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WOASIS	Jump to PRCUID 🚖 😡 🧬 Home 🔑 Personalize 🔬 Accessibility 🛜 App Help 🍸 About 😈
Velcome, Christopher W Seckman	Procurement Budgeting Accounts Receivable Accounts Payable
Solicitation Response(SR) Dept: 0310 ID: ESR05202500000007172 Ver.: 1 Function: New Phase: Final Modified by batch . 05/20/2025	
Header ill 1	
General Information Contact Default Values Discount Document Information Clarification Request	
Procurement Folder: 1603639	SO Doc Code: CEOI
Procurement Type: Central Purchase Order	SO Dept: 0310
Vendor ID: 000000173443 🚖	SO Doc ID: DNR2500000003
Legal Name: POTESTA & ASSOCIATES INC	Published Date: 5/2/25
Alias/DBA:	Close Date: 5/20/25
Total Bid: \$0.00	Close Time: 13:30
Response Date: 05/20/2025	Status: Closed
Response Time: 12:30	Solicitation Description: A&E - Sleepy Ck WMA New Shooling Range
Responded By User ID: KITINGLER	Total of Header Attachments: 1
riist Name: Knsti	
Last Name: Tingler	
Email: kjtinger@potesta.com	
Phone: 3045531269	



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:	1603639	1603639			
Solicitation Description:	A&E - Sleepy Ck WMA New Shooting Range				
Proc Type:	Central Purchase Order				
Solicitation Closes		Solicitation Response	Version		
2025-05-20 13:30		SR 0310 ESR05202500000007172	1		

VENDOR					
000000173443 POTESTA & ASSOCIATES INC					
Solicitation Number:	CEOI 0310 DNR2500000003				
Total Bid:	0	Response Date:	2025-05-20	Response Time:	12:30:17
Comments:					

FOR INFORMATION CONTACT THE BUYER Joseph (Josh) 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	Civil engineering					0.00
Comm	Code	Manufacturer		Specifica	ation	Model #
811000	00	Manalactarci		opeeniee		

Commodity Line Comments:

Extended Description:

Design and Contract Administration of Sleepy Creek WMA Shooting Range New Construction.



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:	1603639		Reason for Modification:
Doc Description:	A&E - Sleepy Ck WMA New	Shooting Range	
Proc Type	Central Purchase Order		
Date Issued	Solicitation Closes	Solicitation No	Version
2025-05-02	2025-05-20 13:30	CEOI 0310 DNR250000003	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: United States	Zip : 25304
Principal Contract - Dans I Duma DE		

Principal Contact: Dana L. Burns, P.E., P.S., President

Vendor Contact Phone: 304-342-1400 Extension:

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

Vendor Signature X Jana L. Burns

FEIN# 31-1509066

DATE 05/16/2025

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Divisionis soliciting Expression(s) of Interest) for Division of Natural Resources from qualified firms to provide engineering services to evaluate, design, specify, and provide Construction Drawings for bidding purposes and contract administration services for a new Shooting Range at Sleepy Creek WMA. per the attachd specifications and terms and conditions.

INVOICE TO		SHIP TO	
DIVISION OF N	ATURAL RESOURCES	STATE OF WEST VIR	GINIA
112 CALIFORN	IA AVENUE	JOBSITE - SEE SPEC	CIFICATIONS
BLDG 4			
CHARLESTON	WV 25305	No City	WV 99999
US		US	
Line	Comm Ln Desc	Qty	Unit Issue
1	Civil engineering		
Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

Design and Contract Administration of Sleepy Creek WMA Shooting Range New Construction.

SCHEDULE OF EVENTS

<u>Line</u>

<u>Event</u>

Event Date

	Document Phase	Document Description	Page 3
DNR250000003	Final	A&E - Sleepy Ck WMA New Shooting Range	

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)

[] Addendum No. 1	[] Addendum No. 6
[] Addendum No. 2	[] Addendum No. 7
[] Addendum No. 3	[] Addendum No. 8
[] Addendum No. 4	[] Addendum No. 9
[] Addendum No. 5	[] 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.

Potesta & Associates, Inc.

Company

Jana L. Burns

Authorized Signature

05/16/2025

Date

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

Statement of QUALIFICATIONS

WEST VIRGINIA

West Virginia Division of Natural Resources 112 California Avenue, Building 4 Charleston, West Virginia 25305

SOLICITATION NO. DNR250000003 A&E-SLEEPY CK WMA NEW SHOOTING RANGE

PREPARED BY:



CHARLESTON 7012 MacCorkle Ave., SE Charleston, WV 25304 (304) 342-1400 MORGANTOWN 125 Lakeview Dr. Morgantown, WV 26508 (304) 225-2245

Project Number >> 0101-25-0144

WINCHESTER

15 South Braddock St. Winchester, VA 22601 (540) 450-0180



Christopher A. Grose, LRS → (304) 342-1400 7012 MacCorkle Ave., SE → Charleston, WV 25304

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QUALIFICATIONS







EXECUTIVE SUMMARY

Potesta & Associates, Inc. (POTESTA) is pleased to present our Statement of Qualifications to the West Virginia Division of Natural Resources (WVDNR) to provide engineering services to evaluate, design, specify, and provide construction drawings for bidding purposes and contract administration services for the construction of a new shooting range at Sleepy Creek Wildlife Management Area (WMA) in Berkeley County, West Virginia. POTESTA has a deep understanding of the need for a safer, more modern shooting range, one that meets the needs of the region's recreational and hunting communities while prioritizing public safety. We possess expertise in a wide range of infrastructure and construction projects necessitating permits and ensuring the production of deliverables compliant with local, state, and federal regulations. This experience extends to recreational facilities, where we have successfully guided the development of public-use sites that balance functionality, safety, and resource management.

UNDERSTANDING OF PROJECT

The Sleepy Creek WMA current outdoor shooting range is an unsupervised public shooting range offering shooting opportunities for shotguns only with no slug loaded ammunition. POTESTA recently completed an Environmental Stewardship Plan for Lead/Bullet Management for the Sleepy Creek WMA on behalf of the WVDNR. POTESTA not only recommended the implementation of cost-effective measures to minimize and prevent environmental impacts related to the operation of the shooting range but also recommended maintenance and upgrades to enhance its functionality while ensuring effective containment of spent lead.

The WVDNR is proposing the construction of a new rifle shooting range, ideally accommodating target distances up to 200 yards, to better serve the needs of recreational shooters and hunters. The project will include the development of essential supporting infrastructure to ensure safety, accessibility, and user convenience. Planned improvements include upgrading approximately one mile of access road leading to the new site, enhancing the entrance gate for secure access, and constructing a rangemaster office or building for on-site oversight and management. Additionally, the site will feature a permanent restroom or pit toilet facility with a water source, and the new range will be equipped with electrical service extended from the nearby Shockey Knob Trailhead. To support communications and emergency response, the project also includes the installation of a cell service booster. These enhancements aim to create a safe, modern, and user-friendly shooting facility for public use.



West Virginia Division of Natural Resources—A&E-Sleepy Ck WMA New Shooting Range



RELATED EXPERIENCE

POTESTA has successfully managed everything from trail systems and parks to multi-use recreational complexes, maintaining compliance with regulatory requirements. We work closely with clients to create functional, inviting spaces that enhance community engagement and outdoor enjoyment.

POTESTA is currently providing engineering, environmental, and construction phase services in the support of the proposed Kampgrounds of America (KOA) Campground/Resort on the south side of Mylan Park in Monongalia County, West Virginia. The 35-acre KOA campground on reclaimed mine land is projected to have 137 full hook up sites for recreational vehicles, six to ten tent sites, 12-14 cabin sites, lodge/ registration building, community space, propane-filling area, dump station, sanitary pump station, recreational areas, dog parks, cart path, and access to other amenities offered at Mylan Park.



POTESTA recently celebrated the opening of the first three miles of the Cheat River Rail Trail in partnership with our client, the Friends of the Cheat. The multi-use trail features both crushed limestone surfaces and a paved section, with parking available at the nearby Cheat River Trailhead. Additionally, POTESTA was responsible for the design and permitting of the Cheat River Trailhead, which includes wayfinding signage, picnic areas, water fountains, a restroom, a pop-up vendor building, and the Keith Pitzer Memorial Pavilion. The trailhead provides convenient access to both the Cheat River Rail Trail and the Cheat River, serving anglers and recreational boaters alike.

OUR TEAM

Mr. Christopher A. Grose, LRS, Senior Engineering Associate, will serve as the Project Manager for the Sleepy Creek WMA New Shooting Range. He has a deep understanding of the site, as well as the concerns and needs of this area, which is dedicated to conserving wildlife and their habitats while offering recreational opportunities to the public. Mr. Grose will be supported by an experienced team with expertise in civil and environmental engineering, site design, surveying and mapping, roadway design, water resource engineering, and construction monitoring. They will collaborate to complete the project efficiently and on schedule, thus meeting the goals of the WVDNR.

Our Charleston headquarters provides a convenient location for meetings with the WVDNR main office, facilitating direct communication and collaboration. This close proximity strengthens our partnership, allowing us to promptly address project updates, coordinate efforts, and ensure alignment with the WVDNR's goals and expectations throughout the project lifecycle. Additionally, POTESTA maintains a strategically located office in Winchester, Virginia, enabling our team to respond quickly and efficiently to site needs. This proximity allows for timely site visits, better coordination with local stakeholders, and rapid troubleshooting throughout the project, ensuring smooth progress and effective communication.

We look forward to partnering closely with the WVDNR on this exciting project. Together, we are committed to delivering a safe, functional, and sustainable shooting range that will serve the community's recreational needs while preserving the natural environment.



