Studies
- Endangered Species Consultation
- Floodplain Impacts
- GIS
- Historical and Archaeological Resources Consultation
- Biological Assessments/Surveys
- Phase I Environmental Assessment
- Risk Assessment
- Sampling/Remediation
- Stream and Wetland Delineation and Restoration
- Water Quality Studies

MITIGATION

- Stream Restoration Plans
- Construction Monitoring
- Post-Construction Monitoring and Reporting
- Wetland Mitigation—payment to bank/fund, creation of wetland, or protection and/or enhancement of other wetland areas
- Re-vegetation
- Stormwater Management—permeable surfaces and retention basins
- Erosion Control
- Invasive Species Management
- Cultural Resource Preservation
- Noise Reduction

PERMITTING

- Land Use and Zoning
- Right-of-Way/Easements
- Floodplain Management
- CWA Section 401/404
- NPDES Construction Stormwater
- Relocation of Utilities
- ADA Compliant
- Section 7 EDA
- Section 106 NHPA
- Wildlife and Habitat Permits



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



STREAM IDENTIFICATION/RESTORATION

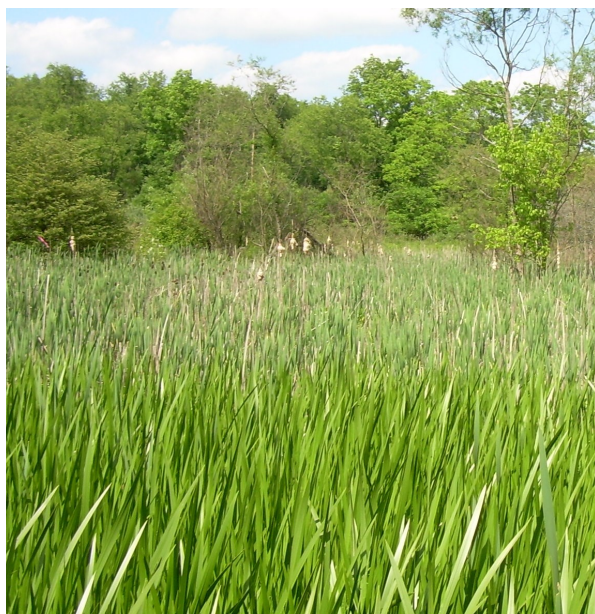
POTESTA's team of professional aquatic ecologists, biologists, and engineers collaborates to undertake diverse stream assessment and restoration projects for both private and public sector clients. Our scientists and staff have partnered with clients to deliver meticulously crafted stream restoration/rehabilitation plans. These plans encompass a range of interventions, from in-stream structure/habitat enhancements and channel realignment to bank stabilization efforts. We also offer less labor-intensive solutions, including minor bank stabilization and buffer zone establishment, tailored to specific project needs.

- Stream Delineation and Habitat Assessment
- Channel Stability Evaluation
- Biological Studies/Monitoring
- Rosgen Classification
- Riparian Corridor/Watershed Assessment
- Preliminary/Conceptual Restoration Plans
- Detailed Restoration Plans
- Construction Plans
- Reference Reach Assessments
- Mitigation Feasibility Analysis
- Construction Monitoring
- Post Construction Monitoring and Reporting

WETLAND DELINEATION/MITIGATION

Wetlands are pivotal in facilitating commercial and industrial progress, recognized as distinctive aquatic environments safeguarded by the Clean Water Act. POTESTA boasts a proficient team of scientists and engineers adept in delineating, validating, and licensing wetlands, as well as in devising strategies for displaced wetland mitigation and the construction of artificial wetlands.

Wetland investigations and delineations are conducted by POTESTA's scientists as part of pre-development site investigation and, in some instances, part of post-construction enforcement actions. During a wetland investigation the site is examined for the presence of wetland indicators, including specific hydrology, soils and vegetation. Once wetlands have been identified and delineated, POTESTA can prepare the applicable permits for further development.



Wetland mitigation and design come into play when wetlands being displaced or filled are large enough to require mitigation under state and federal standards. In some cases, wetland mitigation can be achieved solely through the payment of a fee to a mitigation bank or fund, established for the creation, protection or enhancement of other wetland areas.

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



BIOLOGICAL AND TOXICOLOGICAL SERVICES

Biological monitoring is increasingly being used in both terrestrial and aquatic systems to develop regulations, monitor compliance, and indicate the effectiveness of environmental programs. Toxicological testing and biological monitoring are often included as permit requirements, including baseline assessments, or used during negotiations. In many cases, biological surveys can be used to negotiate alternatives to permitting requirements or to satisfy regulatory agencies that no environmental impacts are occurring as a result of a specific authorized or unauthorized activity. Biological and toxicological studies may be used to demonstrate the success of endpoints in remediation, recovery, and restoration projects.

- Instream Biological Monitoring and Rapid Bioassessments using multiple species
- Variance Negotiations
- Site Specific Criteria Determinations
- Larval Fish Studies
- Industrial Site Remediation
- Toxicity Identification Evaluations
- Toxicity Reduction Evaluations
- Environmental Risk Assessments
- Human Risk Assessments
- Natural Resource Damage Assessments
- Statistical Analysis and Database Management
- Pilot-Scale Testing and Treatability Studies
- Exotic Species Control/Management



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



ENDANGERED SPECIES CONSULTATION

POTESTA has extensive experience in informal consultation, formal consultations, and biological assessments related to the Federal Endangered Species Act. We utilize a combination of in-house professionals and recognized experts to complete projects for our clients. This arrangement allows us to provide a work product which is acceptable to the United States Fish & Wildlife Service (USFWS), as well as the West Virginia Division of Natural Resources, which is the state agency responsible for species conservation.

For the last several years, our office has worked with natural gas transmission companies preparing environmental reports which include assessments and remediation of impacts to rare, threatened, and endangered species. POTESTA's biologists have worked within the core summer roosting and maternity range of the Indiana bat, the northern long eared bat, and the tri-colored bat. This work provided the firm's biologists with considerable experience in identifying suitable bat habitat in Ohio, Kentucky, Virginia, and West Virginia. Other biologists within our office also have experience in bat surveys, echo location, bat identification and mussel surveys. POTESTA also developed some of the first Protection and Enhancement Plans or PEPs for the mining industry in West Virginia.

We have established professional relationships with local and regional experts on projects which POTESTA utilizes on an as-needed basis. This approach is an advantage to the client allowing us to select the best individual for the task at hand. POTESTA supplements these individuals with our experienced field staff, who are intimately familiar with the project, to constitute an effective team to respond quickly to threatened and endangered species issues. This team approach allows for a complete evaluation of the potential impact a project may have on a species of concern.



STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



PROPOSED STAFFING PLAN

WEST VIRGINIA

DNR

DANA L. BURNS, PE, PS*

Principal-in-Charge—45 Yrs.

Directs engineering day-to-day operations and management of technical and support staff

D. MARK KISER, PE, LRS*

Project Manager—41 Yrs.

Project activities perform under his direction and maintains schedule and budget

FIELD RECONNAISSANCE, DESIGN, STORMWATER, AND CONSTRUCTION DOCUMENTS

Kyle Stollings, PE, PS* – 44 Yrs.
Jarrett Smith, PE – 22 Yrs.
Paul Maggard, PE – 25 Yrs.
Everett Mulkeen, PE – 12 Yrs.
Chad Griffith, PE – 20 Yrs.
Tim Rice, EIT – 42 Yrs.
Alex Keenan, EIT – 6 Yrs.
Daniel Boyles, EIT – 5 Yrs.
Claire McDonald, EIT – 2 Yr.
Kimbra Taylor, EIT – 7 Yrs.
Josh Messmer – 6 Yrs.
Ahmet Oruc – 1 Yr.

WATER/SEWER

Mark Sankoff, PE, PS* – 41 Yrs.
Terence Moran, PE* – 37 Yrs.
Bob Bragg, PE – 27 Yrs.
Robert Ammirato, PE – 21 Yrs.
Everett Mulkeen, PE – 12 Yrs.
Bill Cox – 26 Yrs.
Tim Ball, PE – 45 Yrs.
Joseph Dinkel – 14 Yrs.
Derek Rader – 4 Yrs.

PERMITTING, STREAM/ WETLAND, AND NEPA COMPLIANCE

Jessica Yeager – 29 Yrs.
Timothy Ferguson – 17 Yrs.
Dan Miller, PhD – 46 Yrs.
Christina Parsons – 25 Yrs.
Leah Creathers – 18 Yrs.
Cole Davis – 3 Yrs.

SURVEYING

Victor Dawson, PS – 41 Yrs.
Rusty Hunter – 42 Yrs.
Ryan Bennett, PS – 10 Yrs.
Tyler Aboytes – 9 Yrs.
Ryan Pettry – 2 Yrs.
Stephan Sayles – 2 Yrs.

CONSTRUCTION MONITORING

Francis Hyre – 42 Yrs.
Robert Lamm – 23 Yrs.
Paul Kinzer – 26 Yrs.
Charles Shaffer – 22 Yrs.
Russ Harper – 16 Yrs.
Carl Hickman – 45 Yrs.
Anthony Fragale – 46 Yrs.
Chuck Bird – 31 Yrs.
Jarrod Smith – 7 Yrs.

MAPPING/CADD

Chip Haden (GIS) – 14 Yrs.
Michael Sankoff – 34 Yrs.
Brian Leedy – 23 Yrs.
Russ Lester – 34 Yrs.
Joe Martin – 30 Yrs.
Charles Mosholder – 44 Yrs.
David Foster – 11 Yrs.
Austin Davis – 2 Yrs.
Scott Bolyard – 33 Yrs.
Anthony Friend – 27 Yrs.

SOILS/GEOTECHNICAL/ HYDROLOGICAL EVALUATIONS

Chris Grose, LRS* – 33 Yrs.
Dave Sharp, PE* – 29 Yrs.
Peter Potesta – 12 Yrs.

* Key Personnel

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



KEY PERSONNEL

Appendix A contains resumes and certifications of key personnel.

PRINCIPAL-IN-CHARGE



Dana L. Burns, PE, PS, Vice President

With over 45 years of experience, Mr. Burns has been involved in a diverse range of civil, geotechnical, and environmental projects. His expertise spans the development of site plans for commercial, residential, and industrial facilities, as well as the design of utility and transportation infrastructure and permitting processes. Beyond his technical skills, Mr. Burns brings substantial experience in dealing with various funding agencies. In his role, he oversees the day-to-day operations of the engineering division, managing staffing, coordination, training, business development, and overall supervision of technical and support staff.

PROJECT MANAGER



D. Mark Kiser, PE, LRS, Chief Engineer

With over 41 years of extensive experience in civil engineering, Mr. Kiser has a diverse background that includes site development, utility extensions, street and roadway construction, stormwater management, regulatory compliance, and environmental permitting. His work has taken him across various local jurisdictions in West Virginia, where he has adeptly navigated local ordinances and codes. Mr. Kiser also conducts constructability reviews on projects, both during and after the design phase. He has been the Project Manager for numerous residential and commercial development projects and WVDOH transportation projects.

DESIGN ENGINEERS



Mark A. Sankoff, PE, PS, Chief Engineer

Bringing in more than 41 years of experience, Mr. Sankoff specializes in water, wastewater, and stormwater engineering projects. As the former Director of Engineering at West Virginia American Water (WVAW), he possesses invaluable expertise in the design, operation, maintenance, and management of utility infrastructure systems. His extensive experience encompasses design, plans, specifications, and permitting, and construction management of water supply systems and wastewater collection and treatment for site development. Mr. Sankoff provides assessments of existing infrastructure to meet the demands of developments.

Mr. Sankoff is currently managing multiple Master Agreements with utility providers and municipalities for water and wastewater infrastructure projects across West Virginia.

STATEMENT OF QUALIFICATIONS

QUALIFICATIONS



KEY PERSONNEL

DESIGN ENGINEERS



Christopher A. Grose, LRS, Senior Engineering Associate

Mr. Grose has over 33 years of geotechnical experience with areas of expertise including geological/geotechnical explorations, surface/subsurface hydrology, hydrogeology, and landslide causation analysis/stability modeling/failed slope restoration. Mr. Grose's experience includes the design and evaluation of geotechnical explorations related to bridges, culverts, earth retention structures, slope stability and engineered fill construction, as well as foundation recommendations. His experience also includes geotechnical and foundation design for Karst void stabilization under proposed structures.



Terence C. Moran, PE, Senior Engineer

Mr. Moran has over 37 years of experience in civil engineering projects, with particular emphasis on water/wastewater projects. Mr. Moran has served as the project manager/project engineer for 100+ water/wastewater projects, including preliminary engineering, environmental assessments, funding applications, hydraulic analysis, booster and lift station design, storage tank design, line sizing, design of treatment systems, drawings, specifications, cost estimates, bid documents, "shop drawing" review, construction management and construction inspection.



David B. Sharp, PE, Senior Engineer, Branch Manager of Morgantown

With over 29 years of extensive involvement in civil engineering projects across the region, Mr. Sharp specializes in geotechnical engineering and construction observation and management endeavors. His portfolio encompasses a multitude of projects for municipalities and utility providers, covering roadway design, utility design, landslide investigation and repair, stormwater evaluation, site design, and permitting. He has overseen projects from initial planning and assessments to preliminary and final design stages, as well as the preparation of bidding and construction documents. Currently serving as the Branch Manager of POTESTA's Morgantown office, Mr. Sharp brings a wealth of experience and leadership to the team.

W. Kyle Stollings, PE, PS, Senior Engineer

Mr. Stollings is experienced in civil engineering, surveying, and Public Works construction and administration, including holding several WVDOH positions for 18 years and 9 years as City Engineer for the City of Charleston, West Virginia. His experience includes project development and construction for roads/streets/sidewalks, drainage/stormwater, landslides, bridges, parks, parking buildings, landfills, and other urban infrastructure projects and WVDOH compliance with the Clean Water Act, NEPA, Sections 404 and 401 permitting, and other environmental regulations.

SIMILAR EXPERIENCE



STATEMENT OF QUALIFICATIONS

CABELA'S RETAIL STORE

*Cabela's
Charleston, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by both the land developer and Cabela's to provide civil engineering design services for Cabela's retail store in Charleston, West Virginia. The store is situated on a 10-acre parcel and includes an 80,000 square foot building, over 400 parking spaces, 3 entrances from public and private roadways, a plaza area across the front of the store, RV park area with sewage dump station, dog kennel area, and landscaping.

Specific services provided by POTESTA included:

- ALTA survey used for the lease agreement and subsequent design work.
- Subsurface exploration including sample collection and testing, geotechnical evaluation, and foundation recommendations.
- Grading plan including balanced cut and fill for the building pad, parking fields, and access roads.
- Stormwater collection system design including curb inlets, catch basins, and culverts.
- Pavement design.
- Utility extension designs including sanitary sewer, potable water, fire service, natural gas, underground electric, underground telephone, and underground cable television.
- Permitting services including coverage of site development under the state's general construction stormwater permit.
- Support for local approvals including approval from Charleston Municipal Planning Commission as a Development of Significant Impact and building permit to allow construction to begin.
- MM-109 permit to allow for connection of the store's new roadway with the existing public roadway.



STATEMENT OF QUALIFICATIONS

PRESTON TRAILHEAD

*Friends of Cheat
Preston County, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by the Friends of Cheat (FOC) to provide engineering, architectural, and environmental consulting services for the development of the Preston Trailhead located outside of Kingwood in Preston County, West Virginia. The site is located on a 17.5-acre parcel of a former coal preparation plant which was partially reclaimed and undeveloped. This recreational facility includes the design/construction of an entrance road, parking lot, utilities, stormwater infrastructure, river access, landscaped green space, and other public-use amenities including lighting, picnic areas, signage, and waste receptacles. The project was funded by the West Virginia Department of Environmental Protection Office of Abandoned Mine Lands Pilot Grant Program.

