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WV PURCHASING
DIVISION

Expression of Interest
West Virginia – Army National Guard
Camp Dawson Airfield Support Facilities
Kingwood, WV
CEOI ADJ2000000007
April 15, 2020



Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

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I would like to personally thank you for affording Miller Engineering the opportunity to propose on the Camp Dawson Airfield Support Facilities project and we look forward to the chance to discuss the project in an interview.

Best Regards and Good Luck on the Project,

A handwritten signature in blue ink, appearing to read 'Craig Miller', written in a cursive style.

Craig Miller, PE
President/Owner
Miller Engineering, Inc.

The Miller Engineering Difference



We are very pleased to submit our response for the Camp Dawson Airfield Support Facilities project. We have elected to submit as prime consultant as our understanding from the Expression of Interest is that HVAC renovations are major aspect to both Buildings 401 & 406. MEI has operated in this role many times before, including on the recent Camp Dawson FMS 4 Fire Protection Project. While MEI's project portfolio includes many building systems, HVAC renovations constitute the majority of our work. As a licensed private pilot, I understand the needs of airport facilities from an operational standpoint, including FAA regulations and requirements.

We're not your typical MEP firm; we ensure our designs meet very specific, time-tested criteria, including but not limited to being constructible, operable and maintainable. We want to set up our clients to be self-sufficient, but we work to be available every step of the way. Most every project we do has a particular set of standards which we must apply, and this is no exception. We see our diversity of previous work as an advantage as we do not use "cookie cutter" design or presume we have all the answers when we start.

Our hands-on staff takes great pride in their construction and operations backgrounds, which help us visualize the project as it would be built instead of just lines on paper. We don't sit clients down and lecture to them about what they're going to get; we listen to them so we can strive to deliver exactly what they want and need. It costs too much time and money (for both our clients and us) to not deliver exceptional service every single time, and we work tirelessly to keep projects on time and on budget. We're proud to say that our change order percentage over the last 8 years is less than 0.1%, and that's not just a statistic; it's a proclamation of our commitment and determination to make sure things are done right the first time, every time.

Miller Engineering has completed several successful projects for the State of West Virginia in recent years. We have recently successfully delivered HVAC renovations in WV State Buildings 22 and 25. We have also performed HVAC renovations in several K-12 schools in Monongalia County. We are currently the MEP consultant on the Capital Complex Chiller Plant project, which will implement significant cost redundancy and decreased operating cost enhancements. Such projects involve detailed sequencing as work had to be performed in a manner to not disrupt student activities. As HVAC is only part of the proposed project, we have brought Montum Architecture and EartRes for architectural and structural design. Potesta will provide civil services related to the location and modification to underground utilities if required. The proposed team have successfully delivered many projects together which is a testament to the level of communication and cooperation between team members in addition to an understanding of how design decisions affect other trades.

We encourage you to contact any of our references to gauge our level of commitment, not only through design but continuing through construction administration, and beyond the warranty period.



B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the “Relationship

Manager” for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Project Role: Relationship Manager – Primary Point of Contact

- *Engineer in Responsible Charge*
- *Design and Project Management of Mechanical, Electrical, Plumbing Projects*
- *Concept and Construction Design*
- *Business Operations and Financial Management Oversight*
- *Quality Assurance and Control*

Professional Project Highlights

- Morgantown High School Area 4 HVAC Renovations
- WVU Life Sciences Building and Student Recreation Center – Owner’s Engineer
- Hawks Nest/Twin Falls HVAC
- Mapletown High School HVAC Replacement Phase I & II
- Advanced Surgical Hospital
- Pipestem McKeever Lodge HVAC Piping Replacement
- Beech Fork State Park – MEP New Construction Design
- Cheat Lake Elementary & Middle School Renovations