COMPANY PROFILE

Founded 1997 in Charleston, West Virginia by Mr. Ronald R. Potesta, POTESTA is a fullservice engineering and environmental consulting firm that has been delivering exceptional services across the Mid-Atlantic region since its inception. Our team is composed of skilled engineers, scientists, and support staff, with branch offices in Winchester, Virginia, and Morgantown, West Virginia. We serve a diverse range of clients, including local, state, and federal agencies, as well as industries such as mining, manufacturing, utilities, waste management, land development, legal, finance, insurance, education, construction, and architecture.

MAIN POINT OF CONTACT

Ronald R. Potesta CEO

rrpotesta@potesta.com (304) 342-1400

With over 28 years of proven success, we've delivered countless projects marked by quality, reliability, and lasting client relationships.



90+ EMPLOYEES

39 Technical Support

27 Engineers

14 Environmental

11 Administrative



SERVICES



ENGINEERING SERVICES

- Civil Engineering
- **Geotechnical Engineering**
- Water Resources Engineering
- Environmental Engineering
- Site Design
- Stormwater Management
- Water & Wastewater Design
- Transportation Engineering
- Mining Engineering
- Construction Monitoring
- Surveying & CADD

ENVIRONMENTAL SERVICES

- Wetlands & Ecological Studies •
- Remediation & Contaminated Site Cleanup
- Air Quality & Emissions Monitoring
- Waste Management & Recycling
- Environmental Site Assessments
- Water & Wastewater Management
- Hazardous Materials Management

REGULATORY SERVICES

- Permitting
- Environmental Impact Assessments (NEPA)
- Regulatory Liaison
- Health & Safety Plans
- Risk Management & Due Diligence

SPECIALIZED SERVICES

- Geographic Information Systems •
 - **Renewable Energy Consulting**
- Oil & Gas Consulting
- Coal Supply & Procurement
- Land Management Services
- Litigation Support





CIVIL ENGINEERING

POTESTA's engineering team possesses extensive expertise in the various aspects of civil engineering, encompassing site development, utility/infrastructure design, roadway design, grading plan development, and stormwater management. 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

- Site Selection
- Phase I Environmental Site Assessments
- Floodplain Determination
- Right-of-Way Assistance
- 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 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



SITE DEVELOPMENT

When developing a site for commercial, residential, recreational, or industrial purposes, it is essential to extend and install various utility services to equip the site with the necessary infrastructure for water, electricity, sewage, natural gas, telecommunication, and transportation. POTESTA is skilled in planning and designing utility extensions that support site development while also accommodating future growth. POTESTA's comprehensive experience extends to coordination with various utility providers for seamless integration with the site's progress. In addition, POTESTA has successfully facilitated numerous water and sewer extensions on behalf of utility providers and municipalities, ensuring that the infrastructure meets both current and future needs the systems.



UTILITY EXTENSIONS FOR SITE DEVELOPMENT

- Electrical Infrastructure—power lines, transformers, substations, lighting, and backup power.
- Water Supply and Distribution—water main extensions, water treatment plant, metering stations, irrigation systems, and fire hydrants.
- Sewer and Wastewater Management—sanitary sewer lines, wastewater treatment, and sewer pump stations.
- **Telecommunication Infrastructure**—fiber optic lines, cable TV/phone lines, cellular and broadband networks.
- **Natural Gas Suppl** —gas main extensions, gas metering stations, and gas distribution.
- **Transportation Infrastructure**—roadway extensions, access (entrances, exists, proper signage), pedestrian pathways, and parking areas.
- **Stormwater and Drainage Systems**—retention and detention ponds, stormwater infiltration systems, green infrastructure, stormwater conveyance systems, and sediment and pollution control.
- Waste Management—waste collection and recycling stations, industrial waste systems, and hazardous waste management.
- Security and Safety Infrastructure—fencing and gates, CCTV systems, fire suppression and alarm systems, and emergency access roads.



ROADWAY ENGINEERING

Designing roads and planning construction projects requires a diverse skill set and a thorough understanding of the standards, specifications, and approval processes established by the Department of Transportation and local planning and public works departments. POTESTA brings extensive expertise in civil, environmental, and geotechnical engineering, as well as hydrology and hydraulic design, to a wide range of roadway design projects. These include designing roadways for agency initiatives, access roads for industrial, recreational, and business parks, educational institutions, commercial enterprises, and residential developments. Additionally, we specialize in designing new roadways and improving existing ones through widening, adding turning lanes, and implementing other enhancements.

PRELIMINARY ENGINEERING

- Project Conception
- Environmental Assessment
- NEPA Compliance
- Permitting—Right-of-Way
- Geotechnical Explorations and Recommendations
- Surveying/Mapping
- Alignment and Grading
- Utility Coordination

DESIGN SERVICES

- Flexible and Rigid Pavement Design
- Drainage Design Surface and nonsurface, side drains, cross drains, inlets and catch basins, outfalls
- Safety Features Sidewalks, crosswalks, bike lanes, signage
- Stormwater Management Detention/ retention ponds infiltration basins
- Erosion Control
- Regulatory Compliance
- Preparation of Construction, Right-of-Way Plans, and Specifications
- Construction Phase Services



West Virginia Division of Natural Resources—A&E-Sleepy Ck WMA New Shooting Range



GEOTECHNICAL ENGINEERING

POTESTA offers experienced engineers adept in using the latest technologies for subsurface explorations, monitoring well and piezometer installations, foundation design recommendations, slope stability analysis, retaining walls, and remedial designs. POTESTA has extensive experience in assessing soil conditions, conducting site-specific testing, and providing foundation recommendations to ensure the stability, safety, and long-term performance of transportation infrastructure. With our understanding of proper procedures and familiarity with local conditions, our office and field teams can adapt exploration plans in response to any unexpected field conditions.



SUBSURFACE EXPLORATIONS

- **Preliminary Site Reconnaissance**—on-site evaluation to assess general conditions and identify potential challenges.
- **Development of Exploration Program**—customized subsurface exploration plan based on site conditions. Our staff is familiar with drilling and rock coring techniques, sample collection methods, classification and logging of soil and rock samples, and monitoring well and piezometer installations.
- **Supplemental Information**—obtain additional local data from available sources, including geotechnical reports, historical data, and regulatory documents.
- **Final Recommendations**—analyze the collected data to adjust the exploration plan and deliver informed, precise recommendations for foundation design, structural stability, and the overall success of the project.



West Virginia Division of Natural Resources—A&E-Sleepy Ck WMA New Shooting Range



SLOPE STABILITY & REMEDIAL DESIGN

- **Slope Stability Analysis**—uses methods such as circular failure analysis, sliding block analysis, and interface friction angle determination. Estimates the strength parameters of soil or rock to assess potential slope instability and risks.
- Forensic Engineering Assessment—review geotechnical data, investigate changes in site conditions, determine what contributed to the failure, and re-analyze the slope to determine what conditions led to the failure.
- **Preventive Measures in Initial Project Design**—develop strategies to prevent slope failures during the design phase. Focus on designing stable slopes and ensuring overall project safety.
- **Remedial Design Recommendations**—assess site-specific conditions and recommend remedial actions for slope failure repair. Various solutions include regrading the site for improved stability, managing groundwater to reduce pore pressure and instability, and designing appropriate retaining structures. Experienced in a wide variety of retaining structures including gabion baskets, soldier beam and lagging walls, sheet piles, reinforced concrete walls, and reinforced earth slopes.

FOUNDATION DESIGN RECOMMENDATIONS

- **Preliminary Foundation Design & Cost Analysis**—assess the feasibility of different foundation options including spread and strip footings, steel piles, auger-case concrete piles, drilled piers, and reinforced mat foundations. The preliminary alternatives will be refined as the project progresses, and more detailed site data and design information become available.
- **Final Foundation Recommendations**—preliminary foundation recommendations are developed into a final foundation design that can be integrated into the project's construction documents or presented separately as an independent package for the contractor. The final recommendation will include construction drawings, technical specifications, allowable bearing capacity, engineer's construction cost estimate, and contractor's bid sheet.



West Virginia Division of Natural Resources—A&E-Sleepy Ck WMA New Shooting Range



HYDROLOGY AND HYDRAULICS

POTESTA's engineers have extensive experience applying hydrology and hydraulic principles to understand and manage the effects of water on soil behavior and structural stability. Proper application of these principles is crucial for preventing water-related issues such as flooding, erosion, and slope failures, ensuring the long-term durability of geotechnical structures. The interaction between water, soil, and the built environment has significant implications for geotechnical design and analysis.

GROUNDWATER FLOW, DRAINAGE, AND WATER FLOW

- Groundwater Table Mapping
- Hydrological & Hydraulic Modeling
- Site Drainage Assessment
- Hydraulic Conductivity Testing
- Drainage System Design
- Slope Stability Analysis
- Contaminant Transport & Groundwater Quality
- Construction of Groundwater Barriers
- Design of Earth Dams & Levees

- Piezometer Installation & Monitoring
- Design of Cutoff Walls/Impermeable Barriers
- Stormwater Management
- Groundwater Flow Analysis & Modeling
- Seepage & Flow Net Analysis
- Dewatering Design & Implementation
- Shallow & Deep Foundation Design
- Settlement Analysis
- Flood Risk & Erosion Control



West Virginia Division of Natural Resources—A&E-Sleepy Ck WMA New Shooting Range



SURVEYING/MAPPING

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 utilizes Total Station instruments, Trimble R-8 Glonass, RTK GPS Systems, AutoCAD, Autodesk Land Desktop, and Autodesk Civil 3D Design Software to deliver precise surveying, mapping, and engineering solutions, ensuring accurate data collection and efficient project design for the required deliverables.