In collaboration with Mills Group, LLC, an architectural firm, POTESTA provided the following services:

- Surveying/Mapping
- Master Planning and Conceptual/Final Site Design
- Preparation of Preliminary and Final Drawings – including Grading/Utility Plan, Erosion/Sediment Control Plan, Landscape/Planting Plan, Lighting Plan, Signage Plan
- Preliminary Opinion of Probable Construction Costs
- Human Health Risk Evaluation
- Stream and Wetland Delineation
- Permitting and Regulatory Compliance – including Stream Activity Permit, Clean Water Act Sections 404 and 401, Section 106, Section 107, NPDES Construction Stormwater Permit, WVDOH Encroachment Permit, and County Floodplain Permit
- Bidding and Construction Phase Support



STATEMENT OF QUALIFICATIONS

THE VILLAGE AT COOLFRONT PROJECT

*Carl M. Freeman Communities
Berkeley Springs, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by Carl M. Freeman Communities to provide environmental and engineering consulting services in conjunction with the redevelopment of the Coolfont Recreation property in Morgan County, West Virginia. Coolfont included a lodge, lake, spa, chalets, and other recreational facilities developed in the 1960s. Carl M. Freeman Associates acquired the Coolfont resort and other adjacent properties with the plan to create a second home community with high-end amenities.

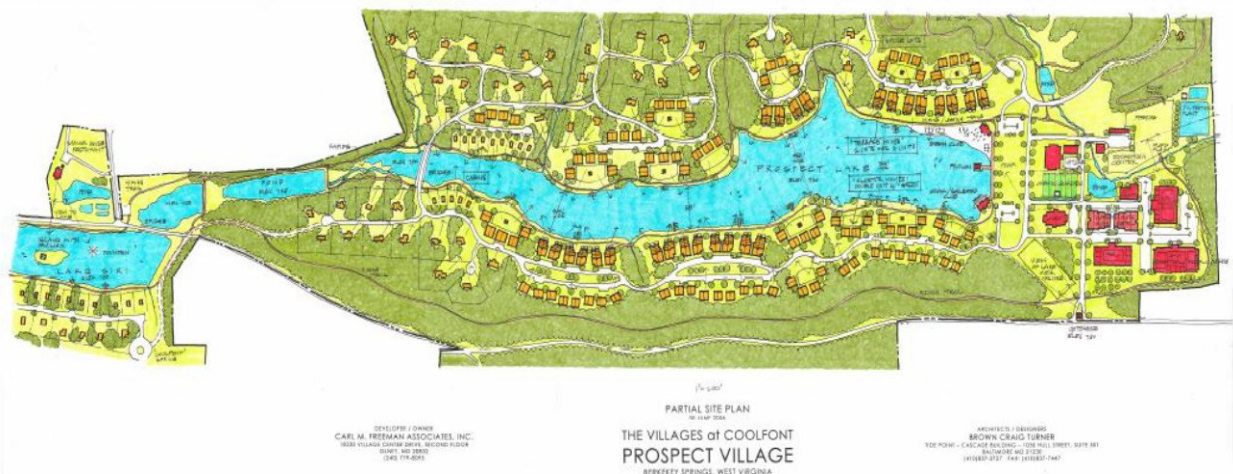
POTESTA completed the following scope of services:

PRE-ACQUISITION SERVICES

- Phase I Environmental Site Assessment
- ALTA boundary and property survey of 997 acres
- Assessment of the facility's sanitary sewer wastewater treatment plant to facilitate the acquisition of the property.

LAND USE PLAN

- Participated in a week-long planning charrette with Carl M. Freeman Associates, land planners, and other design consultants to assess the characteristics of the property, identify opportunities and constraints for development, obtain input from residents and businesses, and develop design guidelines for this project.
- Land use plan included 1,300 homes, a village center, spa, expansion of an existing lake, a proposed second lake, walking/hiking/biking trails, and the necessary infrastructure.



STATEMENT OF QUALIFICATIONS

DESIGN AND PERMITTING

- Selected source well locations, drilled potable water test wells, completed field testing, and permitting.
- 300 gallon per minute potable water treatment plant to serve the proposed development.
- distribution system consisting of 22,500 linear feet of 12 inch to 2-inch water mains and a 316,000-gallon storage tank were designed and permitted serving the first phase of the development.
- 440,000 gallon per day membrane bioreactor wastewater treatment plant to serve the ultimate development.
- Collection system consists of 18,300 linear feet of 15-inch to 8-inch sewer main, 2 pump stations, and 5,800 linear feet of 8-inch force main for the first phase of development.
- Permitting required for development of the new lake along with upgrades/expansion of the existing lake – Section 404 individual permit from the United States Army Corps of Engineers and a Section 404 water quality certification from the West Virginia Department of Environmental Protection
- Roadway and stormwater management plans for the first phase of development – typical pavement sections, road profiles, geometric layout plan, culvert and drop inlet sizing, drainage conveyance pipe and channel profiles, and miscellaneous stormwater management details.



STATEMENT OF QUALIFICATIONS

HAWKS NEST MUSEUM ADA ACCESS AND PARKING AREA IMPROVEMENTS

Mills Group, LLC

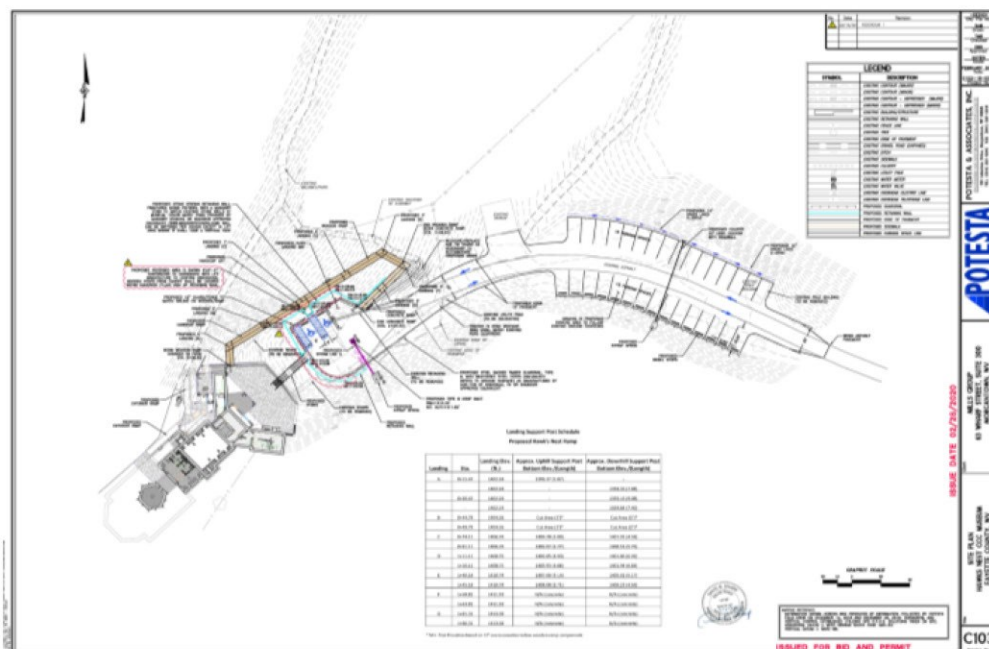
State Route 60 near Ansted, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Mills Group, LLC (Mills Group) for engineering consulting services for the proposed Hawks Nest Museum project located on State Route 60 near Ansted, West Virginia. Project tasks included topographic surveying and civil/site design for the two new proposed ADA access points on the northeast side of the building and upgrading the existing parking area.

The topographic survey included the generation of a topographic map with 1-foot contour intervals. POTEITA established horizontal and vertical control at the site and performed conventional surveying. POTEITA located visible existing utilities as they pertain to the property. POTEITA provided a hard copy of the topographic survey, as well as an electronic file in AutoCAD format.



POTESTA performed the civil/site design for the proposed two additional ADA access points. The topographic mapping and site survey were used to prepare construction-level design drawings associated with the additional ADA access.



STATEMENT OF QUALIFICATIONS

SITE DEVELOPMENT FOR PARK PLACE

*South Charleston Development Authority/City of South Charleston
South Charleston, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by South Charleston Development Authority/City of South Charleston as Engineer-of-Record for the development of Park Place, a 500,000-square-foot retail, entertainment, and food/beverage development on a 38-acre former fly ash disposal and former manufacturing plant in South Charleston, West Virginia. The condition and physical characteristics of the fly ash material contained in the disposal basin required geotechnical engineering ground improvements as the first phase to allow the property to be developed.

POTESTA completed the following scope of services:

- Topographic mapping including aerial photography to be utilized for subsequent civil engineering evaluation and design for the site.
- Geotechnical engineering for the characterization of the fly ash material and natural soils, and evaluate the consolidation aspects of the fly ash and recommendations for structural fill.
- Developed a plan to remove 900,000 cubic yards of soil and rock from a borrow site to use as fill for the development.
- Permitting including landfill/National Pollutant Discharge Elimination System permit, construction stormwater permits, and West Virginia Dam Safety permit.
- Design and construction of new emergency spillway, sanitary sewer, storm sewer, water, gas, communications, electric, and lighting.
- Roadway design included 4,400 LF of shopping center streets and 8,000 LF of sidewalks, curbs, and curb ramps.
- Construction phase services including assistance with contractor bidding of the project, evaluation of bids, and construction monitoring.



STATEMENT OF QUALIFICATIONS

DAVIS & ELKINS COLLEGE MYLES PLAZA

Mills Group, LLC
Elkins, Randolph County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Mills Group, LLC for engineering consulting services associated with the proposed Myles Plaza at Davis & Elkins College in Elkins, Randolph County, West Virginia. The project encompassed renovations of the vicinity surrounding Robbins Chapel, incorporating parking lots, new sidewalks, hardscapes, and green spaces. Additionally, it involved the creation of a prominent entrance to the Hermanson Campus Center, along with a roof extension connecting the Hermanson Campus Center, Harper-McNeeley Auditorium, and Myles Center for the Arts. The renovations included the demolition and removal of the existing concrete plaza and associated structures.

POTESTA's engineering and geotechnical services for this project included the following:

- Geotechnical recommendations regarding the suitability of the site for construction of the proposed plaza and roof structure.
- Coordinating private utility locating services using geophysical methods including electromagnetic scanning and ground penetrating radar.
- Utilization of topographic mapping and site surveys to generate construction-level design drawings including a site grading plan, demolition plan, erosion and sediment control plan, stormwater plan, and supplementary detail drawings.
- Sizing and locations of the stormwater collection system including drop inlets, buried pipes, and discharge protection.
- Preparation of detail drawings for drop inlets, pipe profiles, trench details, sidewalk details, pavement sections (with stone base and pavement thicknesses), curbs, and erosion and sediment control details.



NON-TRADITIONAL TRANSPORTATION CONTRACT – SIDEWALKS/BOARDWALKS

*West Virginia Division of Highways
Various Counties, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Division of Highways to provide engineering consulting services for non-traditional transportation projects including federal aid-funded projects for the Transportation Alternatives and Recreational Trails programs, as well as similar state-funded projects. Services included preliminary engineering design, environmental analysis and documentation, and final design engineering including the development of plans, specifications, and cost estimates for multiple projects:



- Rupert Sidewalk – Design and preparation of contract plans and related documents for the replacement and construction of approximately 600 linear feet of concrete sidewalk along County Route (CR) 1 (Anjean Road) beginning at Route 60 and proceeding north in the Town of Rupert.
- Cranberry Boardwalk – Design and preparation of contract plans and related documents for the replacement and construction of approximately 2,750 linear feet of 4-foot-wide boardwalk located in the Cranberry Glades Botanical Area in Pocahontas County. POTESTA designed a replacement of the boardwalk using helical piles to support the timber boardwalk over the peat bog. New bump-outs were provided to add to pedestrian movements and take advantage of the unique conditions in the glades.
- Bruceton Mills Sidewalk – Design and preparation of contract plans and related documents for the construction of approximately 750 linear feet of concrete sidewalk along the western side of CR 6 (Union Street) from CR 73/73 (Morgantown Street) running northerly to the Bruceton Mills town limits.
- Poca Laurel Avenue Sidewalk Extension – Design and preparation of contract plans and related documents for the construction of approximately 500 linear feet of concrete sidewalk along the southern side of Laurel Avenue from the intersection of WV 62 (Charleston Road) and Laurel Avenue running easterly to near the beginning of the guardrail at the causeway.

NON-TRADITIONAL TRANSPORTATION CONTRACT – TRAILS

*West Virginia Division of Highways
Various Counties, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Division of Highways (WVDOH) to provide engineering consulting services for non-traditional transportation projects including federal aid-funded projects for the Transportation Alternatives and Recreational Trails programs, as well as similar state-funded projects. Services include preliminary engineering design, relevant environmental documents and analyses, final design engineering, construction engineering and management, and/or inspection services for projects.



BLUESTONE WATER TRAIL

POTESTA was contracted to complete the design and preparation of contract plans and related documents for approximately 2 miles of trail rehabilitation on the Bluestone River Water Trail. The area of the existing trail begins near a small parking area and picnic shelter where County Route 3 crosses Brush Creek. The parking area, shelter, trailhead, and approximately 0.25 mile of trail leading to an overlook area at Brush Creek Falls are owned by the State of West Virginia. This portion of the trail is known as the Brush Creek Falls State Park and is managed by the West Virginia Division of Natural Resources.

HATFIELD MCCOY TRAIL SYSTEM

POTESTA was contracted to complete a Biological Assessment (BA) for routine trail maintenance to be completed by the Hatfield-McCoy Regional Recreation Authority (HMRRA). The activities proposed by HMRRA have the potential to affect the federally threatened *Cambarus callainus* (Big Sandy Crayfish), the federally endangered *Cambarus veteranus* (Guyandotte River Crayfish), and the designated critical habitat for the 117.0 miles of Hatfield-McCoy recreational trails found within the crayfish buffer zone in Logan, Mingo, McDowell, and Wyoming Counties.

POTESTA was selected to design a 2-mile section as a part of the Meadow River Rail Trail in Rainelle, West Virginia, however, it was withdrawn from the WVDOH program.

STATEMENT OF QUALIFICATIONS

BOY SCOUT CAMP WATER AND SEWER SYSTEMS AT DILLEY'S MILL

*Buckskin Council – Boy Scouts of America
Pocahontas County, West Virginia*

Potesta & Associates, Inc. (POTESTA) worked with the Buckskin Council of the Boy Scouts of America (BSA), the West Virginia Department of Environmental Protection (WVDEP) and the West Virginia Department of Health and Human Resources (WVDHHR) to correct problems with the existing drinking water and sanitary sewer systems at the Buckskin Reservation at Dilley's Mill, Pocahontas County, West Virginia.

After problems were discovered at the camp, the BSA asked POTESTA to review the sanitary sewer system and make recommendations regarding the upgrade and replacement of the existing lines. POTESTA was also asked to evaluate the existing sewage lagoon to determine if the facility was of adequate size. A site review of well locations, tank site, sewage treatment lagoon and alignment and location of both water and sewer lines was completed, and a report on problems identified and recommendations for correction was submitted to the BSA.

POTESTA provided administration and oversight of closure and abandonment of two of the camp's drinking water wells and the drilling of a replacement potable water well. Evaluation, recommendations and a master plan for replacement of the existing sanitary sewer system were provided by POTESTA engineers. The camp's sewage treatment lagoon was evaluated and recommendations were made for completely rehabilitating the lagoon to meet current regulatory standards.

POTESTA provided regulatory liaison and assistance with the forms required for well closure and abandonment, installation of a replacement well and replacement of the existing sewer system. Bid packages were developed for the required work and POTESTA worked closely with the BSA to issue and administer the contract with the successful bidder. After evaluation, the sewage lagoon was found to need replacement, and POTESTA worked with the BSA to provide design and construction of the replacement facility.



STATEMENT OF QUALIFICATIONS

REMEDIATION AND REDEVELOPMENT OF J.G. BRADLEY CAMPGROUND

*West Virginia Department of Environmental Protection
Dundon, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Environmental Protection (WVDEP), Office of Environmental Remediation to complete an environmental site assessment (ESA), risk assessment, remediation feasibility study, and to develop a remediation work plan by the Voluntary Remediation Program (VRP) guidelines. The J.G. Bradley Campground Project was an effort by the Central Appalachian Empowerment Zone (CAEZ) to improve a lowland portion of the property adjacent to Buffalo Creek near Dundon, West Virginia. The site was operated as a former rail facility from the early 1900s through the mid-1960s. The West Virginia Department of Transportation, Division of Highways (WVDOH) planned to use the site as a waste area for fill generated during the construction of the new Dundon Bridge. POTESTA incorporated the placement of the fill into the remedial design for the site.