Professional History

2003- Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Staff Engineer
2001-2002	Uniontown Hospital	Supervisor of Engineering
1995-2001	West Virginia University	Staff Engineer
1990-1995	BOPARC	Caretaker – Krepps Park
1983-1988	University of Charleston	Electrician/HVAC Mechanic

Education

1995	West Virginia University	BS- Mechanical Engineering
1988	University of Charleston	BA- Mass Communications

Licenses and Certifications

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified



Firm Profile

MILLER ENGINEERING is a solely held (S) corporation owned by Craig Miller PE, President. The corporation maintains a Certificate of Authority with the WV State PE Board and has carried professional liability insurance since its inception. Neither the firm nor its professional engineers have ever faced disciplinary action in any form from the states in which they are registered.

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.



*Over the past 17 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$23.2M in MEP system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments. With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, **MEI has accumulated a change order percentage of less than 0.1% over the past 8 years.***

Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

*Miller Engineering takes pride in being **different by design**, and that difference shines through in all phases of our work and continued relationships with our clients.*

- Experienced and Licensed Professional Engineers
- Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
 - Below Industry Change Order Status
 - Building Information Modeling
 - Emergency Facility Response



Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction
- Building Information Modeling

Aquatic Facility Design

- Public Pools & Areas
- ADA Compliance
- Indoor & Outdoor (air flow)
- Chlorination/Filtration

Construction Administrator

- Maintenance/Facility Improvement Plans
- Contract Administrator
- Code Observation

Communication System

- Intercomm & Public Address
- Voice/Data/CATV
- Urgent Response

Energy

- Power Supply (main & backup)
- Green & Renewable Consulting
- Systems Utilization & Upgrades
- Sustainable Solutions

Facility Utilization

- Systems Assessment & Solutions
- Adaptive Re-use
- Planning/Life-Cycle Control
- Engineered Replacement

Life Safety Inspection/Design

- Fire Protection & Alarm Systems
- Access Control
- Fire & Electrical Investigation

Industry Experience

- Education
- Local & State Government
- Commercial Development
- Healthcare



TAB 1 –FIRM QUALIFICATIONS





Travis Taylor, PE

Experience in project management facilitates Travis's ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes. These include local ASHRAE classes in addition to classes on electrical systems, and also steam systems through Shippenburg Pump Company. As lead engineer he provides HVAC, mechanical, plumbing, and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

Project Role: Lead MEP Engineer

- *Design of Mechanical, Electrical, and Plumbing Systems*
- *Building Information Modeling - Revit*
- *Constructible Materials Evaluation*
- *Site Evaluation and Mechanical System Review*
- *Submittal and RFP Review*
- *RFI Coordination, Review, and Response*
- *Construction Observation*

Professional Project Highlights

- Blackwater Falls Lodge Boiler Replacement
- MTEC Welding Shop
- Camp Dawson FMS4 Fire Protection
- WV State Building 22 2nd Floor Renovations
- WV State Building 25 HVAC Piping Replacement
- Morgantown High School Area 4 HVAC Renovation
- Bobtown Elementary School HVAC Upgrades
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement

Professional History

2011-Present	Miller Engineering, Inc.	Staff Engineer
2006-2011	Tri-County Electric, Co.	Project Manager
2006-2006	Schlumberger	Field Engineer Trainee - MWD

Education

2006 West Virginia University, BS – Mechanical Engineering

Licenses and Certifications

- Professional Engineer - State of West Virginia
- OSHA 10-hour Course: Construction Safety & Health



Joseph Machnik

Joe has experience with AutoCAD, MEP and Revit MEP. He provides design modeling, drafting and supervised design services and construction support for Miller Engineering.