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.

CADD SERVICES

- Integration with Survey Data—field measurements, GPS data, LiDAR, etc. used to develop topographic maps and 3D models of the site.
- Site Design—grading plans, drainage plans, utilities plans, and right-of-way plans.
- **Roadway Design**—roadway alignment, cross section and profile design, pavement design, drainage and stormwater management, intersection design, and markings and signage.
- **Utility Design**—utility mapping, water distribution, sewer, and stormwater systems design, gas network design, electrical design, and telecommunication/fiber optic network design.
- **Permit Drawings, Maps, & Exhibits**—construction details, site plans, utility and building layouts, topographic, property boundary, zoning, environmental, location maps, renderings and 3D models, aerial and satellite imagery overlays, conceptual plans, stormwater and drainage exhibits, and conditions exhibits.
- **Earthwork & Planimetric Quantity Development**—earthwork design and quantity calculation, earthwork reports and documentation, planimetric quantity development, and earthwork and planimetric quantity analysis.



SURVEYING/MAPPING

POTESTA offers comprehensive Geographic Information Systems (GIS) applications to generate reports and databases for projects that require advanced visual interpretation and analysis. This technology manages data on soil, groundwater, utilities, property ownership, mining conditions, environmental contamination, topography, land use, and other relevant factors, enabling clients to gather critical information about a parcel of land and make informed decisions.

POTESTA utilizes GIS software, including ArcGIS 3D Analyst and Spatial Analyst, to create and manage datasets for a variety of applications. With ArcGIS Spatial Analyst, POTESTA can construct and analyze complex surfaces to identify patterns and features within the data. This tool also allows for the generation of derived data such as shaded relief, contours, slope angles, aspect, hillshade, viewshed, curvature, and cut/fill information. Additionally, ArcGIS 3D Analyst enables the visualization and analysis of data from a 3D perspective, providing the ability to derive contours, slope, and viewshed information for a surface.

The GIS tools help geotechnical engineers manage, analyze, and visualize spatial data related to soil, rock, and groundwater conditions.



GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS

- Spatial Analysis
- Distance Analysis
- Site Design Analysis
- Hydraulic Modeling and Floodplain Mapping
- GPS Field Data Collection
- Risk Assessments
- Site Remediation
- Linear Projects
- Rendering
- Noise Studies

- Land Use Mapping
- Geodatabase Management
- After the Fact Stream/Wetland Analysis
- Cartography and Map Production
- Environmental Impact Statements
- Groundwater Investigations
- Natural Resources Assessment Mapping
- NEPA Compliance
- Viewshed Analysis
- Urban Planning

• Permitting



REGULATORY COMPLIANCE

Beyond providing design services, POTESTA is uniquelv equipped to deliver environmental consulting, an essential component for projects of this Most projects carried out by POTESTA nature. 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 projects. lt's essential to engage in early and ongoing communication with local municipalities. state agencies. environmental agencies, and other stakeholders to identify the specific permits required POTESTA possesses a for the proiect. comprehensive understanding of local regulations and experience coordinating with relevant authorities for a smooth permitting process.



NEPA-RELATED SERVICES

- Aesthetics
- Cumulative Impact Studies
- Floodplain Impacts
- Noise and Air Quality Analysis
- Endangered Species Consultation
- 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



CONSTRUCTION PHASE SERVICES

Support services during the engineering construction phase include essential activities that ensure the projects. smooth execution of POTESTA offers construction monitoring and administration services to help clients meet regulatory and contractual requirements. We ensure that contractor activities align with design specifications and act as an extension of clients' staff, providing comprehensive support throughout the construction process. These support services are crucial to ensuring the successful completion of projects on time, within budget, and to the required quality standards.



CONSTRUCTION OBSERVATION

- **Construction Oversight** 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.
- **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.

CONSTRUCTION ADMINISTRATION

- **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.
- **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.
- **Contractor Management** Review contractor work plan, progress schedule, shop drawing/sample submittal schedule, and schedule of values. Evaluate and recommend payment for contractor invoices (Applications for Payment). Review and approve/deny substitutes and "or equal" items.

STAFFING







STAFFING PLAN

DNR

DANA L. BURNS, PE, PS* Principal-in-Charge—45 Yrs.

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

CHRISTOPHER A. GROSE, LRS

Project Manager—33 Yrs.

Project activities perform under his direction and maintains schedule and budget.

FIELD RECONNAISSANCE, DESIGN, AND CONSTRUCTION DOCUMENTS

Mark Kiser, PE, LRS – 41 Yrs. Jarrett Smith, PE – 22 Yrs. Kyle Stollings, PE – 41 Yrs. Paul Maggard, PE – 25 Yrs. Matt McLane – 29 Yrs. Tim Rice, EIT – 42 Yrs. Chad Griffith, PE – 20 Yrs. Daniel Boyles, EIT – 5 Yrs. Joe Knechtel, PE – 34 Yrs. Claire McDonald, EIT – 2 Yr. Alex Keenan, EIT – 6 Yrs. Josh Messmer – 6 Yrs.

UTILITY DESIGN

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 – 14 Yrs. Tim Ball, PE – 45 Yrs. Joseph Dinkel – 14 Yrs. Jake Davis, EIT – 5 Yrs.

Derek Rader – 4 Yrs. Ahmet Oruc – 2 Yrs.

PERMITTING, STREAM/ WETLAND, AND NEPA COMPLIANCE

Jessica Yeager – 29 Yrs. Timothy Ferguson – 17 Yrs. Christina Parsons – 25 Yrs. Leah Creathers – 18 Yrs. Dan Miller, PhD – 46 Yrs. Justin Collins – 3 Yrs. Cole Davis – 3 Yrs. Olivia Creel – 1 Yr.

SOILS/GEOTECHNICAL/ HYDROLOGICAL EVALUATIONS

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

CONSTRUCTION MONITORING

Robert Lamm – 23 Yrs. Paul Kinzer – 26 Yrs. Charles Shaffer – 22 Yrs. Russ Harper – 16 Yrs. Carl Hickman – 45 Yrs. Anthony Fragale – 46 Yrs. Francis Hyre – 42 Yrs. Gabe Sankoff – 2 Yrs.

SURVEYING

Ryan Bennett, PS – 10 Yrs. Victor Dawson, PS – 41 Yrs. Rusty Hunter – 42 Yrs. Tyler Aboytes – 9 Yrs. Ryan Pettry – 2 Yrs. Stephan Sayles – 2 Yrs. Shymeik Leftwich – 1 Yr.

MAPPING/CADD

Chip Haden (GIS) – 14 Yrs. Scott Bolyard – 33 Yrs. Anthony Friend – 27 Yrs. Michael Sankoff – 34 Yrs. Brian Leedy – 23 Yrs. Russ Lester – 34 Yrs. Joe Martin – 30 Yrs. Chuck Bird – 31 Yrs. Charles Mosholder – 44 Yrs. David Foster – 11 Yrs. Austin Davis – 2 Yrs.



KEY PERSONNEL

Appendix A contains resumes and certifications of key personnel.



Principal-in-Charge — Dana L. Burns, PE, PS, President

With more than 45 years of experience, Mr. Burns brings deep expertise in civil, geotechnical, and environmental engineering. He has led the development of site plans for commercial, residential, and industrial projects, and has designed critical utility and transportation infrastructure. His work also includes navigating complex permitting processes and collaborating closely with funding agencies. Currently, Mr. Burns oversees the engineering division's daily operations, directing staff coordination, training, business development, and the overall supervision of both technical and support teams.



Project Manager—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 roadways, bridges, culverts, and earth retention structures, slope stability and engineered fill construction, and foundation recommendations. His experience also includes geotechnical and foundation design for Karst void stabilization under proposed structures. *Mr. Grose was the Project Manager for the WVDNR Shooting Range Improvements and Environmental Stewardship Project which specifically addressed the Sleepy Creek WMA.*



David B. Sharp, PE, Branch Manager

With over 29 years of extensive involvement in civil engineering projects across the region, Mr. Sharp specializes in geotechnical engineering and construction observation/management endeavors. His portfolio encompasses a multitude of projects for developers, utility providers, and government agencies, covering utility design, landslide investigation and repair, stormwater evaluation, site design, permitting, and roadway design. Mr. Sharp has overseen projects from initial planning and assessments to preliminary and final design stages, as well as the preparation of bidding and construction documents. *Mr. Sharp is the Branch Manager of the Morgantown office and Project Manager for the Mylan Park KOA Project in Morgantown, West Virginia.*





D. Mark Kiser, PE, LRS, Chief Engineer

With over 41 years of extensive experience in civil engineering, Mr. Kiser has a diverse background that spans 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 is the Project Manager of the Park Place Development Project in South Charleston, West Virginia.*



W. Kyle Stollings, PE, Senior Engineer

Mr. Stollings has extensive experience in civil engineering, specializing in roadway design, stormwater management, hydraulic evaluations, site development, surveying, and providing technical guidance on Sections 404 and 401 permitting and design projects. Prior to joining POTESTA, he worked for 18 years with the WVDOH, holding various positions where he managed highway project engineering and construction, disaster recovery efforts, public and media relations, and coordinated with state and federal agencies, legislators, and Congressional representatives. His diverse background enables him to effectively navigate complex projects and regulatory processes, ensuring successful outcomes.



Mark A. Sankoff, PE, PS, Chief Engineer

With more than 41 years of experience, Mr. Sankoff specializes in water, wastewater, stormwater, and gas line engineering projects. As the former Director of Engineering for West Virginia American Water, he brings invaluable expertise in the design, operation, maintenance, and management of utility infrastructure systems. His comprehensive experience includes the planning, design, permitting, and construction management of water supply systems, wastewater collection and treatment facilities, and other utility projects.