The ESA consisted of advancing and sampling 26 soil borings, installing monitoring wells, performing groundwater monitoring, performing surface water and sediment sampling, and preparation of an ESA report. POTESTA then performed an Ecological and Human Health Risk Assessment to evaluate impacts to potential receptors. Based on the Risk Assessment and the contaminants of concern for this site, POTESTA developed a Remediation Feasibility Study and a Remediation Work Plan per VRP guidelines. POTESTA worked closely with WVDEP representatives and communicated with CAEZ to develop a remediation plan that could be implemented with minimal costs and would fit into the plans to develop the site as a campground.



STATEMENT OF QUALIFICATIONS

CIVIL/SITE DESIGN FOR APPALACHIAN ABATTOIR

*ZMM Architects and Engineers
Rand, West Virginia*

Potesta & Associates, Inc. (POTESTA) was retained by ZMM Architects and Engineers to provide professional engineering services for civil/site design for a new livestock slaughter and processing facility for Buzz Food Service (Buzz) located in Rand, West Virginia. The development is on a 0.858-acre parcel located along the east side of U.S. Route 60 and Frontage Road just north of Buzz's existing facility.



Buzz was awarded an Abandoned Mine Land Economic Revitalization (AMLER) grant to cover the costs of abandoned mine land (AML) reclamation and remediation costs, land acquisition and related costs, site development, facility construction, meat processing equipment, and operation costs.

POTESTA completed the following scope of services:

- Engineering design services for abatement of AML problems on and adjacent to the property.
- Surveying and topographic mapping for design and plan development.
- Subsurface geotechnical exploration with geotechnical recommendations for the facility.
- Site Grading Plan showing paved access roads/drives, parking areas, sidewalks, curbs, green space/landscaped areas, and surface drainage controls.
- Erosion and Sediment Control Plan.
- Utility Service Plan showing locations and details of utility service connections for potable water, sanitary sewer, telephone, electric, gas, and cable.
- Pavement details for roadways/drives and parking areas, sidewalk and curbing details, storm water management details, and details associated with utility service lines.
- Plans and preparation of forms for WVDOH MM-109 (highway right-of-way occupancy permit) for the ingress and egress of the facility.
- Construction phase services including shop drawing review/approval and responding to requests for information.

STATEMENT OF QUALIFICATIONS

YORKTOWNE SUBDIVISION

*Timberwolf Development Corporation
Charleston, West Virginia*

Timberwolfe Development Corporation, with the assistance of Potesta & Associates, Inc. (POTESTA), developed a new residential community on 30 acres within a half mile of the Southridge retail center off U.S. Route 119. The development of the 50 home sites for single-family residential use was part of an overall master plan for this land, a mixed use, retail, commercial office and residential development on the southwest side of Charleston.

POTESTA prepared designs for lot layout, streets, storm, sanitary and water utility extensions, and a sanitary sewer lift station. POTESTA provided survey platting of the subdivision; represented the developer before the Charleston Planning Commission, West Virginia Public Service Commission and the Charleston Sanitary Board; and obtained the necessary permits from the West Virginia Department of Health and Charleston Sanitary Board.

Construction monitoring of the utilities and road work was also provided.



STATEMENT OF QUALIFICATIONS

THE VILLAGES AT CHEAT LANDING

***Blue Ridge Development Group
Monongalia County, West Virginia***

Potesta & Associates, Inc. (POTESTA) was retained by the Blue Ridge Development Group for work relative to the Cole's Run Landing Development. In addition to six commercial parcels ranging in size from 1.07 to 3.88 acres, a 19-acre subdivision was also designed. The Villages at Cheat Landing contain 43 single family home sites and 32 town home sites. Specific services included:

- Design of over 3,000 feet of storm sewer ranging in size from 12-inch diameter to 24-inch diameter.
- Design of sediment and erosion control plans throughout the site to include sediment traps and diversion ditches.
- Design of two stream crossings utilizing prefabricated bridge sections, including HEC-RAS analysis of an unnamed tributary.
- Grading of roadways throughout the development.
- Analysis of Cole's Run using HEC-RAS stream modeling to site proposed nearby homes.
- Coordination with various public utility agencies to provide sanitary sewer, water, electric, gas, phone and cable to the development.
- Performed wetland and stream delineation and obtained permit from U. S. Army Corps of Engineers for proposed impacts.
- Obtained storm water construction permit from West Virginia Department of Environmental Protection to address erosion and sediment control.
- Completed traffic impact analysis and design of two turn lanes into the development. Also coordinated a State Division of Highways development agreement executed by three parties.
- Preparation of survey plats for both the Master Association and the residential subdivision and setting of the property corners for the lots within the subdivision.



PAST PERFORMANCE



REFERENCES

The following are references for projects completing similar services as required for the Little Beaver State Park and Twin Falls State Park Campground Improvements Project.



WEST VIRGINIA DIVISION OF HIGHWAYS

Joshua Vincent
1900 Kanawha Blvd., East, Building 5, Room 110
Charleston, West Virginia 25305
(304) 558-3505

→ **Non-Traditional Transportation Contract**

CITY OF SOUTH CHARLESTON

Rick Atkinson
PO Box 8597
South Charleston, West Virginia 25303
(304) 744-5300

→ **Park Place Development**

FRIENDS OF THE CHEAT

Owen Mulkeen
1343 North Preston Highway
Kingwood, West Virginia 26537
(304) 329-3621

→ **Preston County Trailhead and Cheat River Rail Trail**

CONTACT US

FOR MORE INFORMATION CONTACT:

Dana L. Burns, PE, PS, Vice President
(304) 342-1400

STATEMENT OF QUALIFICATIONS

PAST PERFORMANCE



PROJECT SUCCESS

From analysis to construction phase services, POTESta can make sure your project goes through the development process efficiently.

COMMUNICATION

POTESta believes effective communication is the key to a successful project:

- Communicate early and often.
- Mutual work scope development.
- Startup meeting including site visit.
- We work as extension of your staff—we work for you!
- Meet your objectives—how you want it!
- Weekly project updates.



CRITICAL FACTORS

POTESta follows critical success factors for each new project:

- Agree on the project goals with the client—specific, measurable goals will define the project scope.
- Develop a concise plan—deliverables and associated tasks are assigned with appropriate due dates.
- Mitigate or manage risks—identify and prioritize the risks early, assign the risk to a team member to oversee that threat or opportunity, and continually monitor risks.
- Manage the scope—be on alert for changes in scope and manage effectively.
- Communication—regular status updates on the progress of the project.

SCHEDULE

POTESta has a solid history of meeting aggressive milestone dates on schedule. POTESta's engineering and environmental consulting groups work on the preliminary engineering simultaneously, including surveying/mapping, environmental work, funding, and design.

Direct responsibility for schedule control lies with the Project Manager:

- Initially, the Project Manager reviews schedule requirements to see how they can be achieved given the anticipated scope of work.
- The Project Manager monitors the progress and compares it with the established schedule on a weekly basis, while keeping the Principal-in-Charge aware of the schedule's status.
- The Principal-in-Charge can make staff adjustments to allow the Project Manager to maintain the project schedule.
- If circumstances develop that make it impossible to maintain the project schedule, the Project Manager contacts the Client to develop a mutually acceptable adjustment to the schedule and/or work plan.

STATEMENT OF QUALIFICATIONS

PAST PERFORMANCE



COST CONTROL

RESPONSIBILITY OF BUDGET

POTESTA takes pride in our ability to provide our clients with innovative and concise engineering design packages that allow more of our the client's money spent on actual construction rather than engineering design fees. The Project Manager is responsible for monitoring the project budget and keeping the Principal-in-Charge informed of the status. The Project Manager develops a work plan based on hourly rates and tasks to complete the project.

CONCEPTUAL ESTIMATING

Each project is site-specific influenced by a variety of conditions; therefore each cost estimate is site specific.

- Compare actual bids for similar projects POTESTA has completed.
- Remain up-to-date on current material prices from suppliers/vendors.
- POTESTA remains flexible in the design and will examine alternatives to reduce the time and cost of construction.
- Cost estimates are based on actual bid unit costs.

QUALITY CONTROL/ASSURANCE

DELIVERABLES

The Project Manager will work with the Principal-in-Charge, as well as each team lead, to understand the level of detail and expectations for this project. POTESTA has a written quality assurance program encompassing drafting, engineer design, and written documents that utilizes standardized Quality Assurance/Quality Control (QA/QC) practices such as consistency checks, color coding of checked copies/calculations, and review of method of measurements versus quantity tallies to meet QA/QC expectations. Included are training for new staff members on company procedures, and color-coded checking systems for drafting and calculations, consistency checks (e.g. specifications versus drawings).

We utilize internal peer review of deliverable documents, secretarial review, constructability reviews of drawings, and review of method of measurements versus quantity tallies, all to make sure QA/QC expectations are met. As a standard quality assurance practice, the Project Manager and the Principal-in-Charge will review and comment on materials prior to submission to the client. Furthermore, POTESTA is a member of ASFE, an organization that emphasizes professional practices to reduce loss liability.

ADDITIONAL DOCUMENTS





MARK D. SCOTT
CABINET SECRETARY

STATE OF WEST VIRGINIA
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION

W. MICHAEL SHEETS
DIRECTOR

June 28, 2022

POTESTA & ASSOCIATES INC
7012 MACCORKLE AVE SE
CHARLESTON, WV 25304

DANA L. BURNS:

This is to notify you that your Small, Women-, and Minority-Owned Businesses (SWAM) Certification Application has been approved based on your representations that the vendor named above meets the definition of a Small, Women-, and Minority-Owned Businesses as set forth in the *West Virginia Code of State Rules* 148-22-1 et seq. This certification becomes effective:

06/28/2022

And shall automatically expire without notice two years after the effective date unless revoked by the Purchasing Director or upon expiration pursuant to the *West Virginia Code of State Rules* 148-22-8. The type(s) of Small, Women-, and Minority-Owned Businesses (SWAM) Certification approved for your entity:

Small Business

At the end of your two-year certification period, if you wish to reapply, please complete a WV-1 form or apply for re-certification through the Vendor Self-Service portal at wvOASIS.gov. Complete renewal instructions, application forms, and a list of all SWAM-Certified entities are available online at www.state.wv.us/admin/purchase/VendorReg.html.

If you have questions, please contact the West Virginia Purchasing Division at 304-558-2306.

Sincerely,

A handwritten signature in blue ink, reading "Terra Oliver", is positioned above the printed name and title.

Terra Oliver
Vendor Registration Coordinator



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/5/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102	CONTACT NAME:		
	PHONE (A/C, No, Ext): (703) 827-2277	FAX (A/C, No): (703) 827-2279	
	E-MAIL ADDRESS: admin@amesgough.com		
	INSURER(S) AFFORDING COVERAGE	NAIC #	
	INSURER A : Valley Forge Insurance Company A(XV)	20508	
INSURED Potesta & Associates, Inc. 7012 MacCorkle Avenue, SE Charleston, WV 25304	INSURER B : Continental Insurance Company A(XV)	35289	
	INSURER C : National Fire Insurance Company of Hartford A(XV)	20478	
	INSURER D : Lexington Insurance Company A, XV	19437	
	INSURER E :		
	INSURER F :		

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:			6057035330	3/7/2024	3/7/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			6057035327	3/7/2024	3/7/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			6057035358	3/7/2024	3/7/2025	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	6057035344	3/7/2024	3/7/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab.			015136031	3/7/2024	3/7/2025	Per Claim/Aggregate 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Pollution Liability is included in the Professional Liability policy and shares the limits per the policy terms and conditions.

CERTIFICATE HOLDER

CANCELLATION

EVIDENCE OF COVERAGE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

APPENDIX A

DANA L. BURNS, P.E., P.S.

Vice President



EDUCATION

M.S. Civil Engineering, 1979
West Virginia University

B.S. Civil Engineering, 1978
West Virginia University

EMPLOYMENT HISTORY

1997-Present	Potesta & Associates, Inc.
1994-1997	Terradon
1979-1994	GAI Consultants, Inc.
1978-1979	West Virginia University
1976-1977	West Virginia Department of Highways (summers)

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia, Illinois
- Professional Surveyor – West Virginia

PROFESSIONAL CERTIFICATIONS

40-Hour Health and Safety Training

SERVICE ON BOARDS AND COMMISSIONS

- Environmental/Technical Committee member – West Virginia Coal Association
- Environmental Committee member – Kentucky Coal Association

- Past Board of Directors member and current Waste Team Chairman on the Environmental Safety and Health Committee – West Virginia Manufacturers Association
- Environmental and Safety Committee member – Independent Oil and Gas Association of West Virginia
- Environmental Committee member – West Virginia Oil and Natural Gas Association
- Past President – West Virginia Society of Professional Engineers, Professional Engineers in Private Practice
- Past President and past Board of Directors member – American Council of Engineering Companies West Virginia Chapter
- Past Chairman of Transportation Committee – American Council of Engineering Companies West Virginia Chapter
- Past Board of Directors member – Society of American Military Engineers Huntington Post
- Member Committee D-18 on Soil and Rock – American Society for Testing and Materials (ASTM)

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- National Society of Professional Engineers
- WV Society of Professional Surveyors

AREAS OF SPECIALIZATION

Management of design and permitting of civil, environmental, geotechnical, and mining engineering projects. Siting, designing, and permitting industrial and municipal waste disposal sites; reclamation of abandoned mine lands; and development of stormwater management plans and groundwater sampling programs. Environmental/reclamation liability assessments. Development of site plans for commercial and industrial facilities including hydrologic and hydraulic analyses. Expert witness testimony. Directs engineering division, including day-to-day operation of headquarters and three branch offices concerning staffing, coordination, training, business development, and overall technical and support staff management.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Utility extension, site grading plans, stormwater management, roadway design, and permitting for site development for residential subdivisions and commercial developments.

University of Charleston – Principal-in-Charge for the following projects:

- Development of topographic mapping of campus
- Evaluation of storm sewer system
- Civil site services – UC Pharmacy School, New Hall, Middle Hall, and Brotherton Hall
- Design of new campus entrance roadway

Marshall University – Principal-in-Charge for the following projects:

- 400-bed housing project
- Biotechnology Center
- Fifth Avenue parking and 6th Avenue parking facility
- Jomie Jazz Center
- Childcare Center
- Mid-Ohio Valley Center
- Campus landscape master use plan
- Campus improvements project
- MU Graduate College South Charleston campus
- Student Center and Henderson Center
- Bookstore addition
- University Heights

Glenville State University – Principal-in-Charge for the following projects:

- Student Residence Hall
- Athletic Convocation Center and Forestry/Survey Class Center

West Virginia University – Principal-in-Charge for a sidewalk repair project located near Allen Hall on the Evansdale Campus in Morgantown, West Virginia.

The Villages at Coolfont – Principal-in-Charge to provide environmental and engineering consulting services for the redevelopment of the Coolfont Recreation property in Morgan County, West Virginia to create a second home community with high-end amenities:

- Phase I Environmental Site Assessment
- American Land Title Association (ALTA) boundary and property survey of 997 acres
- Completed an assessment of the facility's sanitary sewer wastewater treatment plant to facilitate the acquisition of the property.
- Participated in weeklong planning charrette with clients, land planners, and other design consultants to assess characteristics of the property, identify opportunities and constraints, obtain input from residents and businesses, and develop design guidelines.
- Land use plan including 1,300 homes, a village center, spa, expansion of an existing lake, a proposed second lake, walking/hiking/biking trails, and the necessary infrastructure.
- Civil engineering design for potable water and wastewater treatment facilities.
- Selected source well locations, drilled 3 source test wells, and completed field testing and permitting.
- Designed a 300-gallon per minute potable water treatment plant.
- Designed 2- 316,000-gallon water storage tanks and 75,000 LF of distribution system.
- Completed the design and permitting for a 448,000-gallon per day membrane bioreactor wastewater treatment plant, including the design of a 70,000 LF collection system.
- Assisted with permitting required for the development of the new lake and upgrades/expansion of the existing lake (included were Section 404 individual permit and Section 401 water quality certification).
- Prepared roadway and stormwater management plans, including typical pavement sections, road profiles, geometric layout plans, culvert and drop inlet sizing, drainage conveyance pipe and channel profiles, and miscellaneous stormwater management details.

City of Charleston – Inspection and preparation of rehabilitation design for Parking Garage No. 1.