Project Role: MEP Designer

- *Revit/CADD Coordination of New Construction and Renovation Designs*
- *Building Information Modeling Specialist*

Professional Project Highlights

- Bobtown Elementary HVAC
- WV State Building 25 HVAC Piping Replacement
- Blackwater Falls Boiler Replacement
- Suncrest Middle Gym HVAC
- North Elementary Gym HVAC
- Graftek Steam Systems Evaluations and Modifications
- WV State Building 25 HVAC Piping
- Pipestem Lodge HVAC Piping Replacement
- Westwood Middle Cooling Tower

Professional History

2010 – Present Miller Engineering, Inc. MEP Designer

Education

2008 Penn State – Fayette, AS - Building Engineering Systems Technology: *Building Environmental Systems Technology*

2007 Penn State – Fayette, AS - Building Engineering Systems Technology: *Architectural Engineering Technology*

Additional Training

2016 – Shippenburg Pump Company – Steam Systems Training



Eyad Alhalabi

Eyad joined Miller Engineering in June 2019. A recent graduate of West Virginia University, he has been eager to learn the means and methods of MEP consulting. Eyad assists the MEP design team with design calculations and is rapidly learning design software such as Autodesk REVIT. He is also learning construction administrations along with building codes and standards. Eyad is currently preparing to take the Fundamentals of Engineering exam.

Project Role: Junior Engineer

- *Design Calculations*
- *Drafting of MEP Systems*
- *Assist with Construction Administration*

Professional Project Highlights

- Morgantown ALC
- WVDA Ripley Warehouse Electrical Upgrades
- Huntington 8th & 10th Street Pump Stations
- Huntington Floodwall Pump Station Automation

Professional History

2019- Present Miller Engineering, Inc. Junior Engineer

Education

2019 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

- ASHRAE Student Member



Montum Architecture

Montum Architecture, LLC was founded in 2017 to provide architectural design services to clients in West Virginia and western Maryland. Staff includes one licensed architect performing all tasks and duties. This ensures the utmost coordination of building plans and specifications with minimal potential for miscommunication.

Legal Organization

Montum Architecture is a Limited Liability Corporation initially filed in the State of West Virginia. The company is also registered in the State of Maryland as a foreign LCC.

Communication

Tom Pritts will be the primary point of contact for Montum's architectural services. Montum will manage communications with sub-consultants on this project.

Project Budget

Previous work experience has shown a consistent +/-2% bid-to-budget ratio.

Project Schedule

Montum will monitor and adjust the design tasks in order to complete the design work on the established timetables. They will also work diligently during project construction to maintain the contractual constraints placed as part of the contractor's bid.

Design Software

Montum utilizes Autodesk Revit for all design projects incorporating three-dimensional modeling and parametric reporting.



Thomas Pritts, AIA, LEED-AP, CSI-CCS

Tom founded Montum Architecture in 2017. He has more than 15 years experience in design, specification, and project management. During his former employment, Tom has designed and managed dozens of built projects. His experience encompasses a wide range of projects including K-12 and higher education facilities, financial Institutions, emergency services buildings, and automotive dealerships. A native of Mineral County, Tom is member of the West Virginia Chapter of American Institute of Architects and was involved in the establishment of the US Green Building Council’s West Virginia chapter. He is highly skilled in the design of complex building systems, technical construction detailing and specifying, and construction contract administration. These skills were critical in the development and maintaining of many multi-year, multi-project relationships with Clients in his previous employment.

Project Role: Relationship Manager – Primary Point of Contact

- Principal in Charge
- Design and Project Management
- Concept and Construction Design
- Quality Assurance and Control

Professional History

2017- Present	Montum Architecture	Architect
2004-2017	Alpha Associates	Associate and Architect
2003	Marshall Craft Associates	Architectural Intern

Education

2004	Virginia Tech	Bachelors of Architecture
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Licenses and Certifications

- Licensed Architect (West Virginia, Maryland)
- NCARB Certificate
- Construction Specifier Institute – Certified Construction Specifier
- LEED-AP Certified
- Part 107 Remote Pilot
- 30-hour OSHA Card

Associations and Memberships

- American Institute of Architects
- Mineral County Chamber of Commerce – 1st Vice President