Jessica L. Yeager, Senior Scientist

With 29 years of experience as an aquatic biologist and toxicologist, Ms. Yeager specializes in assessing the impacts of human activities on aquatic communities. Her expertise includes reviewing and preparing environmental assessments, biological assessments, and other impact studies, as well as securing environmental permits. Skilled in integrating GIS into project development, she has managed projects involving coordination and consultation with Threatened and Endangered (T&E) species and the State Historic Preservation Office (SHPO). Ms. Yeager also provides clients with guidance on the Endangered Species Act, the Clean Water Act, and the National Environmental Policy Act.

PRIOR EXPERIENCE





SHOOTING RANGE IMPROVEMENTS AND ENVIRONMENTAL STEWARDSHIP

West Virginia Division of Natural Resources West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Division of Natural Resources to evaluate and develop environmental stewardship plans and facility improvement recommendations for 29 active public shooting ranges throughout West Virginia. The purpose of the project was to prepare a site-specific lead management plan, outline operational practices, and routine maintenance procedures for each range designed to minimize the potential off-site migration of lead. These plans included detailed protocols for the proper separation, handling, recycling, and transportation of spent lead at each facility. In addition to these plans, POTESTA developed separate recommendations for potential facility upgrades or site improvements to further reduce the risk of lead release.

POTESTA's scope of services included:

- Field Meeting and Site Visit documentation of general site characteristics with photographs, sketches, and written field notes.
- Site Surveying the width of all shooting lanes extending from the shooting benches to the target line, with collection of additional survey information. Development of a site topographic plan for each facility.
- Preparation of Shooting Range Operation/Lead Management Plan specific site details related to the current range configuration and the potential for lead migration off-site. Improvement recommendations with specific recommended best management practice items that can be implemented during regular operations to enhance lead containment while minimizing lead migration from the sites.
- Project Summary Letter Report providing a summary of recommendations for the study sites and ranking the facilities based on overall findings from the site visits and recommendations as a priority concerning lead recovery and recycling.



PROJECT MANAGER

Christopher A. Grose, LRS, Senior Engineering Associate (304) 342-1400 cagrose@potesta.com

GRADING PLAN FOR SHOOTING RANGE

National Whitetail Deer Education Foundation Cambridge, Ohio

Potesta & Associates, Inc. (POTESTA) was retained by the National Whitetail Deer Education Foundation for the development of a grading plan for the proposed shooting range at the Deerassic Park Education Center near Salt Fork State Park on US 22 east of Cambridge, Ohio. The 117-acre Education Center includes a Welcome Center, Ohio Whitetail Hall of Fame, pond, nature center, trails, event areas, and a live educational herd of whitetail deer. Additional services included the design of an alternative access road.

POTESTA's scope of services included:

- Topographical Mapping and Surveying facilitate the layout and grading of the shooting range area, parking area, and the current access road.
- Layout/Grading Plan proper evaluations for the shooting range and balance the cut-to-fill ratio. Evaluation of drainage and drainage features included.
- Access Road topographical mapping and surveying, and layout/grading plan for a dedicated access road to the shooting range.



PROJECT MANAGER

Dana L. Burns, PE, PS, President (304) 342-1400 dlburns@potesta.com

CHEAT RIVER TRAILHEAD

Friends of the Cheat Preston County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Friends of the Cheat (FOC) to provide engineering, architectural, and environmental consulting services for the development of the Cheat River 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



PROJECT MANAGER

David B. Sharp, PE, Branch Manager (304) 225-2245 dsharp@potesta.com

PROPOSED CAMPGROUND

Tanner Smith Summers County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Mr. Tanner Smith to provide a boundary survey and utility layout for the construction of a proposed campground on 8.576 acres along Claypool Road in Summers County, West Virginia. The existing farmhouse on the property is connected to utility services. Extension of these utilities will be required to provide service to the proposed development, which includes 12 campsites or recreational vehicle (RV) pads and a bathhouse.



POTESTA's scope of services included:

- Boundary survey and mapping of the subject property.
- Review of water supply and options for distribution.
- Evaluation of sewage disposal options.
- Preparation of a drawing showing the proposed utility layout for the proposed campground.



PROJECT MANAGER

Robert J. Ammirato, PE, Staff Engineer (304) 342-1400 rjammirato@potesta.com

KENNA RIDGE BUSINESS PARK

Double C Enterprises/Jackson County Development Authority Kenna, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Double C Enterprises and the Jackson County Development Authority to prepare a site development plan and to perform permitting, geotechnical design and construction survey stakeout services for an approximately 65-acre development near Kenna, West Virginia.

POTESTA prepared the topographic mapping for the project from ground survey information. The project included the design of four valley fills and a single side hill fill to accommodate approximately 740,000-cubic yards of excavated soil and rock.



The fill locations were evaluated for geotechnical stability following the completion of test pits and borings. Project staff completed environmental permitting for the project including the preparation and submittal of NPDES construction stormwater permits and U.S. Army Corps of Engineers Section 404 permits.



POTESTA also prepared access roadway plans for the business park entrance. This work was coordinated through the West Virginia Division of Highways to meet current design standards for the Jackson County Development Authority. POTESTA personnel provided daily construction observation of construction efforts involving survey stakeout, soil density testing and sediment pond installation.

PROJECT MANAGER

Christopher A. Grose, LRS, Senior Engineering Associate (304) 342-1400 cagrose@potesta.com
WVDOH WEBSTER COUNTY HEADQUARTERS

ZMM Architects & Engineers Webster County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by ZMM Architects & Engineers to provide surveying, civil/site design, geotechnical engineering, and related services for the construction of the West Virginia Division of Highways (WVDOH), District 7, Webster County Maintenance Headquarters situated on an approximate 14.5-acre parcel near the community of Bolair, West Virginia. WVDOH utilized their medium-sized prototype plans for this project which consisted of an office suite, three vehicle maintenance bays, and a dedicated wash bay.



The initial site was rough graded by the WVDOH, including clearing and grading operations at the site which were required to establish an access road, installation of a new concrete box culvert in Sandy Run, and the grading of two-level terraces in support of the proposed construction.

POTESTA performed the following services:

- Utilized the previous survey to prepare a new topographic survey and base map of the planned development construction documents.
- Provided field technician to provide full-time direction and evaluation of the soil and rock samples during subsurface exploration.
- Preparation of a Geotechnical Report including a general description of the site, site drainage conditions, a brief description of the subsurface soil conditions encountered, and foundation recommendations.
- Development of a site layout plan to indicate the location and orientation of the planned 10,360-square-foot buildings, pedestrian walkways and sidewalks, access drives, parking lot, drainage structures, truck and equipment parking, and storage areas. The site design also included a paving plan for the loads expected from the various vehicles.
- Preparation of a site grading plan to provide the proposed site's finished grade elevations with spot elevations and contours, finished floor elevations of the planned structures, parking lot grades, site drainage features, sidewalks, etc.
- Coordination with local utility providers and preparation of utility design plans and profiles.
- Preparation of stormwater management plan.

PROJECT MANAGER

Christopher A. Grose, LRS, Senior Engineering Associate (304) 342-1400 cagrose@potesta.com

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.

PROJECT MANAGER

D. Mark Kiser, PE, LRS, Chief Engineer (304) 342-1400 dmkiser@potesta.com

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.



PROJECT MANAGER

D. Mark Kiser, PE, LRS, Chief Engineer (304) 342-1400 dmkiser@potesta.com

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. POTESTA established horizontal and vertical control at the site and performed conventional surveying. POTESTA located visible existing utilities as they pertain to the property. POTESTA 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.



PROJECT MANAGER

David B. Sharp, PE, Branch Manager (304) 225-2245 dsharp@potesta.com

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.



PROJECT MANAGER

D. Mark Kiser, PE, LRS, Chief Engineer (304) 342-1400 dmkiser@potesta.com

GIS DESKTOP REVIEW/SITE EVALUATION STUDY (ROCK CREEK DEVELOPMENT)

West Virginia Department of Economic Development Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the West Virginia Department of Economic Development to complete a geographic information system (GIS) desktop study of the former Mine 21 surface mine near the Town of Danville, Boone County, West Virginia. Portions of the former mined property were acquired through purchase agreements by the state which included four separate parcels totaling approximately 3,300 acres. The state's commitment to developing the property began with roadway upgrades along US Route 119 (Corridor G) to construct a new exit and access road. An additional contract was awarded to complete initial clearing and grading along the former mine access road from Corridor G to the property.

POTESTA's services on this project included the study of digital elevation files of the various parcels.

- The digital topography was filtered using geographic information software (ArcGIS) to delineate areas of the site that existed with 20 percent or less slopes.
- These results were then consulted to focus field visits to the site to view potential candidate development sites.
- Specific and focused site evaluations were then completed on many of the final candidate sites.
- These focused studies included a review of the previous mining disturbance, reclamation efforts, potential for existing deep mining, site grading, access, and establishment of site utilities.



PROJECT MANAGER

Terence C. Moran, PE, Senior Engineer (304) 342-1400 tcmoran@potesta.com

WV DEPARTMENT OF ECONOMIC DEVELOPMENT GIS DESKTOP REVIEW/SITE EVALUATION STUDY (ROCK CREEK DEVELOPMENT) PAGE 2

POTESTA's work also included the preliminary study of sanitary sewer and water service to the site.

- Preliminary design reports were prepared for the sanitary sewer extension, as well as an alternative to supply the property with water from an existing public service district.
- Electric, natural gas, and broadband utility service alternatives were also developed.
- Due to the size of the property, POTESTA utility plans included consideration for phased installation allowing for several extensions that could be pursued following future expansion and buildout of the property.