Tucker County Industrial Park – Principal-in-Charge for the design which included water and sewer lines, stormwater management design, roadway design, pavement design, site grading plan, master plan, and geotechnical exploration/foundation recommendations.

Principal-in-Charge for site grading plans, stormwater management system, site surveying, roadway/parking lot

design, wetland delineation/mitigation, and construction monitoring for the 400,000-square foot Coldwater Creek distribution center in Parkersburg, West Virginia.

Principal-in-Charge for the civil/site design for the new Sissonville Middle School in Kanawha County, West Virginia. The project included a site grading plan with more than 230,000 cubic yards of earthwork to obtain 20 acres of level ground for a 74,000-square-foot school, football field, soccer field, baseball field, access roadways, and parking areas. The project included utility designs for water service and sanitary and sewer. Stormwater collection systems and erosion and sediment control plan/permit completed.

Principal-in-Charge for civil/site design for new Riverview High School and Bradshaw Elementary School in McDowell County, West Virginia. The project included 2,500 linear feet of relocated WV Route 80, relocation of 1,200 feet of Oozley Branch, and site work (grading, stormwater drainage, geotechnical recommendations, sanitary sewer, water, and electrical services) to serve the two schools. The project design included a site survey, geotechnical exploration, foundation recommendations, the design of excavation slopes, the layout of schools, parking areas, and athletic fields, utility design, roadway relocation plans, and stream relocation plans. Responsible for the design and preparation of contract bid documents (specifications and drawings) for civil/site work. POTESTA served as a sub-consultant to ZMM on this project.

Principal-in-Charge for civil/site design and permitting associated with constructing three synthetic fuel pellet plants in McDowell County, Nicholas County, and Kanawha County, West Virginia. The project included developing synthetic fuel manufacturing facilities on inactive surface mining sites. Services included subsurface exploration, foundation recommendations, grading plans, stormwater management plans, preparation of permit applications, and construction monitoring for site grading and foundation construction. The McDowell County site included a water source study to identify and select water sources for the manufacturing process. The three plants had a construction cost of \$25 million. The project was a design/build arrangement with POTESTA working directly for the owner.

Carmeuse Lime & Stone – Principal-in-Charge of engineering and environmental services for the expansion of current quarry operations at Winchester quarry in

Winchester, Virginia. The expansion includes the addition of two new vertical lime kilns and associated equipment, increasing their current aggregate crushing operation, and expanding their rail system to allow for increased shipping of products.

- Design included grading, stormwater management, and an access road crossing for a rail loop encircling the lime kilns and aggregate crushing areas with rail spurs for loading and unloading of product to connect to two mainline rail carriers.
- The total project track length consists of approximately 29,000 linear feet of rail.
- The design of the rail expansion includes trackside ditches, culverts, stormwater management systems, gas line relocations and crossings, rail crossings, and internal plant roadways, as well as grading for the expanded aggregate plant and lime kilns.
- Additional designs included civil/site services for a new office building and the design of the sanitary water treatment system for this building.
- Acquired the necessary approvals to construct this project, such as approvals from local planning and zoning, inspections, health departments, and state governments such as the Virginia Department of Transportation, Department of Environmental Quality (DEQ), and Department of Mining and Mineral Extraction (DMME).
- Conducted wetland delineations, developed reports, and completed applications to the Norfolk District (Northern Virginia field office) of the United States Army Corps of Engineers (USACE).

Development of specifications for a sand mound treatment system in the U.S. Air Training Center near Pittsburgh, Pennsylvania.

Water Lines, Water Storage Tanks, and Water Treatment Plants

New extensions and replacement of existing lines:

- Cassity Fork Water Supply Extension Project – Randolph County, WV (Project Manager)
- Godby Branch Water Supply Extension Project – Logan County, WV (Project Manager)
- Beaver Creek Water Supply Extension – Upshur County, WV (Project Manager)
- Buff Creek/Trace Fork – Putnam County, WV (Principal-in-Charge)

- Route 60 – Putnam County, WV (Principal-in-Charge)
- Boone County PSD numerous extensions – Boone County, WV (Principal-in-Charge)

West Virginia American Water Company – Principal-in-Charge for construction administration/monitoring for Poca River Water Line Extension Project, Cabell County Water Line Extension Project, Contract No. 7, Spite Road Water Line Extension Project, and Fisher Ridge Water Line Extension Project. Work included construction monitoring, preparation of weekly reports, review of contractor submittals, review of contractor invoices, and preparation of records drawings for 100,000+ linear feet of water line extensions.

City of Philippi – Principal-in-Charge for municipal water system upgrade project. Work included the design of two replacement booster stations, two new water storage tanks, new pumps for an existing booster station, a 1,500-foot water line extension, and telemetry systems. Drawings, specifications, and a cost estimate were prepared.

West Virginia American Water Company – Principal-in-Charge for Residuals Handling Facility project at the 32 MGD Kanawha Valley Water Treatment Plant, including coordination design consultant. The design included a sludge pumping station, 950,000-gallon reinforced concrete gravity thickener, two belt filter presses, chemical feed systems, plate settler, and associated control and piping. Work included preparing design concepts, surveying, subsurface exploration, preparation of drawings, specifications, cost estimates, and permit applications, conducting pre-bid public relations meetings, evaluation of bids, construction observation, review of contractor submittals, review of change order requests, and review of contractor invoices.

West Virginia American Water Company – Principal-in-Charge for evaluation of the Town of Pineville water treatment plant and water distribution system, including observation of system during site visit, records review, discussions with regulatory officials, and issuance of findings in a report.

Tucker County Development Authority – Principal-in-Charge for the design of approximately 10,000 feet of water line and sewer line to serve an industrial park, including a lift station. Drawings, specifications, and a cost estimate were prepared. Also performed construction administration services.

West Virginia Bureau for Public Health – Principal-in-Charge for services associated with Source Water Assessment Protection Plans (SWAPP) for 38 public water systems throughout West Virginia. Services provided included windshield surveys to identify and locate (via GPS) potential contaminant sources (PCSs), review of regulatory databases, entering data into the Access database, and preparation of summary reports.

City of Philippi – Principal-in-Charge for relocation of water lines due to proposed roadway. Relocation included approximately 4,000 feet of 1-inch to 12-inch diameter pipe, fire hydrants, meters, and valves. We prepared construction drawings, specifications, and quantities.

West Virginia American Water Company – Principal-in-Charge for hydraulic analysis for water supply extensions (total of 23 miles) in Cabell County, West Virginia, including line sizing and design of booster stations and PRVs.

Management of design, permitting, and construction monitoring of more than 40 miles of new waterline serving rural communities in southern West Virginia.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a six-mile water line extension including fire protection. The project included a 90,000-gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served the town of Cassity in Randolph County.

West Virginia Department of Abandoned Mine Lands – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a half-mile water line extension to serve Beaver Creek near Junior in Randolph County.

West Virginia Department of Abandoned Mine Lands– Management of four Phase II water studies and five Phase I water studies to determine if water supplies had been affected by coal mining. Work included resident interviews, mine map searches, area reconnaissance, obtaining water samples, reviewing water analysis data, preparing conceptual designs and associated costs, and preparing a summary report.

Sewer Lines and WWTPs

Washington County Industrial Development Agency – Design of a holding tank and ventilation system vault near Houston, Pennsylvania.

West Virginia American Water Company – Principal-in-Charge for evaluation of wastewater collection systems and treatment plants for two municipalities (Oak Hill and White Sulphur Springs) in West Virginia. Included were site visits to observe the system, discussions with system operators and regulatory officials, records review, compilation of DMR data, and issuance of findings in reports.

Roadway Design

Principal-in-Charge for the design of the new entrance roadway to the University of Charleston and the utility extension, surveying, and general civil engineering for a 440-bed dormitory. The project was a design/build.

West Virginia Divisions of Highways – Inspection of bridge and highway construction.

Managed numerous industrial access roads. Roadways were designed for the private sector. Design was coordinated with and approved by the West Virginia Division of Highways and roadways were accepted into the state transportation system.

- ZMM Architects – Relocation of State Route 80 for construction of new elementary and high schools at Bradshaw in McDowell County, WV
- Jackson County Development Authority and Double C Enterprises – Industrial Park access road and County Route upgrade in Kenna, WV
- Roane County Economic Development Authority – National Industrial Lumber access road in Amma, WV
- Tucker County Development Authority – Tucker County Industrial Park access road in Davis, WV
- Wood County Development Authority – Luigino's access road in Parkersburg, WV
- University of Charleston – Design of new entrance road to University of Charleston and redesign of MacCorkle Avenue (State Route 61) intersection/turn lanes in Charleston, WV
- N-Visions Architects – Entrance road, bus loop, and emergency exit roadway for new Sissonville Middle School in Sissonville, WV

- Entrance road and bus loop for Trap Hill Middle School in Raleigh County, WV

WV Division of Highways – Managed environmental permitting, surveying, and design of four-lane 1.25-mile North Bridgeport Connector Road from Interstate 79 Jerry Dove Interchange to Benedum Airport in Bridgeport, West Virginia.

WV Division of Highways under open-end agreements for:

- Landslides and slope stability projects
- Surveying
- Asbestos services

WV Division of Highways – Managed geotechnical, environmental, right-of-way, and survey work performed as a sub-consultant for various projects:

- King Coal Highway (section near Pineville, WV)
- Sharon Heights Connector
- Eldora and Enterprise Connector
- Dundon Bridge
- Martha Truss Bridge
- Martha Concrete Girder Bridge
- Upgrade of three bridges on Interstate 81
- Corridor H (section near Kerns, WV)
- Corridor D (section near Washington, WV)



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

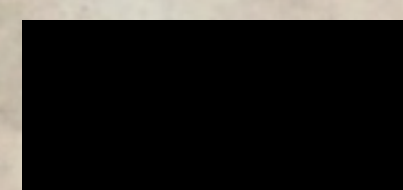
Dana L. Burns

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

by law, hereby certify that he, having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number



To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.



Given under the hand and the Seal of the Board at the Capitol in the City of Charleston, this 17th day of Sept. in the year of our Lord One Thousand Nine Hundred and Eighty-Five and of the State the One Hundred Twenty-Second

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Frank Gaddy

Secretary

By

Robert S. Scott President

Frank Gaddy

Wm. P. Fickens

Kenneth H. Means

D. MARK KISER, P.E., L.R.S.

Chief Engineer



EDUCATION

B.S. Civil Engineering, 1984
West Virginia University

EMPLOYMENT HISTORY

1997-Present	Potesta & Associates, Inc.
1995-1997	Terradon Corporation
1984-1995	GAI Consultants

PROFESSIONAL REGISTRATION

- Professional Engineer – West Virginia
- Licensed Remediation Specialist – West Virginia

PROFESSIONAL CERTIFICATION

- Hazardous Waste Site Operations and Superfund
- Worker Protection Training, 40-Hour Training
- Supervisory Training and Annual Refreshers
- Troxler Nuclear Densometer Certification

SERVICE ON BOARDS AND COMMISSIONS

Commissioner – Sissonville Public Service District

AREAS OF SPECIALIZATION

Environmental assessments, environmental sampling, and remedial programs, conceptual and final designs for chemical, utility, and municipal solid waste disposal sites, including liner systems, leachate management systems,

stormwater management systems, operational plans, capping/closure systems, abandoned mine land reclamation projects, sludge stabilization and basin/pond closure projects, environmental permitting, hydrologic and hydraulic analyses, and quality assurance/quality control monitoring.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Ridgeline, Inc./Cabela's – Retained by developer and Cabela's to provide civil engineering design services for a new Cabela's store in Charleston, West Virginia:

- ALTA survey
- Subsurface exploration
- Grading plan including balanced cut and fill for the building pad, parking fields, and access roads.
- Stormwater collection system design including curb inlets, catch basins, and culverts.
- Pavement design.
- Utility extension designs including sanitary sewer, potable water, fire service, natural gas, underground electric, underground telephone, and underground cable television.
- Permitting services
- Support for local approvals including approval from Charleston Municipal Planning Commission as a Development of Significant Impact and building permit to allow construction to begin.
- MM-109 permit to allow for connection of the store's new roadway with the existing public roadway.

Fieldcrest Subdivision – Project manager/engineer for the development of a nine-lot subdivision in Charleston, West Virginia. Design and permitting/regulatory approvals for infrastructure, including new street, sanitary sewer main, water main, stormwater, electric, telephone, cable, and natural gas. Preparation of drawings/specifications for necessary governmental agency approvals and for solicitation of bids. Inspection and certification of completed sanitary sewer system.

Connell Pointe Subdivision – Project manager/engineer for the development of an eleven-lot subdivision in Charleston, West Virginia. Design and permitting and regulatory approvals for infrastructure, including new

street, sanitary sewer main, water main, natural gas service, stormwater, electric, telephone, and cable. Preparation of drawings/specifications for governmental agency approvals and for solicitation of bids. Inspection and certification for completed sanitary sewer systems.

Conner Drive Townhouses – Project manager/engineer for the development of 13 townhouse lots just outside of Charleston, West Virginia. Planning, surveying, designing, and regulatory approvals for infrastructure, including new streets, stormwater management system, sanitary sewer main, water main, electric, natural gas, telephone, and cable.

Gettysburg Subdivision – Project manager/engineer for an 18-lot subdivision located in Kanawha County, West Virginia. Design, surveying, and regulatory approvals for infrastructure, including new street, sanitary sewer main, water main, stormwater management system, electric, natural gas, telephone, and cable. Preparation of drawings/specifications for solicitation of bids. Inspection and certification of the sanitary sewer collection system and pump station.

Yorktowne Subdivision – Project engineer for development and construction phase services for a 50-lot subdivision in Charleston, West Virginia. Design of streets, lots, stormwater management systems, sanitary sewer mains and pump stations, water mains, underground electric, natural gas, telephone, and cable.

City of Charleston – Feasibility study for the replacement of the CSX Ramp in Charleston, West Virginia.

Villages at Coolfont – Project manager for a project in Morgan County, West Virginia, which included planning, engineering, and permitting associated with developing a second home community on 1,000 acres near Berkeley Springs, West Virginia. Project included:

- Potable water supply source (wells), treatment plant, storage, and distribution system
- 0.44 MGD MBR wastewater treatment plant and sanitary sewer collection system
- Community roadways and storm sewer systems
- Detailed plans for the water and wastewater treatment plants and the distribution allocation system serving the first 124 homes
- Permits were obtained for the water and wastewater plants

Suncrest Subdivision – Project engineer for the development of subdivision in Charleston, West Virginia. The project included engineering and permitting for a new residential subdivision including roadway, underground electric, telephone, cable, water, sanitary sewer, and stormwater. The sanitary sewer system was designed, constructed, and monitored under the terms of an alternate mainline extension agreement with the Charleston Sanitary Board.

Business and Industrial Development Corporation – Preparation of Utility Extension and Roadway Paving Plans for Southridge Centre - Phase 2 area. The project included the preparation of bidding/construction drawings to provide natural gas, water, sanitary sewer, telephone, and cable television serving four commercial lots and a 50-lot proposed subdivision. All utilities were underground. The length of the project was approximately ½ mile. The project also included roadway paving and stormwater drainage.

Mixed-Use Industrial Park – Development of a conceptual development plan for a mixed-use industrial park. The evaluation included developing preliminary alignments for two access roadways including earthwork requirements, drainage, subbase, and paving with preliminary cost estimates. The total length of the road was over 5 miles. The evaluation also included a preliminary layout of water and sewer service for a proposed 400-acre development.

Plasma Processing Corporation – Preparation of permit to construct and site development plan for a secondary aluminum processing facility startup in Jackson County, West Virginia.

Utility Relocation Plans – Required for site development, waterline, and sewer construction projects. Projects included the determination of utility locations by records review, utility contacts, and surveying. Designs were prepared including locations, details, and pavement replacement. The design also included obtaining approvals from the West Virginia Division of Highways and the owners of the utilities.

Stormwater

Expert Witness – Retained for the plaintiff damaged as a result of flooding caused by lack of maintenance at a culvert system in Westmoreland, Wayne County, West Virginia.

Stormwater Drainage Plans – Site development projects including pre- and post-development discharges, design of sediment control devices, preparation of stormwater general permit application, and consulting for numerous construction projects in West Virginia.

Stormwater Evaluation – Evaluation of stormwater drainage system (culverts and channels) to alleviate flooding problems for a church in Kanawha County, West Virginia. The project included computer modeling to identify culvert capacities and to identify repair options.