Professional Project Highlights

- Potomac State College – Bachelor of Nursing Renovation
- Wyoming East High School HVAC Renovation – Wyoming County Schools, WV
- Mountainview and MTEC HVAC Renovation – Monongalia County Schools, WV
- Berkeley Springs State Park – Pool Bathhouse Roof Replacement
- Berkeley Springs State Park – Old Roman Bath Renovation
- Blackwater Falls State Park – Boiler Room Renovation
- Our Lady of the Mountains Parish – Bathroom Renovation
- Mountain View Assembly of God – Rec Hall Ceiling Design

Professional Project Highlights (former employment built projects)

Montum



Architecture

- Potomac State College – ADA Connector Building, Church-McKee Plaza, Shipper Library Façade
- WVU Engineering Sciences Building – East Wing Addition, 10th Floor Fit-Out, Basement Renovation
- WVU Engineering Research Building – G07 & G08 Renovation
- WVU Equine Education Center
- WVU College of Physical Activities and Sports Sciences/ Student Health Center
- WVU Center for Alternative Fuel Engines and Emissions
- WVU Colson Hall Water Infiltration Repairs
- WVU Mountainlair Water Infiltration Repairs
- WVU Chemistry Research Laboratories Fit-Out
- WVU Creative Arts Center Wheelchair Lift
- Alderson Broaddus University – Pyles Arena Deck Replacement
- Glenville State College – Morris Stadium Skybox
- Washington High School, Jefferson County Schools, WV
- Pineville Elementary School, Wyoming County Schools, WV
- Huff Consolidated School, Wyoming County Schools, WV
- Aurora School Addition, Preston County Schools, WV
- Riverview High Field House Design-Build, McDowell County Schools, WV
- Safe School Entries, Monongalia County Schools, WV
- Morgantown High Elevator, Monongalia County Schools, WV
- 2010 Comprehensive Education Facilities Plan- Monongalia County Schools, Wyoming County Schools
- Clear Mountain Bank Branches, Oakland, MD - Reedsville, WV - Kroger-Sabraton, WV
- Grant County Bank, Petersburg, WV
- Fairmont Federal Credit Union, Bridgeport, WV
- Freedom Ford, Kia, and Volkswagen Automotive Dealerships, Morgantown and Clarksburg, WV
- Jenkins Subaru Addition, Bridgeport, WV
- Elkins Fordland Renovation - Elkins Chrysler Dealership, Elkins, WV
- Harry Green Nissan Design-Build, Clarksburg, WV
- Cool Green Automotive Addition and Renovation, Shepherdstown, WV
- Veteran's Affairs – OI&T Office Fit-Out, Shepherdstown, WV
- OPM, Eastern Management Development Center Addition, Shepherdstown, WV
- National Energy Technology Laboratory – Building B-8 Roof Replacement, Morgantown, WV
- US Coast Guard – Conference Room Renovation, Martinsburg, WV
- Eastern Panhandle Transit Authority Addition, Martinsburg, WV
- Cacapon State Park – Old Inn HVAC and Interior Renovation
- WV National Guard - Armory Office Fit-out, Parkersburg, WV
- South Berkeley Fire Station, Inwood, WV
- Jefferson County Emergency Services Agency – New Headquarters
- Berkeley County Ambulance Authority – South Station Renovation and Addition
- Poolhouse Renovation, McMechen, WV
- Community Center, Ridgeley, WV
- Wastewater Treatment Plant Renovations, Martinsburg, WV
- Public Works Building, Fairmont, WV
- Oatesdale Park Little League Fields, Martinsburg, WV
- St. Luke Canopy Replacement, Morgantown, WV
- Freshwater Institute – Aquaculture Building, Shepherdstown, WV
- Clarion Hotel Renovation, Shepherdstown, WV
- Shenandoah Village Apartments – Façade and Deck Replacement, Martinsburg, WV
- Regional Eye Associates/ Surgical Eye Center, Morgantown, WV
- Bavarian Inn – Infinity Pool/ Pool Bar, Shepherdstown, WV