POTESTA was asked to prepare budgetary-level site development costs for several parcels that were located near the development access road. Conceptual site grading plans were prepared with the excess volume of excavated material being placed either on or in front of existing mine valley fills throughout the property.



CONCEPT FOR WATER SUPPLY AND SANITARY WASTEWATER SERVICE ROCK CREEK DEVELOPMENT PARK - PHASE 1

Consultant for West Virginia Development Office Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by a consultant for the West Virginia Development Office to prepare a concept for extending water supply and sanitary sewer service to the proposed Rock Creek Development Park – Phase 1 (i.e., former Hobet site). To complete this, POTESTA:

- 1. Visited the site.
- 2. Completed preliminary engineering of concepts to extend 100,000 gallons per day of water supply and sanitary sewer service to the site, and developed an estimated project cost of \$12,000,000 including costs for an upgrade of a wastewater treatment plant.
- 3. Prepared a memorandum summarizing our findings, presenting details of the estimate, and a supporting figure on alignment.



Figure Presenting Water/Sewer Alignments

PROJECT MANAGER

Terence C. Moran, PE, Senior Engineer (304) 342-1400 tcmoran@potesta.com

GREENBAG ROAD COMMERCIAL DEVELOPMENT

Glenmark Real Estate, LLC Greenbag Road, Morgantown, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the owner/developer (Glenmark) to provide civil engineering design services for a commercial development on Greenbag Road in Morgantown, West Virginia. The development consists of two buildings totaling 12,000 square feet of commercial space. The project includes two entrances from public roadways, retaining walls, underground stormwater retention systems, paved parking lots, and landscaping.



Specific services provided by POTESTA on this project included:

- Surveying Topographic mapping, property and right-of-way boundaries, and utility locations.
- Geotechnical recommendations evaluating the soil onsite and providing suggestions concerning fill material and foundations.
- Grading plan including cut/fill for the project site, integrated AutoCAD Civil 3D/Revit modeling, entrance/roadway design, and compliant sidewalks.
- Storm water collection system design includes an underground retention system, water quality units, curb inlets, catch basins, and connection to the City of Morgantown's existing stormwater system.
- Utility extension/connection designs including sanitary sewer, storm sewer, potable water, and fire services.
- Permitting and coordination services including coverage of site development through the West Virginia Department of Environmental Protection Construction Storm Water Permit, Morgantown Utility Board's MS4 Storm Water Permit, City of Morgantown right-of-way coordination, as well as coordination with the owner, architect, structural engineer, and contractors.
- Technical specifications include stormwater piping, subdrainage, earthwork, concrete, and asphalt paving.

PROJECT MANAGER

David B. Sharp, PE, Branch Manager (304) 225-2245 dsharp@potesta.com

GEOTECHNICAL ENGINEERING FOR NEW BUSINESS SCHOOL

FP Marshall LLC Huntington, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by FP Marshall LLC to provide geotechnical engineering services for the planned Lewis College of Business/Brad D. Smith Schools of Business at Marshall University in Huntington, West Virginia. The planned project includes the construction of a multistory educational structure totaling approximately 75,000 square feet. The planned building will be a threestory steel frame structure with partially cantilevered second and third floor to the north and east. A landscaped greenspace area will be located immediately to the east of the structure with surface parking and a loading dock provided along the southern side of the building.



POTESTA completed the following geotechnical engineering services:

- Advancement of a total of ten subsurface geotechnical exploratory borings within the vacant lot.
- Collection and soil strength testing of subsurface soil and rock samples.
- Survey for determination of approximate locations of the existing buried and aboveground utilities.
- Geotechnical Report included general geotechnical design, general foundation construction, and site preparation considerations and recommendations.
- Construction observation and field-testing services during initial site grading, placement of fill, and construction phases including field density testing, rebar inspection, bearing capacity testing, and concrete and grout testing.
- Daily site observations, results obtained from various field tests, and completed site work recorded and documented using POTESTA's standard field activity log forms. Additional site information on these forms included activities, weather conditions, equipment utilized, and estimated quantities of material placed.

PROJECT MANAGER

Christopher A. Grose, LRS, Senior Engineering Associate (304) 342-1400 cagrose@potesta.com

BAKER BUSINESS PARK INDUSTRIAL ACCESS ROAD

Hardy County Rural Development Authority Baker, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Hardy County Rural Development Authority to provide engineering services for the study, design, and preparation of construction contract plans, related documents, and construction oversight services for the planned industrial access road for the Baker Business Park District (BBPD). The purpose of this project was to permit, design, and construct an industrial access road from Corridor H to the BBPD and the addition of deceleration lanes on the Corridor. POTESTA completed the following scope of services to prepare construction contract plans and related documents for the industrial access road in accordance with West Virginia Division of Highways'(WVDOH) requirements:

- Surveying/Mapping Performed a field survey in the vicinity of the proposed industrial access road to generate accurate mapping along Corridor H, and to verify the accuracy of existing mapping.
- Right-of-Way Plans Development of right-of-way information and the preparation of RW-4 plans including property descriptions.



- Roadway Design and Preparation of Contract Plans Prepared contract plans for the proposed industrial access road into the BBPD.
 - Conceptual layout, drainage analysis, geometric design and layout of proposed roadways, intersection layout and details, temporary maintenance of traffic plans, Erosion and Sediment Control Plans, and signage and pavement marking plans.
- Meetings Attended meetings as the Owner Representative including preliminary meetings with the WVDOH, on-site construction startup meeting, progress meetings, and miscellaneous telephone conversations and meetings.
- **Roadway Surveying** Surveying to assist in the design necessary to complete construction of the industrial access road.
- Construction Observation Performed construction observation during the construction of the industrial access road.
 - Full-time field technician on site, design team member provided periodic site visits, daily construction logs, detailed site review and punch list for the contractor, and a summary report describing the work that included the various daily reports, compaction test data and product literature.

PROJECT MANAGER

Mark A. Sankoff, PE, Chief Engineer (304) 342-1400 masankoff@potesta.com

GEOTECHNICAL EVALUATION MONONGALIA GENERAL HOSPITAL ACCESS ROAD

Alpha Associates, Inc. Morgantown, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Alpha Associates, Inc. (Alpha) to provide geotechnical evaluation services for the Monongalia General Hospital access road in Morgantown, West Virginia. POTESTA performed a subsurface exploration, which included nine subsurface test borings and are elaborated as follows:

- Four of these borings were terminated before refusal encountered where a minimum required depth of 5 feet below the proposed road surface elevation was achieved.
- Two borings were terminated upon refusal and no rock core was collected.
- The remaining three borings went to refusal and included rock coring to assist in the geotechnical recommendation.

Samples were gathered and tested to provide more information pertaining to the subsurface conditions. Using the data from the subsurface exploration, POTESTA was able to provide recommendations pertaining to, but not limited to, fill material to be used, compaction, earthwork excavation, groundwater, site preparation and development, possible retaining walls, slopes in the road, and provided general geotechnical considerations.



PROJECT MANAGER

David B. Sharp, PE, Branch Manager (304) 225-2245 dsharp@potesta.com

PROJECT & GOALS





GOALS/OBJECTIVES

The Sleepy Creek WMA New Shooting Range project entails delivering comprehensive engineering services for the design and construction of a new rifle shooting range and supporting infrastructure at the Sleepy Creek WMA in Berkeley Springs, West Virginia. From initial analysis through construction-phase services, POTESTA will make sure your project progresses smoothly and efficiently through every stage of development.

POTESTA understands that the WVDNR has set specific goals for this project, and we are committed to addressing them as outlined below:

GOAL/OBJECTIVE 1: SITE REVIEWS AND PLANNING COORDINATION

POTESTA will perform a detailed assessment of the current site and its conditions to identify existing features, constraints, and opportunities. This will involve site inspections, data analysis, and a review of current facility operations.

Throughout this process, we will maintain clear and consistent communication with the owner to fully understand the project requirements and operational considerations. Our team will work closely with stakeholders to develop a strategic plan that supports the project goals while minimizing interference with the facility's ongoing activities.

By combining technical insight with a collaborative planning approach, we aim to deliver a solution that meets project objectives efficiently and with minimal operational disruption.

GOAL/OBJECTIVE 2: COMPREHENSIVE DESIGN SERVICES

POTESTA will deliver thorough engineering services to design the required facilities in a way that reflects the priorities and expectations of the WVDNR. Our team will make sure that design elements align with current legal requirements, applicable codes, and WVDNR's established standards.

We will coordinate closely with WVDNR to develop a solution that supports the project's goals while adhering to the approved budget. Our process emphasizes efficiency, regulatory compliance, and cost-effective design strategies to achieve successful project execution without compromising quality or scope.

GOAL/OBJECTIVE 3: CONSTRUCTION CONTRACT ADMINISTRATION

POTESTA will deliver construction contract administration services through a skilled team of professionals who are committed to confirming the project is built according to the approved plans and performs as intended. Our responsibilities will include close coordination with the contractor and owner, thorough review of submittals, and routine site visits to observe progress and verify compliance with project specifications.

By maintaining clear communication and proactive oversight throughout the construction phase, we will help assure the final outcome aligns with design expectations, functions efficiently, and meets quality standards.



POTESTA utilizes our technical expertise and extensive experience to navigate the complexities of project management.

POTESTA's typical overall system of methods to conduct a project includes the following:

1) PROJECT SCOPE AND REQUIREMENTS

Collaborate with the client to clearly define the project goals, technical specifications, budget, and timeline. We will make sure that design requirements meet relevant codes and standards while aligning with operational needs. A realistic budget and schedule will be established to guide the project efficiently from start to finish. This approach promotes clear communication and a shared understanding among all stakeholders.