Expert Witness – Retained to support a property owner damaged as a result of flooding caused by downstream obstructions. Reviewed regulatory agency files, conducted site inspections, evaluated possible remedial measures and provided support in anticipation of litigation.

Expert witness – Retained for plaintiff damaged as a result of flooding from upstream construction. Visited site to observe problem areas, reviewed construction practices/procedures, reviewed regulatory permits, and provided testimony as to the cause of flooding.

Developed stormwater management plans, including calculation of peak runoff rates, storm volumes, and design of stormwater management devices including culverts, ditches, sumps, ponds, principal pipe spillways, and emergency spillways for the following projects:

- Site development projects including commercial, retail, and industrial sites ranging from ¼ acre to more than 100 acres.
- Abandoned mine lands reclamation projects, including landslides, refuse piles, slurry ponds, and subsidence control projects.
- Commercial and industrial waste landfill projects.
- Roadway design projects.
- Other projects involving the disturbance of the ground surface.

Water Lines, Water Storage Tanks, and Water Treatment Plants

WVDEP-AML – Detailed design and preparation of construction drawings, specifications, contractor's bid sheet, and engineer's cost estimate for a six-mile water

line extension including fire protection. Included in the project were a 90,000-gallon water tank, booster station, and pressure relief valves. Extension tied into Norton Harding Jimtown PSD System and served the town of Cassity in Randolph County.

Design for waterline extension projects including preparation of construction drawings, specifications, and engineer's cost estimates for WVDEP- AML.

- Cassity Fork Waterline
- Beaver Creek Waterline Extension
- Godby Branch Waterline Extension

Design, preparation of construction drawings, preparation of permit applications, and other related activities for the construction of waterline projects. Line sizes ranged from 16 inches to 2 inches. Materials of construction included polyvinyl chloride and ductile iron pipe. Drawings included planimetric maps, topographic maps, and aerial photograph formats to depict the proposed construction. Permit applications included the Bureau of Public Health, Public Lands Corporation Stream Activity Permits, Division of Highways Occupancy Permits, and General Storm Water NPDES Construction.

- West Virginia American Water (WVAW) – Cabell County 2000 Project consisting of 23 miles of new waterline construction
- WVAW – Poca River Road Waterline Extension consisting of 13 miles of new waterline construction
- WVAW – Route 60 Contract 3 Waterline Extension consisting of 3 miles of new waterline construction
- WVAW – Buff Creek/Trace Fork Waterline Extension consisting of 6 miles of new waterline construction
- WVAW – Route 60 Contract 4 Waterline Extension, consisting of 2 miles of new waterline construction
- Yorktowne Subdivision – Waterline extension serving a 50-lot subdivision consisting of 3,000 linear feet

Sewer Lines and WWTPs

Fleming Landfill – Project manager/project engineer for the Fleming Landfill Sanitary Sewer Extension project in Kanawha County, West Virginia. The project included the design, permitting, construction monitoring, and certification of 9,900 linear feet of gravity and force main sanitary sewer, a new duplex pump station, and rehabilitation/upgrade of an existing pump station. The construction contract was over \$1

million. The completed sewer extension was turned over from the West Virginia Department of Environmental Protection to the Sissonville Public Service District for ownership and operations.

Timberwolf Development Corporation – Project engineer for sanitary sewer system including 8-inch gravity sewer, pump station, and force main sewer serving the Gettysburg Subdivision in Charleston, West Virginia. The project included an alternate mainline extension agreement with Charleston Sanitary Board, construction monitoring, surveying, road design, and subdivision plans.

Project manager/engineer for an industrial wastewater sewer extension. The project included design engineering, permitting, and construction monitoring associated with a 5-million-gallon, double-lined storage impoundment, duplex pump station with 70 horsepower pumps, and 5,200 linear feet of force main sewer in Monongalia County, West Virginia.

West Virginia Department of Environmental Protection – Design, permitting, and construction monitoring associated with a 138,000-gallon double containment storage tank, duplex pump station, and force main piping associated with the closure of the Jackson County Sanitary Landfill near Ripley, West Virginia.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

David M. Kiser

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

by law, hereby certify that he, having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.



Given under the hand and the Seal of the Board at the Capitol in the City of Charleston.

this 15th day of March in the year of our Lord One Thousand Nine Hundred and Ninety and of the State the One Hundred Twenty-sixth.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

[Signature]

Secretary

Kenneth H. Means

By

[Signature]

President

[Signature]

MARK A. SANKOFF, P.E., P.S.

Chief Engineer



EDUCATION

B.S. Civil Engineering, 1982
West Virginia University

EMPLOYMENT HISTORY

2011-Present Potesta & Associates, Inc.
1991-2011 West Virginia American Water
1988-1991 Dunn Engineers, Inc.
1982-1988 Kelley, Gidley, Blair & Wolfe, Inc.

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia
- Professional Surveyor – West Virginia

PROFESSIONAL AFFILIATIONS

- American Water Works Association
- National Society of Professional Engineers

AREAS OF SPECIALIZATION

Water supply including design of water mains, water storage tanks, booster stations, pressure reducing stations, advanced metering infrastructure – (AMI), and Automated Meter Reading – (AMR) systems. Extensive knowledge in water distribution systems operation and maintenance.

Experienced in funding, design, plans and specifications, permitting, bidding, and construction management of wastewater collection systems and treatment plants.

PROFESSIONAL EXPERIENCE

Water Lines, Water Storage Tanks, and Water Treatment Plants

Confidential Coal Company – Onsite water management, reuse, and disposal project; services included construction of 8,500 gallons per minute combination high-pressure pump/pressure reducing station, controlling a 14 mile 26” HDPE pipe, an 8,500 gallon per minute pressure sustaining valve station, energy dissipation structure, river outfall, and SCADA system.

Responsible for engineering at West Virginia American Water (WVAW):

- Supervising an engineering staff of eight, working in conjunction with other departments at WVAW.
- Developing and prioritizing multiple capital projects while developing and managing the multi-million capital budget for West Virginia. Budgeting includes developing and creating large investment projects, multiple public-private partnerships, and several acquisitions.
- Involved in multiple operational issues/projects including non-revenue water reduction, comprehensive planning studies including interconnection studies to combine operations to increase efficiencies.
- Worked on the automation of Bluestone Water plant which is intended to be the first one-shift automated and unattended surface water treatment plant in West Virginia.
- Design of multiple pressure-reducing stations and booster stations.
- Overseeing a \$1.5+ million per year tank painting program.
- Managed tank painting program, which included evaluating, prioritizing, draining, and refilling tanks, tank inspections, preparation of contract documents, bidding, bid evaluations, contract awards, scheduling, and taking tanks out of service while maintaining uninterrupted service to customers.
- Responsible for over 300 tanks in the largest water system in West Virginia.

Responsible for the Fayette AMI project, a \$4.3 million meter replacement/automation project to automate almost 12,000 water meters in Fayette County, West Virginia. This project was part of an EPA Green Project and the project was successfully publically bid using a

performance specification using stimulus money. Methods were developed to economically work through terrain issues as they related to radio signals to develop a successful project. The project successfully incorporated acoustic listening devices to monitor the distribution system at night to reduce non-revenue water in the Fayette water system.

City of Glenville – Project Manager for the study, design, bidding, and construction phase services for the project involving upgrades and construction monitoring to their existing potable treatment and water distribution system.

Town of Mills Creek – Project Manager for the design, permitting, and preparation of construction plans, specs, and bidding documents, and construction administration/observation services for the construction of two backwash ponds behind the existing water treatment plant.

Responsible for the project management to complete the WVAV building complex at 1600 Pennsylvania Avenue, Charleston, West Virginia. Provided oversight of the building complex for all operation and maintenance items, as well as liaison with the leasees.

Project Manager of the Kanawha Valley to Montgomery Interconnection Project design which included over 20 miles of 20-inch to 12-inch water mains, two relay booster stations, one storage tank, Kanawha River Crossing, railroad crossings, two pressure-reducing stations, and radio telemetry.

Project Manager for the EPA IDSE disinfection project to develop the computer water models for the Charleston and Huntington water systems which calibrated the two largest water distribution systems in West Virginia.

Project Manager for the Kanawha County IDB Water Project 2000 which served 33 areas and brought water to over 1,740 families. The total project cost of over \$22 million included over 100 miles of water mains, five boosters, and six water storage tanks of various sizes. Oversaw the design work of six consultants, including acquiring the rights-of-way, bidding on 12 water main contracts, and the construction of those contracts with five consultants handling five contractors, while managing the bidding and construction of the above boosters and water storage tanks.

Prepared specifications and plans for numerous water main extensions, water storage tanks, boosters, and hydro

pneumatic booster stations, and pressure regulating stations including site work, other utilities, and property acquisition, including bidding, project, and construction management.

Parcoal Project, Webster County, consisting of an 8-inch water main extension and a 160,000-gallon water storage tank using an ARC Grant.

Southridge Development Project consists of a 16-inch water main extension to serve the Southridge Development on Corridor G.

Responsible for the 55-person department that maintained the Kanawha Valley water distribution system, which repaired an average of 1,500 main breaks per year up to 30-inch PCCP:

- Responsible for providing new water services – the department made an average of 850 taps per year
- Oversaw the leak survey effort to reduce unaccounted-for water – developed a system to check night flow in systems using existing telemetry to determine leakage and direct efforts to maximize finding and fixing those leaks
- Coordinated the small diameter main replacement program which averaged over one million dollars per year
- Comprehensive supervisory experience between union and non-union personnel – responsible for five supervisors
- Assisted in union negotiations – developing a process to equalize overtime within the distribution department. Worked with the Manager to develop 24-hour coverage shifts to provide better customer service and reduce O&M costs, including a 12-hour shift schedule using four foremen to provide round-the-clock coverage
- Served as the liaison with Kanawha County Commission and KCRDA on new water projects to serve un-served areas

Oversaw the completion of the construction of the Consolidated Office Complex for WVAV's corporate headquarters in Charleston from 1997 to 1999.

Kanawha County Water Main Extension Project consists of waterlines, a booster, a 200,000-gallon water storage tank, and four pressure-regulating stations for the Campbells Creek area of Kanawha Valley.

Quarry Creek Subdivision consists of a vertical turbine booster station and a 330,000-gallon water storage tank, with an elevated storage tank bid option and water lines.

Kellys Creek Project consists of a 16-inch water main extension, booster station, and water storage tank along Route 60 using WVDEP, AML funding.

Little Sandy, Aarons Fork, and Edens Fork Projects. Construction of water mains, a booster station, and a 160,000-gallon storage tank utilizing two Small Cities Block Grants with KCDRA.

Summers-Mercer Water Project included the design of an 8-inch water main to Hinton and a 24-inch water main from the new Bluestone plant to Princeton, including the pressure-reducing stations along with the 300,000-gallon water storage tank near Pipestem.

Designed and constructed multiple small water main extensions, working with developers, customers, and small contractors to serve new subdivisions and unserved areas.

Sewer Lines and WWTPs

Huntington Sanitary Board – Project Manager for Master Agreement to provide engineering/environmental services related to the implementation of their Long-Term Control Plan, Wastewater Treatment Plant Modernization Plan, and Storm Water Management Utility Establishment/Operation.

Project Manager for the replacement of the Wastewater Treatment Plant at Point Pleasant, West Virginia. This included being responsible for design, plans, specifications, regulatory approval, bidding and bond sale, and construction management.

Inspection of wastewater collection systems, writing Operation and Maintenance Manuals, Facility Plans, and Grant Applications for various clients.

Project Manager for the Big Sandy Sewer Public Service District Vacuum System Project, which included the design and construction of three vacuum sewer stations, two sewage pump stations, a 9-mile force main, and the vacuum sewer collection system. Responsibilities of the above involved the preparations of engineering contracts, planning reports, plans and specifications, bid documents, operation and maintenance manuals, and change orders for state and federally-funded wastewater and water projects. The process involved cost-effective analysis, public relations, technical writing, and public speaking.

Project Engineer for the Logan Wastewater Interceptor Project, the Town of Barboursville Lagoon Improvements, and the Philippi Wastewater Project including a new Oxidation Ditch Plant, renovation of an existing pump station, sewer main replacement design, and construction. Experience included designing wastewater treatment plants, sludge handling facilities including belt filter presses, wastewater collectors and pumping systems, site developments, access roads, and combined sewer overflow (CSO) facilities.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting,

*Know Ye That The State Board of Registration for Professional Engineers,
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of*

Mark A. Sankoff

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT
*by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a*
REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

*(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.*



*Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston.*

*this 21st day of February in the
year of our Lord One Thousand
Nine Hundred and Eighty-Nine
and of the State the One Hundred
Twenty-Fifth.*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

By
Secretary *President*
Kenneth H. Means *Frank L. Gaddy*
Wm. B. Jickman *Robert B. Scott*

CHRISTOPHER A. GROSE, L.R.S.

Senior Engineering Associate



EDUCATION

- M.S. Geological Engineering, 1990
University of Missouri-Rolla
- B.S. Civil Engineering, 1988
West Virginia Institute of Technology

EMPLOYMENT HISTORY

- 1997-Present Potesta & Associates, Inc.
1994-1997 Terradon Corporation
1990-1994 GAI Consultants, Inc.
1989-1990 University of Missouri-Rolla
1989 Triad Engineering Consultants
(summer)
1988 West Virginia Institute of Technology
1983-1988 Clint Bryan & Associates Architects
(summers)

PROFESSIONAL REGISTRATIONS

Licensed Remediation Specialist – West Virginia

PROFESSIONAL CERTIFICATIONS

- Hazardous Waste Site Operations and Superfund Worker Protection Training
- American Red Cross Standard First Aid and CPR
- Troxler Moisture-Density Gauge

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Association of Engineering Geologists
- Society of America Military Engineers

AREAS OF SPECIALIZATION

Geological/Geotechnical engineering related to subsurface exploration studies, soil and rock slope design, landslide causation studies, foundation system design, surface/subsurface hydrogeology, ground subsidence, contaminant transport, and groundwater flow modeling. Planning, designing, and permitting natural gas production well pads and access roads. Geological study of hazardous waste remediation sites, CERCLA/SARA, RI, and FS report compilation, geological and geotechnical aspects of siting and design of municipal and industrial waste landfills.

PROFESSIONAL EXPERIENCE

Geotechnical

Responsible for the development of geotechnical and geological recommendations as well as the development of stabilization designs for many failed soil/rock slopes in West Virginia. This work included initial site reconnaissance visits, the development of a subsurface exploration study and materials testing program, evaluation of stabilization alternatives, and construction plan preparation.

Travelers Insurance/City of Charleston – The Project included a subsurface exploration study, engineering design, and global stability evaluation of a failed soil slope in a residential neighborhood on Bona Vista Drive for the City of Charleston, West Virginia. The slide was caused by a water main break along an existing residential neighborhood paved roadway. The recommended slope stabilization method was to install a soldier beam and lagging retaining wall along an existing paved roadway (supporting the buried utilities) with the remainder of the failed slope below being removed and replaced with compacted soil backfill.

City of Charleston – Geotechnical assessment and development of regrading construction plans for the repair of a failed soil slope below Grandview Drive for the City of Charleston, West Virginia. The slope failure occurred

between two adjacent residential structures and encompassed a sanitary sewer main as well as a storm drainage pipe receiving storm drainage from Grandview Drive. The stabilization plan involved the removal of the failed mass beginning at the toe of the slope and then working progressively upslope to result in a stabilized and regraded slope surface. The work required the removal of all failed material to the underlying rock surface and included the installation of a shot rock toe buttress which was installed along a natural topographic bench near the toe. Following completion of the work the affected utilities were installed either below the fill material or outside the regraded slide area.

Greer Industries Cheat River Quarry Haulroad – The project included the development of stabilization and repair recommendations for a failed soil slope which impacted a critical haul road utilized by the quarry operator to move raw shot rock material from the quarry to the crusher at the aggregate plant in Rowlesburg, West Virginia. The landslide occurred because of the failure of a cross-drainage culvert in the haul road. The failed soil mass was removed to the underlying bedrock and following the installation of a stone toe buttress and toe key, the material was blended with aggregate material from the plant and placed in compacted lifts. The underlying rock surface was excavated to result in a series of “bond benches” allowing for the installation of underdrains below the compacted fill to collect groundwater and seepage from the underlying rock. This prevented the saturation of the fill material.