CORPORATE PROFILE

***Providing Innovative, Timely, Cost-Effective
Engineering and Environmental Solutions***



Engineering • Mining • Remediation • Oil & Natural Gas • Environmental



Offices in:

CHARLESTON

7012 MacCorkle Avenue, SE
Charleston, WV 25304
(304) 342-1400

MORGANTOWN

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

WINCHESTER

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

Company Overview

FIRM HISTORY

Potesta & Associates, Inc. (POTESTA) was founded in 1997 as a full service engineering and environmental consulting firm headquartered in Charleston, West Virginia. We have now expanded to a diverse staff of 79 experienced engineers, scientists, and support personnel with branch offices in Morgantown, West Virginia, and Winchester, Virginia. Our clients include mining, manufacturing and chemical companies; utility companies; waste management companies; colleges/universities; land developers; attorneys; financial institutions; insurance companies; local, state and federal agencies; construction companies and architects.

SERVICES

- Air
- Asbestos Inspection
- Biological and Toxicological
- Civil Engineering and Site Design
- Coal Supply and Procurement
- CADD
- Construction Monitoring
- Environmental Emergency Response
- Environmental Site Assessment
- Geographic Information Systems
- Geotechnical Engineering
- Groundwater
- Hydrology and Hydraulics
- Landfills and Solid Waste
- Litigation Support
- Marcellus Shale Natural Gas
- Mining
- Mixing Zone Analysis
- Occupational Safety and Health
- Oil and Natural Gas
- Permitting
- Remedial
- Roadway Engineering
- Stream Restoration
- Storage Tanks
- Surveying and Mapping
- Water Quality Studies
- Water and Wastewater
- Wetlands



Experienced Professionals



Ronald R.
Potesta
President

POTESTA's staff is committed to delivering innovative, cost-effective solutions to meet our client's complex requirements. The firm's environmental department consists of biologists, geologists, chemists, environmental scientists and environmental engineers, many with advanced degrees (Masters and Ph.D. level). POTESTA's engineering department includes civil, geotechnical, environmental, mining and mechanical engineers. Our registered professional engineers have over 300 years experience among them and are supported by a capable team of engineers, designers, and surveyors.



Dana L. Burns
Vice
President

Our firm is managed by two principals driving POTESTA forward with their experience and emphasis on exceeding expectations. Ronald R. Potesta, President, is a former Director of the West Virginia Division of Natural Resources and Dana L. Burns, P.E., Vice President of Engineering, has more than 39 years experience with civil, geotechnical, mining, and environmental engineering projects.

FIRM HIGHLIGHTS:

Established in 1997

Experienced Staff of 79

Corporate Office in
Charleston, WV

Regional Offices in
Morgantown, WV
Winchester, VA

Primarily Serve Clients
East of the
Mississippi River

Carry a Full Line of
Insurance Coverage

Stringent Internal
Quality Control System

Additional information on our services and capabilities can be found on our corporate website: www.potesta.com.



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, Virginia

PROFESSIONAL CERTIFICATIONS

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

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, auger-cast piles, drilled piers, spread footings, and mat foundations:

- MedExpress Administrative Office – Morgantown, WV
- Chemours Fire Station – Washington, WV
- Camp Dawson Two New Buildings – Kingwood, WV
- Dental Spa – Morgantown, WV
- Marshall University Baseball Stadium – Huntington, WV
- Citizen's Bank – Buckhannon, WV
- Miners & Merchants Bank – Davis, WV
- Davis & Elkins College Myles Center Addition – Elkins, WV
- Buzz Foods Addition – Charleston, WV
- Solvay Wastewater Treatment Plant Clarifier – Marietta, OH
- Black Oak Office Building – Morgantown, WV
- Davis & Elkins College Harper McNeeley Waterproofing – Elkins, WV
- Family Dollar Store – Berkeley Springs, WV
- Rubbermaid Distribution Center Addition – Winchester, VA
- WVU Transportation Center/Parking Garage – Morgantown, WV
- 4 West Water Treatment Plant – Greene County, PA
- CA Ventures (9 story student housing building) – Morgantown, WV
- Copper Beech Student Housing (included 31 buildings, parking areas, and 11,250 linear feet of retaining walls) – Morgantown, WV
- Sunnyside Commons Student Housing (included three multi-story buildings, parking, and 43,000 sq. ft. of retaining walls) – Morgantown, WV