2) SITE ANALYIS AND DATA COLLECTION

The initial site investigation will include a detailed reconnaissance and surveying to map existing conditions and site features. Soil assessments will be conducted to evaluate subsurface characteristics and identifv potential geotechnical issues. Hydrological data will be gathered to understand patterns and manage drainage stormwater Existing utility infrastructure will be effectively. located and documented to inform design and prevent conflicts during construction.

3) PRELIMINARY DESIGN

Develop preliminary design concepts supported by initial calculations to assess feasibility and performance. These design options will be reviewed collaboratively with the client and stakeholders to gather feedback. Based on input received, the designs will be refined to better align with project objectives, budget, and operational needs. This step-by-step approach ensures a practical and wellinformed final design.

4) PERMITTING/REGULATORY COMPLIANCE

Manage the process of obtaining required permits essential for the project's successful progression. We will verify compliance with applicable local, state, and federal regulations to uphold safety, environmental protection, and legal standards. Throughout the project, we will maintain diligent oversight to confirm that all regulatory requirements are met, minimizing risk and facilitating smooth approvals.

5) FINAL DESIGN

The final design will integrate the technical requirements, regulatory standards, and stakeholder inputs to provide a comprehensive and practical solution. Detailed drawings and specifications will be prepared to guide construction and facilitate accurate implementation. This design will serve as the foundation for successful project execution and long-term performance.

6) **BIDDING ASSISTANCE**

Development of the bid package will involve preparing essential project documents, including detailed specifications and requirements. This process will be followed by soliciting bids, addressing bidder inquiries, evaluating proposals, assisting in contractor selection, facilitating bid awards, and providing post-bid support so that the project proceeds smoothly and successfully.

6) CONSTRUCTION PHASE SUPPORT

Construction monitoring involves overseeing the construction process to verify compliance with project plans and specifications. This includes conducting field testing of materials, tracking progress, preparing reports, administering contracts, and adherence to environmental regulations. Additionally, it encompasses thorough documentation, maintaining accurate records, and managing contractor activities to keep the project on schedule and uphold quality standards.



PROJECT PERFORMANCE

A remarkable 85% of our projects are derived from repeat clients, underscoring our commitment to delivering exceptional results. At POTESTA, we take pride in our capacity to deliver innovative and succinct engineering design packages, allowing for a greater proportion of the client's funds directed toward actual construction rather than engineering design fees.

CRITICAL FACTORS FOR SUCCESS

POTESTA follows critical success factors for each new project:

- Establishing clear, mutually agreed-upon goals with the client.
- Development of a concise and actionable project plan.
- Implementation of proactive risk management throughout the project lifecycle.
- Scope management is a continuous process, making sure work remains within defined boundaries while accommodating necessary adjustments.

EFFECTIVE COMMUNICATION

POTESTA believes clear and efficient 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.





Our large and experienced team enables us to respond promptly and adapt to project needs, while allowing for complex, cross-functional projects to benefit from the direct involvement of our in-house specialists. POTESTA has designated an experienced Project Manager to lead and coordinate all aspects of this project. Supporting the Project Manager is a multidisciplinary team of qualified engineers, surveyors, CADD designers, scientists, and technicians who will collaborate closely to assist the WVDOH at every stage of the project.

Our dedicated team is ready to begin projects promptly upon receiving the Notice to Proceed and adhering to the WVDOH's required schedule.



PROJECT PERFORMANCE

For every project, we assemble a focused and accountable team that is fully committed to delivering high-quality results, meeting the client's expectations, and staying within the approved budget and timeline.

SCHEDULE CONTROL

POTESTA has a proven track record of successfully meeting tight project deadlines and achieving key milestones on schedule. The Project Manager holds primary responsibility for managing and controlling the project timeline, assuring that all tasks are executed efficiently and coordinated effectively.

- At the start of the project, the Project Manager evaluates the schedule requirements in relation to the anticipated scope of work to determine a realistic plan for meeting deadlines.
- Progress is reviewed on a weekly basis and compared to the approved schedule, with regular updates provided to the Principal-in-Charge.
- If needed, the Principal-in-Charge can reallocate staff to support schedule adherence.
- Should unexpected issues arise that may impact the timeline, the Project Manager will promptly coordinate with the client to develop a mutually agreeable adjustment to the schedule or work plan.



COST CONTROL

POTESTA implements a proactive cost control approach to make sure projects stay within budget while maintaining quality and performance. Our Project Managers regularly monitor expenditures against the approved budget using real-time data from our accounting system, allowing for early identification of potential overruns. This ongoing oversight enables timely adjustments and transparent reporting to the client throughout the project lifecycle.

- The Project Manager oversees the project budget and provides regular updates to the Principal-in-Charge on its status.
- The Project Manager prepares a detailed work plan that defines the required tasks and associated hourly rates needed to successfully complete the project.
- POTESTA uses InFocus, a cloud-based accounting system, that provides real-time tracking of project progress, including time and expenses, milestones, and vendor or subcontractor information.
- Project updates are readily available, allowing for seamless communication among team members, subcontractors, and clients.

REFERENCES







REFERENCES

Civil Engineering and Site Development

MORGAN COUNTY COMMISSION

Alex Moore 77 Fairfax Street Berkeley Springs, West Virginia 25411 (304) 258-8540

→ County Engineer

CITY OF SOUTH CHARLESTON

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



Park Place Development

HUNTINGTON SANITARY BOARD

Patrick Taylor, PE 555 7th Avenue Huntington, West Virginia 25701 (304) 696-4437



Master Agreement - Wastewater System Improvements



FOR MORE INFORMATION CONTACT:

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

APPENDIX A



DANA L. BURNS, P.E., P.S. 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 developing 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 the engineering division, including day-to-day operation of headquarters three branch offices concerning staffing, and 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 the 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 448,000gallon 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 subconsultant 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.

<u>Geotechnical</u>

Subsurface exploration, evaluation, and design of remedial measures for landslides:

- Soldier beams and lagging retaining walls
- Gabion walls
- Grade/drain/compact in-place
- Geo-grid reinforcement with grade/drain/compact inplace

Plasma Processing Corporation – Management of subsurface exploration and preparation of soil report near Ravenswood, West Virginia.

DANA L. BURNS, P.E., P.S. Page 4

West Virginia University – Principal-in-Charge for the following projects:

- WVU Intermodal Parking Garage on the Medical Center Campus geotechnical and civil engineering
- WVU Engineering Building geotechnical evaluation

Principal-in-Charge for Williamson Landslide Project involving an abandoned mine land site. Geotechnical exploration and design of a 480-foot-long soldier beam and lagging retaining wall with tiebacks to support loose mine spoil backfill along the edge of a previously mined area with steep terrain. The project was required to protect an existing 125-bed nursing home facility. STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Ito whom these presents shall come, Greeting.

TRuow De That the Shile 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 AVAILORIALY VESTED IN 13 by law, hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Mumber 9859 (To Gold) and use such title in the practice of his profession, subject to the conditions prescribed by law.

Secretary



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

Antenel Frankt Goddy

Robert S. Scott President. Monwe Q. Jicher

Kenneth H. Meana



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 American 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.

AECOM – Subsurface exploration that resulted in geotechnical engineering design recommendations for the planned Marshall University soccer complex facility, known as the Veterans Memorial Soccer Complex, in Huntington, West Virginia. This indoor practice facility is located on a 4.3-acre tract of land between 4th and 5th Avenue. This project comprised a new outdoor soccer field, 1,000-plus stadium seating, a parking lot, and an associated building with locker rooms, coaches' offices, a concession area, and a ticket office.

AECOM – Subsurface exploration to result in geotechnical engineering design recommendations for the planned Marshall University indoor athletic facility, known as the Chris Cline Indoor Athletic Facility, at Marshall University in Huntington, West Virginia. This indoor practice facility is located to the east of the existing Marshall stadium on a 6-acre tract of land, which is situated near 3rd Avenue. This project consisted of a new indoor practice facility and an integrated masonry office and classroom structure to house the sports medicine department.

Kanawha County Schools – Geotechnical engineering, construction observation, and field-testing services for the site development, utility installation, and bidding construction efforts related to the new Clendenin Elementary School in Clendenin, West Virginia. The project included the construction of a new 0.7-mile access roadway to the elementary school site, site preparation of a new building pad, and the construction of a new 65,000 SF structure.

FP Marshall, LLC – Geotechnical engineering, construction observation, and field-testing services for the construction of the new 78,000 SF Brad D. Smith Center for Business and Innovation at Marshall University. The new three-story steel frame and masonry structure was constructed along 4th Avenue west of the main campus in Huntington, West Virginia. The project included the visual observation, removal, and backfill of soft soils

from the project site, requiring off-site borrow and placement/compaction of structural backfill.

Marshall University – Geotechnical engineering, construction observation, and field-testing services for the site grading and construction phases of the new Jack Cook Field baseball stadium at Marshall University. The selected site, north of 3rd Avenue in Huntington, West Virginia, was a former industrial complex that was remediated through the West Virginia Voluntary Remediation and Redevelopment Act (VRRA) program. Observation and documentation of the earthwork aspects of this project included the removal and placement of potentially impacted soil materials to prescribed areas of the site that were consistent with the VRRA Plan.

Completion of numerous subsurface exploration studies for active soil slope landslide failures associated with the development of natural gas production well pads and access roads. Work included the layout, surveying, and logging of subsurface borings to determine the depth and extent of the slope failures. Following the collection of soil/rock samples, materials were tested for characteristic and strength properties. Following testing efforts, the failed slopes were modeled using computer-based slope stability design models to determine a stable configuration, including the addition of rock buttresses, toe keys, underdrains, mid-slope keys, etc. Final stabilization plans were then prepared for the client, allowing bidding and selection of a repair and stabilization contractor to perform the work.