Responsible for the design, management, and inspection of a geotechnical investigation of a proposed five-mile rail extension located in Nicholas County, West Virginia. The investigation included the study and design of planned rock cuts, and track foundation materials.

General Services Administration – Site evaluation, including continuous HNU scanning of collected soil samples and installation of piezometers for two proposed sites near Charleston, West Virginia.

West Virginia Department of Environmental Protection – Foundation design for a proposed 1,000,000-gallon potable water storage tank and valve pit near Cassidy, West Virginia.

Rhone Poulenc Ag Company – Subsurface sample collection, resistivity measurements, explosivity measurements, and decontamination procedures for an

organic contamination study at the Institute, West Virginia.

Preparation of foundation investigations for several large structures including a parking garage and student housing complex at Marshall University in Huntington, West Virginia. Tasks included the development of a subsurface exploration program, soil/rock sampling, testing program, and preparation of a final geotechnical report.

Expert Witness

Forensic study, expert testimony, and legal support related to the failure of numerous soil/rock slopes throughout West Virginia. This work included an extensive review of relevant project case documents, site reconnaissance visits, interviews with project personnel, and deposition testimony.

Lynn Elementary School – Technical insight and recommendations to attorneys representing an adjacent property owner related to the contributing factors related to the formation and continued failure of an excavated soil slope. The toe of the slope was excavated during the site development of the proposed elementary school site in Lynn, West Virginia.

Crichton & Crichton – Landslide formed along a wooded hillside below a residential driveway on Pleasant Lane in Wood County, West Virginia. The slope failure was noted during a substantial leak in an existing water main. The work included a review of case documents, interviews with various residents (plaintiffs in the case), and the development of supporting causation theory for the formation of the landslide. The work also includes the development of repair alternatives and associated construction estimates to be considered during the dispute hearing between the plaintiff and defendants.

Chesapeake Appalachia/Law Office of Jeffrey Mahal (R. Baker Natural Gas Production) – Provided technical study and file review of case documents related to the grading contractor’s construction work efforts to prepare a well pad for the installation of a series of horizontal gas production wells in Marshall County, West Virginia. The work included the removal of soil and rock from an existing hilltop. The resulting material was placed or wasted in a series of three side hill fills along the edges of the resulting well pad. All three of these fills experienced progressive and ongoing failures following the construction effort. We reviewed design documents, construction records, and details related to several repair

attempts to result in the development of a professional opinion related to the various factors contributing to the multiple slope failures.

Nationwide Trial Division/Khan & Wheeler (Ross v. WVAW Landslide Case) – Provided professional opinion related to the formation of a slope failure along the Elk River immediately behind several commercial and residential homes near the Town of Elkview, West Virginia. The initial landslide occurred immediately following a main waterline break along the front of the structures. The regressive and prolonged failure continued over several weeks and ultimately damaged a gravity sanitary line as well as several of the structures. Work included an extensive review of several years of case records provided for the case including a review of existing utility maintenance records, historic climatologic data, river stage information, and depositional testimony from many of the affected parties. A summary of a professional opinion report was prepared describing several factors including lack of maintenance storm culverts in the area as well as an increase of saturation along the slope from the failed water main as the cause of the slide. It was determined that several of the structures were supported on previously placed fill material which was placed along the river bank in the early 1900's in conjunction with the initial roadway construction. This coupled with the lack of maintenance and the presence of deteriorated drainage culverts likely contributed to the slope failure. The initial installation of this fill material was determined through an extensive study of the historic topographic mapping of the area.

Roadway Design

Hardy County Rural Development Authority – Engineering services for the study, design, and preparation of construction contract plans, related documents, and construction oversight services for an industrial access road for the Baker Business Park District.

West Virginia Division of Highways – Geotechnical engineer on geotechnical/landslide master services agreement.

Geotechnical engineer for various bridge and highway projects including:

- North Bridgeport Bypass
- McDowell County Schools
- Corridor H
- Dundon Bridge
- Sulphur Springs Bridge Replacement
- Smith Creek Bridge
- Martha Truss Bridge
- Martha Concrete Girder Bridge Replacement
- Dry Run Interchange
- I-81 Upgrade
- Platinum Drive
- Kenna Ridge Business Industrial Park/Access Road

Roane County Development Authority – Site development construction documents for National Industrial Wholesale Lumber located in Roane County's industrial park.

ZMM – Site design and engineering for a new elementary school and new high school in Bradshaw, West Virginia on the site of an existing elementary school.

West Virginia Department of Highways – Evaluation of subsurface conditions including both soil and rock to provide geotechnical recommendations related to potential bridge abutment foundation systems near Martinsburg, West Virginia. Alternatives included both shallow and deep foundations. Deep foundations were required at several abutments due to voids encountered in limestone bedrock.

TERENCE C. MORAN, P.E.

Senior Engineer



EDUCATION

- M.S. Civil Engineering, 1989
West Virginia University
- B.S. Civil Engineering, 1987
West Virginia University

EMPLOYMENT HISTORY

- 1999-Present Potesta & Associates, Inc.
1989-1999 GAI Consultants
1987-1989 West Virginia University
1985-1987 West Virginia Division of Highways
(summers)

PROFESSIONAL REGISTRATION

Professional Engineer – West Virginia, Virginia

PROFESSIONAL CERTIFICATION

- Troxler Moisture-Density Gauge
- American Red Cross Standard First Aid and CPR
- OSHA 40-Hour Hazardous Waste Worker Training

AREAS OF SPECIALIZATION

Water and wastewater engineering and permitting; preparation of studies, design calculations, drawings, technical specifications, and cost estimates; bidding phase services; and construction phase services, including construction administration.

PROFESSIONAL EXPERIENCE

Water Lines, Water Storage Tanks, and Water Treatment Plants

Project Manager/Project Engineer for more than 70 water supply projects involving the design and, permitting of water treatment facilities, water line extensions, water storage tanks, booster stations, chlorine boosters, pressure-reducing valve stations, service connections, and providing fire flow demands. Tasks include client/contract management; mapping development; hydraulic design; geotechnical investigations; preparation of drawings, specifications, and cost estimates; and preparation of Bureau of Public Health, Public Lands Corporation, United States Army Corps of Engineers, West Virginia Division of Highways, and NPDES permit applications. Projects funded by federal, state, and private funding.

West Virginia Bureau for Public Health (Region III and Region VI Planning and Redevelopment Councils) – Project Manager for 5 contracts for source water protection:

- Source water reports for 133 public water systems
- Preparation and presentation of state-wide source water awareness symposiums
- Source water assessment and protection plan reports for 68 public water systems
- Engineering study for contingency planning for public water systems

Town of Ceredo – Project Manager for 20,000 feet of water line replacement, water tanks, telemetry, and booster stations.

Boone County Public Service District – Project Manager for 15+ water supply extension projects in Boone County District from 2004 to present. Included were Preliminary Engineering Reports (PER), and design bidding and construction phase tasks.

Project Manager for Mill Creek Regional Water Supply Extension Project. The design included 34 miles of waterline, booster stations, tanks, and a water treatment plant. Included design of stormwater ditches and culverts, and crossings of a railroad. Approval was obtained from CSX Transportation, WVDOH, PLC, USCOE, and the

West Virginia Bureau for Public Health. Deliverables included drawings, specifications, and cost estimates.

West Virginia American Water – Project Manager for construction administration/monitoring for the Poca River Road Waterline Extension Project; Cabell County Waterline Extension Project, Contract No. 7; Spite Road Waterline Extension Project; and Fisher Ridge Waterline Extension Project. Work included construction monitoring, preparation of weekly reports, review of contractor submittals, review of contractor invoices, and preparation of record drawings for 100,000+ linear feet of waterline extensions.

City of Philippi – Project Manager for municipal water system upgrade project. Work included the design of two replacement booster stations, two new water storage tanks, new pumps for an existing booster station, a 1,500-foot waterline extension, and telemetry systems. Drawings, specifications, and a cost estimate were prepared.

West Virginia American Water – Design of mainline pressure-reducing valve and vault for the Glenwood Avenue Extension of the Cabell County Waterline Extension Project, Contract No. 6. Work included hydraulic sizing and preparation of drawing.

West Virginia American Water – Design, permitting, bidding and contract documents, and construction phase services for residuals handling facility at the largest water treatment plant in West Virginia, including 1,000,000-gallon gravity thickener, sludge pumping stations, two belt filter presses, and a plate settler.

West Virginia Department of Environmental Protection – Project Manager/Project Engineer for the design of multiple waterline extensions in West Virginia. Included was the design of six water storage tanks, five booster stations, pressure-reducing valves, master meters, and telemetry systems. Work included surveying, subsurface explorations, hydraulic design, preparation of drawings, specifications, cost estimates, permit applications, and assistance with bidding. Representative projects included:

- 10-Mile-South Putnam Water Supply Extension Project in Lincoln and Putnam Counties;
- 5-Mile-Cline Hollow, Younger Drive, Left-Hand Fork of Lens Creek, and Emmons-Grippe Water Supply Extension project in Kanawha County;

- 2.5-Mile Godby Branch Water Supply Extension Project in Logan County;
- 20-Mile Cow Creek-Sarah Ann Water Supply Extension project in Logan County;
- 8-Mile Cassity Fork Water Supply Extension project in Randolph County; and
- 10-Mile Olive/Marshville/Catfish Hollow Water Supply Extension project in Harrison County

Tucker County Development Authority – Project Engineer for the design of approximately 10,000 feet of water line and sewer line to serve an industrial park, including a lift station. Drawings, specifications, and a cost estimate were prepared. Also performed construction administration services.

West Virginia Division of Environmental Protection - Project Engineer for preparation of conceptual design and cost estimate for the Mill Creek – Isom Community (Logan County Public Service District) Water Supply Extension Project.

West Virginia American Water – Evaluation of the water treatment plant and water distribution system, including observation of the system during the site visit, records review, discussions with regulatory officials, and issuance of findings in a report for the Town of Pineville.

West Virginia Division of Environmental Protection – Project Manager for technical review of the Gauley River Area Waterline Extension proposed by the Gauley River Public Service District and the Heizer/Manilla Creek Waterline Extension proposed by West Virginia American Water. Included hydraulic analysis, evaluation of line size, review of drawings and specifications, and reporting on the evaluation in letter format.

City of Philippi – Relocation of waterlines due to proposed roadway. Relocation included approximately 4,000 feet of 1-inch to 12-inch diameter pipe, fire hydrants, meters, and valves. Prepared construction drawings, specifications, and quantities.

Short Line Public Service District/Harrison County Planning Commission – Project Manager for feasibility/rates analysis study for the proposed Reynoldsville, Wallace, and Clarksburg Water Supply Extension Project. Included evaluation of six options at multiple loan/grant funding scenarios.

West Virginia American Water – Hydraulic analysis for water supply extensions (total of 23 miles) in Cabell County, West Virginia, including line sizing and design of booster station and PRVs.

West Virginia Division of Environmental Protection – Project Manager/Project Engineer for numerous conceptual waterline designs for 20 unserved areas (between 1991 and 2007) in coal mining areas in West Virginia. Included hydraulic evaluation, booster station, water storage tanks sizing, waterline sizing, and estimation of construction cost. Work completed in Barbour, Boone, Brooke, Fayette, Harrison, Lincoln, Logan, McDowell, Putnam, and Randolph Counties.

West Virginia Division of Environmental Protection – Project Manager for the design of booster station upgrade for the Clinton Water Association's Ringgold pump station, including preparation of drawings, specifications, and cost estimate.

West Virginia Department of Energy – Groundwater contamination study for drinking water wells near Cassity, Randolph County, West Virginia, including water supply inventory of over 50 residents, collecting and analyzing well and surface water samples, and researching records to determine the percentage of homes whose water supply had been degraded by acid mine drainage.

Public Utility General – Project Manager for construction administration including preconstruction meetings, shop drawing review, coordination with construction technician team(s), contractor pay application review, public record drawings, and public interface for 15+ water and wastewater utility and/or infrastructure projects including utility line extension and upgrades, construction and modifications of treatment facilities. Clients include municipalities, public service districts, industry, county development authorities, and private utilities. Construction included water and sewer lines, booster stations, tanks, lift stations, vacuum sewer stations, treatment basins, dewatering equipment, clarifiers, chemical feed systems, buildings associated with treatment systems, outfall modifications, and diffusers.

Mingo Logan Coal Company – Project Manager for design, building, and permitting services for potable water systems at the new Mountain Laurel Mine in Logan County, West Virginia. The project includes a booster station, water storage tank, and 10,000 feet of HDPE pipe.

Sewer Lines and WWTPs

Project Manager for more than 30 wastewater projects, including municipal sanitary sewer treatment systems, industrial pretreatment systems, modification of sewer treatment plants, outfall modifications including diffuser installation, and upgrades to municipal collection systems. Also included were completions of studies mandated by the West Virginia Public Service Commission.

- Projects funded by the State Revolving Fund (SRF), West Virginia Infrastructure and Jobs Development Council, United States Economic Development Agency, and Private Funding sources.

Boone County Public Service District – Preliminary engineering, funding application, and final design for WWTP upgrade. Funding is proposed through the Clean Water State Revolving Fund (SRF).

- Mechanical bar screen replacement
- Grit removal system replacement
- Mechanical aerator replacement
- Addition of a third clarifier
- RAS pump addition
- UV unit replacement
- Belt filter press replacement
- Wash water system upgrade
- Other upgrades

Town of Ceredo – Perform design, bidding, and construction phase services for the upgrade of the existing sanitary sewer collection system, including upgrades to gravity and force main lines, and a lift station. Funding was through the Clean Water State Revolving Fund (SRF).

Town of Ceredo – Evaluation of the remaining capacity of the grinder pump system.

Salt Rock Sewer Public Service District Master Service Agreement:

- Specification for WWTP wash line
- Preparation of NPDES modification for sludge disposal from a publicly owned treatment works
- Preparation of odor control study mandated by the West Virginia Public Service Commission (WVPSC)
- Preparation of cost estimates for requests for service
- Evaluation of lift station overflows

Town of Moorefield – Study on costs of \$30,000,000 sanitary sewer system (plant and collection system).

South Putnam Public Service District – Project Engineer for review of sewage disposal options for large county-wide sanitary sewer provider. Work included interviews with various publicly-owned treatment works (POTWs), interviews with regulatory agencies, review of regulatory agency files, development of costs, and preparation of a report summarizing findings, including recommendations for future treatment of sewage in West Virginia.

West Virginia American Water – Assessment of the City of Oak Hill and City of White Sulphur Springs publicly owned treatment works (POTW) to recommend improvements in operation and maintenance.

Town of Bradshaw – Design of collection system for two new schools, and design, permitting, bidding, and certain construction phase services for equalization basin/lift station, and upgrades to vacuum station and buffer tanks.

Tucker County Development Authority – Design, permitting, bidding, and construction phase services for the gravity collection system, force main, and lift station for an industrial park.

Boone County Public Service District – Preliminary engineering report for collection system and sequencing bench reactor (SBR) wastewater treatment plant for the Town of Nellus.

MDG Homes – Preparation of hydraulic calculations and record drawings for variable grade effluent sewer system at a large development in the eastern panhandle.

Client Confidential – Coordination of treatability study for the industrial treatment plant.

Design of numerous sanitary sewer extensions associated with private developers, including the design of gravity and force main lines and lift stations, including approvals by local public utilities such as Jefferson Utilities, and approvals by the West Virginia Department of Environmental Protection.

Pocahontas County Public Service District/Wastewater Management – Study on replacement of Hawthorn Loop Sanitary Sewer System.

Steptoe & Johnson/York Bronze Company – Design of batch chemical pretreatment system for bronze facility in northern West Virginia. Included were the sizing of units and building to house treatment system, and the preparation of drawings, specifications, and cost estimates.

Columbia Gas Transmission Corporation:

- Design of sump/pump and storage tank to allow treatment and storing of wastewater; and negotiation with the hauler and POTW to allow the disposal of wastewater at Files Creek Compressor Station.
- Design of an oil/water separator, sump/pump, and storage tank to allow treatment and storing of wastewater; and negotiation with the hauler and POTW to allow the disposal of wastewater at Cleveland Compressor Station.
- Design of a wastewater treatment plant for compliance with a compressor station's NPDES permit. Included were the preparation of facilities' preliminary and final engineering plans, selection of treatment (chemical precipitation, activated carbon, and filtration), and detailed drawings and specifications.
- Evaluation of the effectiveness of the existing ozonator/activated carbon wastewater treatment system at a natural gas compressor station. The evaluation included a 30-day composite sampling plan of wastewater, compilation of results, comparison with treatment system capacity, and issuance of findings in a report. Also included was the issuance of a report summarizing technical feasibility and costs for alternate treatment options.
- Project Manager for conceptual design of oil/water separator at the Crawford Compressor Station in Ohio.