Stone Energy Pribble Tank - Work included the exploration and study of a failed soil/weathered rock slope, which was loaded through the placement of fill near the top of the slope to provide adequate area for the construction of 2- 2,400,000-gallon water storage tanks in New Martinsville, West Virginia. Shortly following the installation of the tanks, a large section of the hillside failed, leaving one of the tank foundations partially unsupported. Following the subsurface exploration and drilling work, a stabilization plan was developed, which included the removal of the failed soil mass (>50,000 CY), followed by the replacement of compacted soil material behind a large toe key and buttress. The repair also included surface diversion drainage ditches and numerous bond benches along the underlying rock line, which were fitted with underdrains to collect subsurface seepage.

NiSource/Columbia Gas Pipeline Group SM-80 Loop Gas Transmission Line – Development of a subsurface exploration and drilling plan to determine the extent and depth of soil and weathered rock slope failure, which threatened the performance and stability of a 30-inch high-pressure natural gas transmission line in Kanawha County, West Virginia. The slide location was remote and situated along a steep hillside. The stabilization plan recommended the use of soil nail technology due to the remote location and rather inaccessible nature of the location. This repair and stabilization technique allowed for the in-situ repair of the failed slope without extensive excavation and backfill, which was deemed difficult and would have required more land disturbance, resulting in additional slope stability concerns.

EQT Rockport #7244 Natural Gas Storage Well Pad -The Project involved the assessment and repair recommendations for a section of failed fill slope immediately below the existing and active natural gas storage well near the community of Rockport in Jackson County, West Virginia. The failed slope was caused by improper surface drainage control along the pad and access road. The stabilization plan included the excavation and removal of the failed slope following the "shut-in" of the storage well. The upper failure scarp was situated immediately adjacent to the wellhead, which was protected during the stabilization work. Following the installation of a rock toe buttress and keyway, the failed soil material was amended using lime to reduce the moisture content, which was required to achieve the recommended in-place density during placement and compaction. Following the regrading effort, the slope was trimmed and seeded, followed by the grading of several diversion and collection ditches to control runoff from the upper portion of the hillside below the well pad.

Columbia Gas Transmission Corporation – Design of stream relocation plans, including preparation and coordination of applicable environmental permits. The relocation was required due to an adjacent gas pipeline near the stream.

Columbia Gas Transmission Corporation – Preparation of several spill prevention, control, and countermeasure plans for gas storage well sites in Pennsylvania and West Virginia.

Civil Engineering

Civil/Site design included slope stability of both cut and fill slopes in soil and rock for various well production pads in northeastern West Virginia associated with natural gas production in the Marcellus well field. Work consisted of the management of a design engineering team, including ground survey crews, to develop site topographic base mapping, coordination with the client regarding land ownership, access roadway alignments, site drainage control, and the number/location of production wells. Additional work also included gathering and midstream transmission pipeline locations. The scope of services for these projects also included the preparation of permit documents and attachments for submittal to the WV Department of Environmental Protection- Office of Oil and Gas.

DAVID B. SHARP, P.E. Branch Manager/Senior Engineer



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 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, augercast 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

- 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 Tuppers 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 –

Potesta & Associates, Inc.

dsharp@potesta.com

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 Hankock 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

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

So all to whom these presents shall come, Greeting.

Know De That **Che Shile Mard 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 PORSUANCE OF AVAILORIANS VESTED IN ST by law, hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER:

Registration Rumber 14187 To Gold 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

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Frankt Heddy

Hoc Deckley Heade Aleman

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 the Charleston Municipal Planning Commission as a Development of Significant Impact and a 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.

South Charleston Development Authority – Project Manager for the engineering and site design 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.

- Topographic mapping, including aerial photography
- Geotechnical engineering for the characterization of fly ash material and natural soils and evaluation of consolidation of the fly ash 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.
- Drainage and roadway design.
- Construction phase services include assistance with contractor bidding of the project, evaluation of bids, and construction monitoring.

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 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, design, and regulatory approvals for infrastructure, including new street, 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 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. STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Goall to whom these presents shall come, Greeting.

Anow Pro That Un State Board of Brajestration 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 AUTHORIANS VESTED IN 15 by law, hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Rumber 10779 (To Gold) 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, day of March in the this 15th 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

Fronkt Jaddy Kenneth H. Means

Robert

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

AREAS OF SPECIALIZATION

Experienced in mining and civil engineering, surveying, and public works construction and administration. Expertise includes underground coal mining, urban engineering, construction, and administration across a wide range of projects, highway project engineering and construction, disaster recovery, as well as public and media relations. Skilled in collaborating with state and federal agencies, legislators, and congressional representatives.

PROFESSIONAL EXPERIENCE

<u>Roadway Engineering</u>

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 – 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
- Implemented an inspection QA/QC program that FHWA recommends to other DOT Bridge Programs.
- Asset Management Section
- WVDOH Pavement Management System
- Transportation Asset Management Plan
- Resource Management Section
- Operations Section: Buildings and Grounds Program, Core Maintenance Program, Disaster Recovery Coordination (FEMA and FHWA-ER), Oil and Gas Policy and Bond Agreements.
- WVDOH Oil and Gas Policy
- 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.

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 the 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.

Civil Engineering

City of Charleston, West Virginia – Served as the City Engineer with the following tasks:

- Managed office of 5 8 staff, including 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 operating. At construction in 1993, this was the largest public works project in the city's history, at an initial construction cost of approximately 17 million dollars.

Stormwater Management

West Virginia Division of Highways – Design and preparation of contract plans and supporting documents for the construction of a stormwater collection and drainage system that encompasses over 223 acres, with the entire drainage area comprised of approximately 509 acres in the Community of Rand, West Virginia:

- Design of approximately 3,600 feet of new and replacement storm sewer.
- Five new stormwater discharge outfalls to the Kanawha River with concrete headwalls, armored channels, and riverbank protection.
- Design approximately 2,500 feet of replacement sanitary sewer line (including approximately 12 new manholes incidental to the construction of storm sewers.
- NEPA compliance evaluations.

<u>Water Lines, Water Storage Tanks, and Water</u> <u>Treatment Plants</u>

West Virginia Division of Highways – Engineering design and preparation of drawings for a potable water line extension to serve the reconstructed northbound and southbound rest areas near Mile Marker 48 of Interstate 79 (I-79) in Braxton County, West Virginia. The water line will also extend services to approximately 17 new and existing customers.

<u>Mining</u>

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

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.

ARMCO, Inc. – Maintained several positions and completed several projects over three years:

- 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

Coall to whom these presents shall come, Greeting. Anow De That the Shite Board of Begistration for Protessional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence Integrity and Discretion of

Willie K. Stollings

Does, IN PORSUANCE OF ACTHORITY VESTED IN IT by law; hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Rumber 11034 To Gold and use such title in the practice of his profession, subject to the conditions prescribed by law.

Secretary

Kenneth H. Means



AFTLE

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

Frankt Faddy President.

Robert



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

<u>Stormwater Management</u>

Town of Addison – Project Manager for the upgrade, repair, and extension of the existing failing stormwater collection system in Webster Springs, West Virginia. The project consists of 12,320 feet of 30-inch, 24-inch, and 12-inch storm sewer pipes with 90 drop inlets on multiple streets in the Town.

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

Chief Engineer

Glenville Utility Board – Project Manager for the design improvements to separate the stormwater system from the sanitary wastewater system to better manage street flooding and reduce infiltration and inflow in the sanitary system in Glenville, West Virginia. The stormwater line separation project involves the installation of approximately 1,600 linear feet of 30-, 24-, and 18-inch stormwater lines and 17 drop inlets.

Huntington Sanitary Board – Project Engineer for the separation of portions of the local storm sewers from the combined sanitary sewer and installation of detention and infiltration structures to attenuate runoff of the pump to the Ohio River in Huntington, West Virginia. Design of two stormwater detention tanks, two pump stations, approximately 4,800 linear feet of new storm lines, and 3,200 linear feet of 24-inch force main.

<u>Water Lines, Water Storage Tanks, and Water</u> <u>Treatment Plants</u>

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, and 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 WVAW 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, 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 WVAW'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 Outfall Backflow Prevention Project to reduce the combined sewer overflow events at 22 outfalls and reduce river water inflow from the Four Pole, Guyandotte, and Ohio Rivers during moderate to high river levels in Cabell County, West Virginia. Design of modifications for each outfall, including placing inline check valves at outfalls and relining the existing pipe to prevent potential intrusion behind the new valves. 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 and Operation:

- Wastewater Treatment Plant
- Combined Sewer
- Force Mains
- Pump Stations
- Asset Management
- Fly Ash Lagoon Remediation
- Mixing Zone Study/Permitting
- Capital Improvement Projects

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.

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.