Tetra Technology – Preparation of operation and maintenance manual for a wastewater treatment plant at the Yak Tunnel Superfund site in Leadville, Colorado. Project Engineer for design and permitting of sanitary wastewater treatment system for coal mines in Logan and Raleigh Counties, West Virginia. Included was the preparation of drawings and specifications.

- Eastern Associated Coal Corp.
- Rum Creek Coal Sales

West Virginia Department of Environmental Protection, LCAP – Design of 1.2 miles of pressure and gravity

sewer line at the Jackson County Landfill to convey landfill leachate to an existing sanitary collection system. Included were provisions for servicing residences along the pathway, hydraulic sizing, and preparation of drawings, specifications, and a cost estimate.

West Virginia University – Research assistant for developing an interactive optimal sewer design program SODES.

Evaluation of options for future treatment of wastewater at a chemical industrial facility along the Ohio River in West Virginia. Included were evaluation of options, estimation of capital and O&M costs, and preparation of a report to a law firm in West Virginia.

Roadway Design

WVDEP and Logan County Public Service District – Project Manager for the design and layout of the relocated West Virginia County Route 12 (including approval from WVDOH) as part of the water treatment plant site of the Mill Creek Regional Water Supply Extension in Logan County, West Virginia. The design included roadway alignment (including vertical and horizontal curvature, right-of-way, and horizontal clearance concerning structures), surface and subsurface drainage (including hydraulic calculations and channel and culvert sizing), fill embankment design, cut slope layout, and specifications for pavement, gravel, guardrail, drop inlets, and drainage structures. In addition, the project included compiling technical specifications including WVDOH standard specifications.

Martinka Coal Company – Project Manager for the design of an access road associated with a new 3,700,000-gallon pond at a deep mine in northern West Virginia. The project included subsurface investigation, hydrology calculations, channel and culvert design, cut/fill balance, low water crossing design, embankment design, and selection of road surfacing material. Deliverables included specifications, including references to WVDOH specifications. USCOE and Public Lands Corporation permits were obtained.

S&S Grading, Inc. – Project Manager for the design of an access road associated with a closure cap on an old landfill in Harrison County, West Virginia. The project included site grading, hydrology calculations, channel and culvert design, design of subsurface drains under the road, cut/fill balance, embankment design, and selection of road surfacing material. Deliverables included drawings and technical specifications, including references to WVDOH specifications. Roadway quantities were estimated.

Ranger Fuel Corporation – Design of an access road for a new deep mine portal at the Clinton No. 4 Mine in Boone County, West Virginia. The project included site grading, hydrology calculations, channel and culvert design, cut/fill balance, and selection of road surfacing material. Deliverables included drawings and specifications. Regulatory approval was obtained.

West Virginia Division of Environmental Protection – Project Manager for the design of site drainage along WV Route 16/2 (including channels and culverts), reclamation of two landslide areas along WV Route 16/2, and a soldier (pile and lagging) wall to support a slip in WV Route 16/2. In addition, responsibilities included compiling technical specifications, including WVDOH standard specifications, and communications with WVDOH for design approval.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting

*Know Ye That The State Board of Registration for Professional Engineers,
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity, and Discretion of*

Terence C. Moran

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

*by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a*

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

*To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.*

*Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston,
this 19th day of Feb. in the
year of our Lord One Thousand
Nine Hundred and Ninety-Six
and of the State the One Hundred
Thirty-Second*



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

W. Ben Faulkner
Secretary

Patrick R. Equid
President

Kenneth H. Means Robert B. Scott Frank D. Gaddy

DAVID B. SHARP, P.E.

Branch Manager/Senior Engineer



and right-of-way plans; and municipal water and wastewater projects.

PROFESSIONAL EXPERIENCE

Geotechnical

Engineer responsible for performing subsurface investigations, preparation of geotechnical reports, coordinating laboratory analysis programs, providing recommendations for lateral earth pressures, bearing capacities, modulus of subgrade reactions, settlements, and construction specifications for multi-story structures. Foundations considered have included steel H-piles, auger-cast piles, drilled piers, spread footings, and mat foundations:

- Snowshoe Resort Activity Center – Snowshoe, WV
- Stockert Youth Center – Buckhannon, WV
- D&E College Dormitory – Elkins, WV
- Suncrest UMC Parsonage – Morgantown, WV
- Elkins-Randolph Public Library – Elkins, WV
- Historic Tygart Hotel Elevator – Elkins, WV
- Mon County BOE Tech Center Feasibility – Morgantown, WV
- MedExpress Admin Office – Morgantown, WV
- Firefly Commons Housing Dev – Elkins, WV
- Solvay Expansion – Marietta, OH
- Superior Fibers Add. – Reedsville, WV
- Citizens Bank Add. – Buckhannon, WV
- Chemours Fire Station – Washington, WV
- Camp Dawson 2 New Buildings – Kingwood, WV
- Dental Spa – Morgantown, WV
- Marshall Baseball Stadium – Huntington, WV
- Citizen's Bank – Buckhannon, WV
- Miners & Merchants Bank – Davis, WV
- D&E College Myles Center Add. – Elkins, WV
- Buzz Foods Add. – Charleston, WV
- Solvay WWTP Clarifier – Marietta, OH
- Black Oak Office Building – Morgantown, WV
- D&E College Harper McNeeley Waterproofing – Elkins, WV
- Family Dollar Store – Berkeley Springs, WV
- Rubbermaid Distribution Ctr Add. – Winchester, VA
- WVU Transportation Ctr/ Garage – Morgantown, WV
- 4 West WTP – Greene County, PA
- CA Ventures Student Housing – Morgantown, WV
- Copper Beech Student Housing – Morgantown, WV
- Sunnyside Commons Student Housing – Morgantown, WV

EDUCATION

M.S. Civil Engineering, 1995
West Virginia University

B.S. Civil Engineering, 1993
West Virginia University

EMPLOYMENT HISTORY

2003-Present	Potesta & Associates, Inc.
2000-2003	CTL Engineering, Inc.
1997-2000	Potesta & Associates, Inc.
1994-1997	Terradon Corporation

PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia, Pennsylvania, Maryland, Ohio, and Kentucky

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

AREAS OF SPECIALIZATION

Involved with many aspects of civil engineering with a special interest in the geotechnical/environmental aspects. Responsibilities have included projects involving Civil/Site Design; Geotechnical Design, Solid Waste Management Facility Design, including geosynthetic applications; hydrologic and hydraulic design; transportation/highway projects, including geotechnical

- WVU Eng. Building East Add. – Morgantown, WV
- PSC Admissions Bldg. Add. – Mineral County, WV
- GSC Health & Sciences Bldg. – Gilmer County, WV
- GSC Residence Hall – Gilmer County, WV
- Christy Street Office Building – Morgantown, WV
- Harry Green Nissan Dealership Building Add. – Harrison County, WV
- Elkins Dodge Dealership – Randolph County, WV
- Sam's Club Fueling Station – Clarksburg, WV
- Wal-Mart Fueling Station – Connellsville, PA
- Cheat Lake Elementary School Bldg. Add. – Monongalia County, WV
- Churchill Village Housing Project – Monongalia County, WV
- R.E. Michel HVAC Commercial Bldg. – Monongalia County, WV
- ICM Islamic Center – Morgantown, WV
- Catlettsburg Refining Company Alkylation and Wastewater Control Room – Catlettsburg, KY
- WVARNG Camp Dawson Fueling System – Kingwood, WV
- MEPCO Dock Expansion Project – Morgantown, WV
- West Run Student Housing – Morgantown, WV
- Fairmont Federal Credit Union – Bridgeport, WV
- Morgantown Waterfront Marina – Morgantown, WV
- Residence Inn – Morgantown, WV
- Suncrest Executive Office Plaza and Parking Garage – Morgantown, WV
- WVU Research Park – Morgantown, WV
- View at the Park Apt Complex – Morgantown, WV
- Marriott Hotel – Morgantown, WV
- Bucks Tavern – Morgantown, WV
- Stouts Run United Methodist Church Add. – Parkersburg, WV
- Fairfield Inn Hotel – Fairmont, WV
- Wendy's Restaurant – Morgantown, WV
- Sunoco Service Station – Robinson Township, PA
- St. Stephen Baptist Church – Morgantown, WV
- Islamic Center – South Charleston, WV
- Oak Hill Public Library – Oak Hill, OH
- Westside High School – Oceana, WV
- WVARNG Readiness Center – Summersville, WV
- Marshall Student Housing Facility – Huntington, WV
- Marshall Parking Garage – Huntington, WV
- Marshall Library – Huntington, WV
- Marshall Student Center Add. – Huntington, WV
- Marshall Jomie Jazz Center – Huntington, WV
- Marshall Child Care Center – Huntington, WV
- U.S. Equipment Distributors – Huntington, WV
- Pace Carbon Fuels WV #2 and #3 – Summersville and Eckman, WV
- WVU Luxury Box – Morgantown, WV
- Marshall Mid-Ohio Valley Ctr – Point Pleasant, WV
- Arbor Terrace Assisted Living – Charleston, WV
- Arbor Terrace Assisted Living – Huntington, WV
- Pocahontas County PSD WTP – Snowshoe, WV
- Pt. Marion Water Tank Replacement – Pt. Marion, PA
- Mon Gen Hospital/Access Road – Morgantown, WV
- Kasson Elem/Middle School Repair – Kasson, WV
- North Marion Vocational/Technical Center School Repair – Marion County, WV
- Mon County Public Office Bldg. – Morgantown, WV
- Cell Phone Towers in WV, PA, and MD
- EQT – Natural gas compressor stations pads and additions in Wetzel and Marion Counties, WV, and Monroe County, OH
 - EQT – Logansport Compressor Station Add.
 - EQT – Plasma Compressor Station Pad
 - EQT – Corona Compressor Station Pad
 - EQT – Gemini Compressor Station – Geotechnical Feasibility
 - EQT – Gemini Interconnect Pad
- Basic Systems, Inc. – Natural gas compressor stations pads and additions in Greene, Franklin, and Adams Counties, PA and Wetzel and Randolph Counties, WV
 - Basic Systems, Inc. – Waynesburg Compressor Station Add.
 - Basic Systems, Inc. – Gettysburg Compressor Station Add.
 - Basic Systems, Inc. – Greencastle Compressor Station Add.
 - Basic Systems, Inc. – Files Creek Compressor Station Add.
 - Basic Systems, Inc. – Smithfield Compressor Station Add.
- Dominion Transmission – Crayne Compressor Station Add. in Greene County, PA
- Stone Energy – Marcellus Well Pad Sites in Wetzel County, WV:
 - Stone Energy – Mills Wetzel #3 Well Pad – Wetzel County, WV
 - Stone Energy – Conley Well Pad – Wetzel County, WV
 - Stone Energy – Langmyer Pad – Wetzel County, WV
- Mountaineer Keystone – Mackey-Wolfe Well Pad in Barbour County, WV
- Chesapeake Energy – Rayle Coal Co. Well Pad in Ohio County, WV
- Residential geotechnical projects in Charleston and Morgantown, WV
- EQT Midstream – Geotechnical recommendations for natural gas transmission lines including horizontal directional drilling projects:
 - H-310 Coal Refuse Area – Monroe County, OH
 - Harrison County HDD – Harrison County, WV

- Ohio River HDD – Wetzel County, WV and Monroe County, OH

Responsible for the coordination of subsurface investigation, laboratory testing program, slope stability analysis, and preparation design documents associated with the repair of landslide at various site throughout West Virginia. Representative designs have included soldier beam and lagging retaining walls, gabion basket retaining walls, segmental block retaining walls, rock toe keys and buttresses, and drainage improvements. The following provides a list of representative projects:

- Polan Properties Landslide Repair – Huntington, WV
- WVDEP AML Sardis Landslide Repair – Harrison County, WV
- Upper Grave Creek Dam – Cameron, WV
- WVU University Ave Rockfall – Morgantown, WV
- Kinetic Park Landslide Repair – Huntington, WV
- Morgantown Parking Authority Armory Lot Retaining Wall – Morgantown, WV
- Town of Granville Bowser Street Landslide Repair – Monongalia County, WV
- Marshall Portal Access Road Landslide Repair – Greene County, PA
- Weekley Well Pad Landslide Repair – Wetzel County, WV
- Shupbach Ridge Road Landslide Repair – Wetzel County, WV
- Mills Wetzel #2 Well Pad Landslide Repair – Wetzel County, WV
- Mills Wetzel #2 Road Landslide Repair – Wetzel County, WV
- Potts Well Pad Landslide Repair (2 separate landslides) – Wetzel County, WV
- Haynes Branch Gas Line Landslide Repair – Wetzel County, WV
- Decker's Creek Mine Stockpile Area Landslide Repair – Preston County, WV
- Wentz Freshwater Impoundment Embankment Stability Repair – Barbour County, WV
- Columbia Gas Transmission Well #7331 Slide Repair – Elkview, WV
- Cline Tower Landslide – Winfield, WV
- Wellford Tower Landslide – Clendenin, WV
- Massie Ridge Tower Landslide – Camp Creek, WV
- Fisher Landslide – Elkview, WV
- Kennawa Landslide – Charleston, WV
- Burlew Landslide – Charleston, WV
- Lee Landslide – South Charleston, WV
- Fairmont North Tower Landslide – Fairmont, WV
- 6th Street Tower Landslide – Huntington, WV

- Joyce Landslide – Chesapeake, OH
- WVAML Emergency Landslide – Tupper Creek, WV
- Schmidt Landslide – Gallipolis, OH
- Disposal Service, Inc. Landslide – Hurricane, WV
- Wellston HS Landslide Repair – Wellston, OH
- Pribble Tank Landslide Repair – New Martinsville, WV
- Potokczny Well Pad Landslide Repair – Marion County, WV
- Ridgepoint Landslide Repair – Morgantown, WV

Involved with the layout of the boring plan, staking borings in the field, preparation of the boring contract documents, soliciting bids, awarding drilling contracts, monitoring of drilling operations, coordination of laboratory testing programs, preparation of boring diagrams, and preparation of subsurface exploration report foundation recommendations and slope reviews for various West Virginia Department of Transportation Projects:

- Platinum Drive Urban Connector – Bridgeport, WV
- Segment of WV State Route 2 – Moundsville, WV
- Segment of National Road – Wheeling, WV
- Segment of North Bridgeport Bypass – Bridgeport, WV
- Corridor H, Section IV – Davis, WV
- Sulphur Springs Bridge – Hundred, WV
- Dry Run Interchange – Martinsburg, WV
- Interstate 81 Hainsville, Bessemer and Tuscorora Creek Bridges – Martinsburg, WV
- CR 24 Bridge Replacement – Jackson County, WV
- CR 3 Temporary Bridge – Jackson County, WV
- CR 56 Temporary Bridge – Wetzel County, WV
- CR 28 Bridge Replacement – Ritchie County, WV
- CR 3 Temporary Bridge – Roane County, WV

Expert Witness

Served as Expert Witness in cases involving geotechnical, earthwork construction, and/or drainage issues. Many of these cases involved a review of available information, development of professional opinions, issuance of an expert report, depositions, and expert testimony.

- West Virginia Division of Highways v. GoMart, Inc. et al. – Jackson Kelly – Circuit Court, Wood County, Civil Action No. 17-C-205 – Civil Site Design/Traffic Turning Movements (Defense)
- First Baptist Church of Burnsville v. Hall Dozer Company, Inc. – Jenkins Fenstermaker, PLLC –

- Circuit Court, Braxton County, Civil Action No. 20-C-46 – Construction/Geotechnical (Defense)
- LMR Property, LLC v. City of Bridgeport – Pullin, Fowler, Flanagan, Brown & Poe, PLLC – Circuit Court, Harrison County, Civil Action 21-C-262-2 – Geotechnical/Utility (Defense)
- Corotoman v. Yeager Airport – Milberg Coleman Bryson Phillips Grossman – Geotechnical (Plaintiff)
- Critchfield v. State Farm et. al. – Bowles Rice – Circuit Court Taylor County – Civil Action 19-C-48 – Vehicular Damage resulting in Building Damage (Defense)
- Caloccia v. Enervest – Jackson Kelly & Smith Law – Harrison County – Civil Action 20-C-9 Geotechnical (Defense)
- First Baptist Church of Burnsville v. Hall Dozer – Braxton County – Civil Action 20-C-46 – Geotechnical (Defense)
- Solem v. Highlands of the Potomac, LLC – Shuman McCuskey Slice, PLLC – Circuit Court Berkley Co. – Civil Action 18-C-408 – Flooding (Defense)
- Liston v. Frontier West Virginia, Inc. – Bowles Rice – Circuit Court Monongalia Co. – Civil Action 16-C-279 – Flooding (Defense)
- Pauley v. Schumacher Homes of WV, Inc. – Bowles Rice – AAA – Case 01-18-0000-0240 – Foundation Construction (Defense)
- Logan County Board of Education – Bowles Rice – Circuit Court Logan County – Civil Action 17-C-11-B – Geotechnical (Plaintiff)
- JKLM Energy, LLC et. al. vs. Big Level Wind, LLC, John Hancock Life Insurance et. al. Court of Common Places of Potter County, Pennsylvania No. 86 CD 2017 – Construction, geotechnical and civil/site design associated with gas well pads (Defense)
- Wilkins, Scott v. R&R Holdings – Civil Action 15-c-295 – Flooding and drainage (Defense)
- Larry Rine, et. al. vs. Chesapeake Appalachia, LLC. Robinson & McElwee – Civil Action No. 5:11-CV-4 – Landslide on Natural Gas Well Pad (Defense)
- Bisacca v. Pennsylvania Department of Transportation, Thomas J. Dempsey, Attorney at Law – Earthwork Construction Practices (Plaintiff)
- Sven Verlinden and Lisa Verlinden v. Morgantown Utility Board, et. al. Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-573 – Combined Sewer Flooding (Defense)
- Russell D. Kitchen and Suzanne G. Kitchen v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-745 – Combined Sewer Flooding (Defense)
- Darin O. Arnold and Sarif J. Arnold v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-749 – Combined Sewer Flooding (Defense)
- Rider v. Fairmont Homes, LLC. – Flaherty, Sensabaugh & Bonasso, PLLC – Claim No. 1012802 – Landslide and Residential Construction Issues (Defense)
- Thomas A. Logston and Joanne C. Logston v. Charles E. Kolb d/b/a Kolb Excavating – A.D. Baker Homes, Inc. and Alan D. Baker, Bowles, Rice, McDavid, Graff & Love – Civil Action No. 10-C-116 – Landslide Resulting in Property Damage (Plaintiff)
- LJH, Inc. v. Quadruple S. Farms, LLC and Four-S-Development, Bowles Rice LLP – Civil Action No. 09-C-438 – Rockfall and Commercial Construction Practices (Plaintiff)
- Mingo County Airport Authority Claim Against Appalachian Paving & Aggregate, Inc. – Robinson & McElwee, PLLC – Earthwork and Construction Related Issues (Defense)
- Children’s Home of Wheeling v. Cast & Baker, et. al. Civil Action No. 06-CV-374W – Geotechnical (Plaintiff)
- Colaianni Construction, Inc. Claim for Cost Recovery Against Koker Drilling at Wetzel County Hospital, Wellness Center Add. – Spilman, Thomas & Battle – Retaining Wall Failure Resulting in Building Damage
- Hilling Enterprises, LLC et. al. v. Midtown Motors, Inc. et. al. – Civil Action No. 13-C-308 – Landslide Causing Property Damage (Defense)
- Stan-Corp v. Scott Properties, LLC. et. al – Bowles Rice LLC – Landslide Impacting Roadway and Property (Defense)
- Stephen C. Fish et. al. v. McCloy Construction et. al. – Bowles Rice, LLP – Civil Action 03-C-3050 – Structure Foundation Settlement (Plaintiff)
- Industrial Machine v. American Geotech – Bowles Rice, LLP – Civil Case 02-C-115 – Subsurface Exploration and Geotechnical Design (Defense)
- Pell, Robert K., et. al. v. SAMOA, LLC, et. al. – Claim No. 010510386236 – Drainage Related Claim (Defense)
- Timothy J. and Victoria Calissie v. AB Resources, LLC, et al. – Steptoe & Johnson, PLLC – Civil Action No: 13-C-43K – Circuit Court of Marshall County, WV
- Counts v. City of Charleston, et al. – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 15-C-2169

- Huggins v. AAA Mobile Homes of New Martinsville et. al. – Pullin, Fowler, Flanagan, Brown & Poe, PLLC – Civil Action No. 14-C-60 – New Martinsville, Wetzel County, West Virginia
- The Board of Education of the County of Logan, West Virginia a/k/a Logan County Board of Education v. Triad Engineering, Inc. – Bowles Rice McDavid Graff & Love – Civil Action No. 17-C-11

Civil/Site Design

Project Manager/Engineer on projects involving most aspects of site development. Involvement has included civil/site design, geotechnical aspects, hydrology/hydraulics, permitting, erosion/sediment control/permitting, etc.:

- D&E College Student Dormitory – Elkins, WV
- Stockert Youth Center – Buckhannon, WV
- Appalachian Hotel – Kingwood, WV
- D&E College Myles Plaza Improvement – Elkins, WV
- Citizen's Bank – Buckhannon, WV
- Citizen's Bank – Elkins, WV
- Miners & Merchants Bank – Davis, WV
- Dental Spa – Morgantown, WV
- University Place Parking Garage – Morgantown, WV
- Sunnyside Commons Student Housing – Morgantown, WV
- Coombs Farm Residential Development – Morgantown, WV
- Morgan Point Residential Subdivision – Morgantown, WV
- Town of Granville Boat Ramp – Granville, WV
- West Run Student Housing – Morgantown, WV
- Copper Beech Student Housing – Morgantown, WV
- Summit at Cheat Lake Residential Development – Morgantown, WV
- Summit at Greystone Residential Development – Morgantown, WV
- Sleepy Hollow Residential Development – Morgantown, WV
- Shiloh Residential Development – Morgantown, WV
- Summerfield Residential Development – Morgantown, WV
- Mayfield Estates Residential Development – Morgantown, WV
- Cheat Landing Residential Development – Morgantown, WV
- Churchill Village Complex – Morgantown, WV
- Trinity Christian School Football Field – Morgantown, WV

- Morgantown Technical Services Industrial Expansion – Mt. Morris, PA
- WVU Beechhurst Parking Lot – Morgantown, WV
- Marcellus Well Pad Sites for Various Clients – Northern WV

Construction Monitoring

Project Manager/Engineer involved with and/or responsible for construction observation/testing on construction projects. These projects routinely involved earthwork testing utilizing a nuclear density gauge and other test methods during earthwork placement and compaction. Many projects also included concrete testing including slump, comprehensive strength, air entrainment and/or floor flatness testing. The following is a summary of projects involving construction observation and testing:

- Sunnyside Commons Student Housing – Morgantown, WV
- Family Dollar Store – Smithfield, PA
- University Place Parking Garage – Morgantown, WV
- Church Hill Village Housing – Morgantown, WV
- Mills Wetzel #3 Well Pad – Wetzel County, WV
- Shupbach Ridge Road Landslide Repair – Wetzel County, WV
- Potts Landslide Repairs – Wetzel County, WV
- Pribble Tank Landslide Repair – Wetzel County, WV
- Potokczny Landslide Repair – Marion County, WV
- Tucker County Industrial Park – Tucker County, WV
- Pocahontas County Landfill Cell 3 Expansion – Pocahontas County, WV
- Disposal Services Landfill Expansion Area – Hurricane, WV
- Platinum Drive Urban Connector Landslide Repair – Bridgeport, WV
- Trinity Christian School Football Field – Morgantown, WV
- Kasson Elem/Middle School Pyrite Remediation – Barbour County, WV
- City of Philippi Water Improvement – Barbour County, WV
- Mackey Wolfe Well Pad – Barbour County, WV
- Morgantown Technical Services Expansion – Mt. Morris, WV
- Lakin Correctional Center – Wood County, WV
- Western Regional Jail – Cabell County, WV
- Merrick Creek Farm Commercial Development – Cabell County, WV

Served as the Manager responsible for equipping and staffing a fully operational soils and concrete material testing laboratory used in support of construction observation projects. The laboratory became validated by the U.S. Army Corps of Engineers to perform approximately 45 ASTM test methods will under Mr. Sharp's direct supervision. Representative test methods included standard and modified proctors, Atterburg limits, grain size determination, aggregate sieve analysis, specific gravity, organic matter, lightweight particles, soil classification, compressive strength, and moisture content determinations. Establishment of the laboratory also included the preparation of a site-specific quality systems manual in accordance with ASTM guidelines.

Water Lines, Water Storage Tanks, and Water Treatment Plants

Morgantown Utility Board – Provide expert witness services on a routine basis.

Project Manager/Engineer on public utility projects involving potable water supply. In most of the projects, it not only included the technical design, but also included assistance with funding applications, preparation of technical specifications and construction documents, assistance with bidding documents, and construction observation/administration.

- City of Wellsburg Water Improvement (plant upgrade and line extension) – Wellsburg, WV
- City of Glenville Water Improvement – Glenville, WV
- Preston County PSD #2 Howesville Water Improvement – Preston County, WV
- City of Philippi Water Improvement – Philippi, WV
- City of Philippi Water Tank Upgrade – Philippi, WV
- Town of Mill Creek Water Improvement – Mill Creek, WV
- Town of Marlinton Water Plant Assessment – Marlinton, WV
- Town of Huttonsville Water System Assessment – Huttonsville, WV
- Preston County PSD #2 Water Improvement – Preston County, WV

Sewer Lines and WWTPs

Project Manager/Engineer on public utility projects, such as sanitary sewer collection/treatment, as well as combined sewer/storm water improvements:

- Town of Marlinton CSO Project
- City of Buckhannon Sanitary Sewer Extension
- City of Glenville Infiltration/Inflow Study for the Sanitary Sewer
- Pocahontas County PSD Geotechnical and Environmental Permitting Services for Wastewater Improvement



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting,

*Know Ye That The State Board of Registration for Professional Engineers,
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of*

David B. Sharp

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT

*by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a*

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

*To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.*



*Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston
this 28th day of July in the
year of our Lord One Thousand
Nine Hundred and Ninety-nine
and of the State the One Hundred
Thirty-sixth.*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Ed. Reckless

Frank Raddy

Leafe L. Fleming

Wm. Faulkner

W. KYLE STOLLINGS, P.E., P.S.

Senior Engineer

EDUCATION

AASHTO National Transportation Leadership
Institute, 2010
Indiana University

B.S. Civil Engineering, 1989
West Virginia Institute of Technology

B.S. Engineering of Mines, 1980
West Virginia University

EMPLOYMENT HISTORY

2018-Present	Potesta & Associates, Inc.
2018	TRC Companies, Incorporated
1999-2017	West Virginia Department of Transportation, Division of Highways
1998-1999	Engineering Design Group
1989-1998	City of Charleston, West Virginia
1987-1989	Self-Employed – Mining and Construction
1986-1987	Peabody Coal Company
1983-1986	Self-Employed – Mining Consultant
1980-1983	ARMCO, Inc.

PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia
- Professional Surveyor – West Virginia

AREAS OF SPECIALIZATION

Mining and civil engineering, surveying and Public Works construction and administration. Experience in underground coal mining, broad spectrum urban engineering/construction/administration, highways project engineering/construction, disaster recovery, public and media relations, and interaction with state and federal agencies, legislators, and Congressional Representatives.

PROFESSIONAL EXPERIENCE

Roadway Design

West Virginia Department of Transportation, Division of Highways – Division Director for the oversight of policy and procedures and the Maintenance Management System for DOH Operations and Maintenance. Management of

several administrative sections and associated programs with approximately 50 staff:

- Bridge Evaluation Section - Primary work is administering the National Bridge Inspection Standards (NBIS) Program including oversight of the District Bridge Departments' compliance. Implemented an inspection QA/QC program that FHWA recommends to other DOT Bridge Programs. Implemented InspectTech database software for inspection reporting. Implemented Element Level inspection and reporting. Oversize Hauling Permit Unit for heavy trucks.
- Asset Management Section
- WVDOH Pavement Management System
- Transportation Asset Management Plan – Assisted with scoping through consultant selection, scope includes development of a Bridge Asset Management System.
- Resource Management Section - Procurement contracts, Encroachment Permits and Bonds administration and database.
- Operations Section: Buildings and Grounds Program, Core Maintenance Program, Disaster Recovery Coordination (FEMA and FHWA-ER), Oil and Gas Policy and Bond Agreements working two engineers and two clerical staff to monitor well drilling and pipeline activities.
- WVDOH Oil and Gas Policy – assisted the State Highway Engineer in writing and interpreting policy and rules for managing oil and gas industry activities on the state highway system.
- WVDOH Voting Member of the AASHTO Subcommittee on Maintenance, 2013-2017
- WVDOH representative on the Clear Roads Winter Maintenance Research Group 2011-2015
- WVDOH representative on AASHTO Snow and Ice Cooperative Program (SICOP) 2016-2017

West Virginia Department of Transportation, Division of Highways, Engineering Division – Regional Project Manager working with DOH Districts 1, 2, and 3 monitored design project scope, schedules, and budgets. Reviewed plans for construction means and methods before PS&E.

West Virginia Department of Transportation, Division of Highways, Engineering Division, Technical Section, Hydraulics and Section 404 Permit Unit – Unit Leader to supervise the creation and staffing of this new unit to

upgrade DOH compliance with the Clean Water Act, NEPA, Sections 404 and 401 Permitting and other environmental regulations while providing technical resources for hydraulic evaluations and design of stream and wetland mitigation projects. Scoped and supervised the first stage of a complete update of the DOH Hydraulics and Drainage Manual.

West Virginia Department of Transportation, Division of Highways, Engineering Division, Technical Section – Construction Troubleshooter working with the DOH Contract Administration Division on construction and fabrication problems with latitude to expedite solutions. As Hydraulics Engineer, justified the creation of a Hydraulics and Permit Unit within the Technical Section.

As City Engineer for the City of Charleston:

- Managed office of 5 - 8 staff with 2 engineers and \$4 to \$17 Million annually in project development and construction: landslides, drainage, city landfill, roads and streets, bridges, parks, parking buildings and other urban infrastructure.
- Conceived the design that allowed the City to build and keep a solid waste landfill that is still operating. At construction in 1993, this was the largest public works project in City history at an initial construction cost of approximately 17 million dollars.

Coordinated daily assignments and inspection services of 12-14 inspectors in the construction of four bridges and approximately 14.5 miles of Limited Access Highway for US 35 Design-Build Upgrades Projects in Putnam and Mason Counties, West Virginia.

- Reviewed and approved Inspector's Daily Reports
- Regular field review of work in progress
- Frequently provided interpretation of WVDOH Standard Specifications and Project Plans for the inspectors and contractors
- Made recommendations for plan changes and improvements.

Mining

Mine surveying, mine construction, boundary surveying, and residential construction.

Peabody Coal Company – Section foreman on Robinhood No. 9 Mine in Twilight, West Virginia. Supervised coal production crews and underground construction and general labor crews.

Mine surveying, mapping, and permitting for small mining operations across four counties in West Virginia.

ARMCO, Inc.:

- Section Foreman – Sundial No. 10A and Hardwood Mine
- Industrial Engineer – Sundial Subdivision (500 employees producing 1,000,000 plus clean tons per year)
- Supervised coal production crews and underground construction and general labor crews.
- Longwall, continuous miner sections, mainline track haulage, conveyor haulage, and battery haulage



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

Willie R. Stollings

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT
by law, hereby certify that he, having submitted satisfactory evidence of his ability and experience, is a
REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

To Hold and use such title in the practice of his profession, subject to the conditions prescribed by law.



Given under the hand and the Seal of the Board at the Capitol in the City of Charleston, this 26th day of July in the year of our Lord One Thousand Nine Hundred and Ninety and of the State the One Hundred Twenty-seventh

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

[Signature]

Secretary

Kenneth H. Means

By

[Signature]

President

[Signature]