City of Philippi – Wastewater Project including a new Oxidation Ditch Plant, renovation of an existing pump station, sewer main replacement design, and construction in Philippi, West Virginia.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

If to whom these presents shall come Greeting. "Anow De 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 AVAILOBIAN VESTED IN 131 by law, hereby certify that he having submitted satisfactory evidence of his ability and experience, is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 10615

(Io Gold) 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 2.1 st day of Sebuary 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

Mond A. Sicher

Scoretary Frank Goddy President. Kenneth H. Means Rohuffeld H Robert Catt

JESSICA L. YEAGER Senior Scientist



EDUCATION

- M.S. Biology (Emphasis on Aquatic Ecology and Toxicology Virginia Polytechnic Institute and State University
- B.S. Biology/Chemistry Fairmont State College

EMPLOYMENT HISTORY

2000-Present	Potesta & Associates, Inc.
1998-2000	Biological Monitoring, Inc.
1995-1998	Virginia Tech
1994-1995	Center for Environmental and
	Hazardous Materials Studies

PROFESSIONAL CERTIFICATIONS

- Certified Hydric Soil Investigator
- Certified Wetland Botanist
- Certified Wetland Delineator
- Certified Wetland Hydrologist
- State of West Virginia Office of Miners' Health, Safety & Training Class 32 Safety Sensitive Personnel

TRAINING/RELEVANT COURSE WORK

 River Morphology and Applications, Wildland Hydrology

- Applied Fluvial Geomorphology, Wildland Hydrology
- Methods for Stream Assessment and Analysis, WVU
- Introduction to Natural Stream Channel Design, WVU
- Advanced Stream Design, WVU
- Fluvial Geomorphology, WVU
- Developing Wetland Water Budgets, Swamp School

PROFESSIONAL AFFILIATIONS

- Society of Freshwater Scientist
- Society of Environmental Toxicology and Chemistry
- National Association of Wetland Managers

AREAS OF SPECIALIZATION

Clean Water Act (CWA) permitting, compliance, and enforcement including water pollution control permitting and regulatory compliance, stream and wetland delineation, United States Army Corp of Engineering permitting (including mitigation), state water quality standards reporting, underground injection permits, and State water quality certification for coal and non-coal projects, threatened and endangered species compliance, cultural and historic resource coordination, development of large scale environmental risk assessments, environmental assessments, biological assessments, environmental impact studies and other National Environmental Policy Act (NEPA) documents (noise, cumulative impacts, aesthetics), development of biological studies, toxicity evaluations, and preparation of environmental documents for non-environmental regulatory agencies, including the Public Service Commission.

PROFESSIONAL EXPERIENCE

Stream/Wetland Delineation, Permitting, and Mitigation

Responsible for managing large-scale Clean Water Act Projects associated with Marcellus Shale Production (well sites, well lines, and gathering lines) including field crew scheduling and coordination, stream/wetland delineation reporting, agency consultation, coordination of archaeological and bat/mussel surveys, and USACE 404 permitting. Responsible for managing pipeline projects where the role was an environmental review or providing environmental permitting. Play a role in agency interactions and litigation support.

Served as project manager and senior scientist for multiple CWA permitting tasks covering Section 401, 402, and 404 compliances as well as Office of Land and Streams authorizations, floodplain coordination and permitting with modeling, and hydrostatic testing.

Prepared permit packages for stream and wetland impacts for United States Army Corps of Engineers individual and general Department of the Army authorizations, State (401) Water Quality Certification, and Public Lands Corporations.

Supervised and assisted in the preparation of mitigation plans and associated restoration plans, as well as environmental information documents for large-scale surface disturbances.

Prepared large adaptive management plans that are compliant with Department of the Interior (DOI) recommendations.

Supervised and prepared projects that determine stream status (perennial, intermittent, or ephemeral) utilizing benthic and stream channel indicators (wetland and stream delineations) in West Virginia, Kentucky, Virginia, and Maryland. Projects have included the determination of jurisdictional streams and wetlands in atypical field conditions, as well as after-the-fact stream/wetland impacts utilizing site-specific data as well as interpretation of historical data using ArcGIS.

Acted as an agent for applicants during negotiations with agency personnel. Typically, issues addressed are associated with impact determination and NEPA compliance (cultural resources, threatened and endangered species, land use, cumulative impacts, and aesthetics.)

Familiar with most Federal protocols utilized for the assessment of impacts to "waters of the U.S." Prepared the banking documents (prospectus, banking instrument, etc.) for the first mitigation banking program for stream and wetland credits in West Virginia.

Supervise, evaluate, and report mitigation success using applicable performance standards for CWA Section 404 permitting.

NPDES Industrial/Municipal Permitting

Worked as part of a permitting team that prepared new, modified, and renewed (reissued) National Permit Discharge Elimination System (NPDES) permits for various clients in the energy and commercial sectors. Specific areas include water monitoring and narrative criteria applications, toxicity (standard bioassays, as well toxic identification studies), aquatic ecosystem protection, biological studies, watershed hydrology, water quality, groundwater and surface water inventories, long-term flow studies, site-specific water quality criteria and or variances, mixing zones, database management, and adaptive management plans.

Responsible for managing and/or preparing State and Regulatory Permits/Renewals/Modifications, Federal including Section 7 Threatened and Endangered Species USFWS and WVDNR Consultation, Section 106 State Historic Preservation Office Consultation, United States Army Corps of Engineers 404 Permits, West Virginia Division of Natural Resources - Office of Land and Streams Stream Activity Permits, and Individual State 401 Water Quality Certification. Work includes permitting and supporting documentation for waste load allocation, Industrial NPDES Permit Applications/Permit Renewals, General WV/NPDES Storm Water Permit Applications/Permit Renewals, sampling plans, Groundwater Protection Plans (GPP), Storm Water Pollution Prevention Plans (SW3P), and Municipal Separate Storm Sewer System (MS4) General Permits.

Surface Water Sampling

Supervised multiple water quality monitoring programs. Projects have included oversight and management of sampling teams for pre-construction baseline, routine, and special study water quality monitoring projects including non-traditional monitoring techniques such as sediment respiration. Many of the projects have included a database management and compliance component.

<u>Mining</u>

Worked as part of a permitting team (for various clients) that prepared new mining permits, as well as modification and renewals. Specific areas include land use, parks and historic lands information, fish and wildlife information including threatened/endangered species, water quality data, drainage information, NPDES permits, and narrative criteria applications.

Completed studies to address notice of violation (NOV) orders for accidental discharges into waters by mining companies including assessments of fish kills and the extent of black-water discharges as well as routine noncompliance issues. Act as a representative for the company in board hearings to address violations.

<u>Risk Assessment</u>

Completed large-scale risk assessment in watersheds in Kentucky, West Virginia, and Virginia associated with impacts to waters. Assessments included the use of benthic biological monitoring (fish and macroinvertebrates (including mussels)), acute and chronic toxicity testing, sediment toxicity testing, juvenile mussel toxicity testing, entrainment studies, water quality monitoring, water quality modeling, specialized sediment sampling which included both physical and chemical characterizations. These projects have required largescale data integration and database management with an ArcGIS component.

Threatened/Endangered Species

Completed biological assessments for mussel species in the Kanawha and Gauley Rivers, as well as a document similar to a biological assessment for the Big Sandy River watershed. Completed biological assessments for bat species in West Virginia for various clients. Prepared appropriate documentation for Section 7 consultations with the United States Fish and Wildlife Service for various regulated entities.

Environmental Assessments/Impact Statements

Preparation and submittal of environmental information documents submitted to regulatory agencies for the development of the agency's environmental assessments. Topics addressed included: fish and wildlife resources; surface and groundwater, endangered species, noise, viewshed and aesthetics. traffic. floodplains, conservation, flooding, navigation, recreation, safety, environmental justice, socioeconomics, and other general environmental concerns. Development of alternative analyses including a federal highways project that required a supplemental EIS; several large-scale mining operations whose alternatives included various mining methodologies (underground mining, high wall mining, etc.) as well as post-mining land uses. Prepared and submitted environmental assessments for federal regulatory agencies as a third-party contractor. Prepared, reviewed, and commented on Draft Environmental Impact Statements for various federal agencies as a third-party contractor. Completed assessments for federal agencies to determine the need for supplemental environmental documents.

Regulatory and Litigation Support

Provided testimony as both a factual witness and expert witness in federal court and before the West Virginia Environmental Quality Board. Testimony included site conditions, evaluation of reasonable potential, water quality issues, mitigation, stream structure, and function. Negotiated with state and federal agencies regarding fines for non-compliance. This includes completing large-scale after-the-fact delineations and associated reporting for Section 308 and 309 Orders, negotiating mitigation, and evaluating and assessing NPDES compliance issues. Compliance issues include discharge monitoring reports, non-compliance notices, toxicity, and narrative guidance concerns.

Additional litigation work has included work performed for meeting specialized permitting requirements, like those for the Public Service Commission. This work has included testimony regarding studies for wind energy development and its impact on birds and threatened and endangered species.

Work for energy development has included applications for the Public Service Commission, completed for clients with the assistance of an attorney. Studies and documents have included: noise studies, landscape scale land use analysis, viewshed analysis, surface and groundwater studies, species consultations, delineations, coordination of contractors for consultations, and packaging of the applications.

Biological Studies and Sampling

Responsible for managing and reporting biological surveys using State and federal protocols for permitting and compliance. Responsible for the development, managing, and reporting of special studies including functional assessment studies, algal studies, vegetative studies, wetland macroinvertebrate studies, avian studies, bat studies, benthic macroinvertebrate studies, mussel surveys, fish surveys, and specialized trout surveys. Responsible for managing and reporting biological toxicity evaluations using standard testing species, as well as specialized studies like those completed using juvenile mussels and larval fish for selenium deformities.

Completed an evaluation of the physical, chemical, and biological effects of acid mine drainage from abandoned mine lands in Virginia. Work included bioassays, biological monitoring, chemical monitoring, physical habitat evaluations, and functional assessments of the biological communities including algal community structure. Prepared documents for the use of acid mine drainage remediation for mitigation purposes.

<u>Benthic</u>

Completed benthic sampling for 28+ years. Capable of identifying most benthic macroinvertebrates at the genus level. Completed aquatic entomology coursework under Dr. R. Voschell at Virginia Tech.