- WVU Engineering Building East Addition – Morgantown, WV
- Potomac State College Admissions Building Addition – Mineral County, WV
- Glenville State College Health & Sciences Building – Gilmer County, WV
- Glenville State College Residence Hall – Gilmer County, WV
- Christy Street Office Building – Morgantown, WV
- Harry Green Nissan Dealership Building Addition – 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 Building Addition – Monongalia County, WV
- Churchill Village Housing Project – Monongalia County, WV
- R.E. Michel HVAC Commercial Building – 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 (includes 16 buildings, parking areas, and 50,000 sq. ft. of retaining walls) – Morgantown, WV
- Fairmont Federal Credit Union – Bridgeport, WV
- Morgantown Waterfront Marina – Morgantown, WV
- Residence Inn – Morgantown, WV
- Suncrest Executive Office Plaza and Parking and Garage – Morgantown, WV
- WVU Research Park – Morgantown, WV
- View at the Park Apartment Complex – Morgantown, WV
- Marriott Hotel – Morgantown, WV
- Bucks Tavern – Morgantown, WV
- Stouts Run United Methodist Church Addition – 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
- Student Housing Facility, Parking Garage, Library/Information Center, Student Center Addition, Jomie Jazz Center, and Child Care Center for Marshall University – Huntington, WV
- U.S. Equipment Distributors – Huntington, WV
- PC WV #2 and #3 – Pace Carbon Fuels – Summersville and Eckman, WV
- WVU Luxury Box for Mountaineer Field – Morgantown, WV
- Marshall University Mid-Ohio Valley Center – Point Pleasant, WV
- Arbor Terrace Assisted Living Facility – Charleston and Huntington, WV
- Pocahontas County PSD Wastewater Treatment Plant – Snowshoe, WV
- Pt. Marion Water Tank Replacement – Pt. Marion, PA
- Monongalia General Hospital and Access Road – Morgantown, WV
- Kasson Elementary/Middle School Repair Project – Kasson, WV
- North Marion Vocational/Technical Center School Repair Projects – Marion County, WV
- Monongalia County Public Office Building – Morgantown, WV
- Numerous Cell Phone Towers in WV, PA, and MD
- Numerous Natural Gas Compressor Stations Pads and Additions:
 - EQT – Logansport Compressor Station Addition – Wetzel County, WV
 - EQT – Plasma Compressor Station Pad – Monroe County, OH
 - EQT – Corona Compressor Station Pad – Wetzel County, WV
 - EQT – Gemini Compressor Station – Geotechnical Feasibility – Marion County, WV
 - EQT – Gemini Interconnect Pad – Marion County, WV
 - Basic Systems, Inc. – Waynesburg Compressor Station Addition – Greene County, PA
 - Basic Systems, Inc. – Gettysburg Compressor Station Addition – Adams County, PA
 - Basic Systems, Inc. – Greencastle Compressor Station Addition – Franklin County, PA
 - Basic Systems, Inc. – Files Creek Compressor Station Addition – Randolph County, WV
 - Basic Systems, Inc. – Smithfield Compressor Station Addition – Wetzel County, WV
 - Dominion Transmission – Crayne Compressor Station – Green County, PA
- Numerous Marcellus Well Pad Sites – Northern 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 – Barbour County, WV
- Chesapeake Energy – Rayle Coal Co. Well Pad – Ohio County, WV
- Numerous Residential Geotechnical Projects – Charleston and Morgantown, WV
- Geotechnical Recommendations for Natural Gas Transmission Lines including Horizontal Directional Drilling Projects:
 - EQT Midstream – H-310 Coal Refuse Area – Monroe County, OH
 - EQT Midstream – Harrison County HDD – Harrison County, WV
 - EQT Midstream – 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:

- Kinetic Park Landslide Repair – Huntington, WV
- Morgantown Parking Authority Armory Lot Retaining Wall – Morgantown, WV
- Bowser Street Landslide Repair – Town of Granville – 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 Tappers Creek Emergency Landslide – Tappers Creek, WV
- Schmidt Landslide – Gallipolis, OH
- Disposal Service, Inc. Landslide – Hurricane, WV
- Wellston High School 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
- County Route 24 Bridge Replacement – Jackson County, WV
- County Route 3 Temporary Bridge – Jackson County, WV

- County Route 56 Temporary Bridge – Wetzel County, WV
- County Route 28 Bridge Replacement – Ritchie County, WV
- County Route 3 Temporary Bridge – Roane County, WV

Expert Witness

Served as Expert Witness in numerous 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.

- Solem v. Highlands of the Potomac, LLC – Shuman McCuskey Slice, PLLC – Circuit Court Berkeley Co. – Civil Action 18-C-408 – Flooding (Defense)
- Liston v. Frontier West Virginia, Inc. – Bowles Rice – Circuit Court Monongalia Co. – Civil Action 16-C-279 – Flooding (Defense)
- Pauley v. Schumacher Homes of WV, Inc. – Bowles Rice – AAA – Case 01-18-0000-0240 – Foundation Construction (Defense)
- Logan County Board of Education – Bowles Rice – Circuit Court Logan County – Civil Action 17-C-11-B – Geotechnical (Plaintiff)
- JKLM Energy, LLC et. al. vs. Big Level Wind, LLC, John Hancock Life Insurance et. al. Court of Common Places of Potter County, Pennsylvania No. 86 CD 2017 – Construction, geotechnical and civil/site design associated with gas well pads (Defense)
- Wilkins, Scott v. R&R Holdings – Civil Action 15-c-295 – Flooding and drainage (Defense)
- Larry Rine, et. al. vs. Chesapeake Appalachia, LLC. Robinson & McElwee – Civil Action No. 5:11-CV-4 – Landslide on Natural Gas Well Pad (Defense)
- Bisacca v. Pennsylvania Department of Transportation, Thomas J. Dempsey, Attorney at Law – Earthwork Construction Practices (Plaintiff)
- Sven Verlinden and Lisa Verlinden v. Morgantown Utility Board, et. al. Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-573 – Combined Sewer Flooding (Defense)
- Russell D. Kitchen and Suzanne G. Kitchen v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-745 – Combined Sewer Flooding (Defense)
- Darin O. Arnold and Sarif J. Arnold v. Morgantown Utility Board – Shuman, McCuskey & Slicer, PLLC – Civil Action No. 11-C-749 – Combined Sewer Flooding (Defense)
- Rider v. Fairmont Homes, LLC. – Flaherty, Sensabaugh & Bonasso, PLLC – Claim No. 1012802 – Landslide and Residential Construction Issues (Defense)
- Thomas A. Logston and Joanne C. Logston v. Charles E. Kolb d/b/a Kolb Excavating – A.D. Baker Homes, Inc. and Alan D. Baker, Bowles, Rice, McDavid, Graff & Love – Civil Action No. 10-C-116 – Landslide Resulting in Property Damage (Plaintiff)
- LJH, Inc. v. Quadruple S. Farms, LLC and Four-S-Development, Bowles Rice LLP – Civil Action No. 09-C-438 – Rockfall and Commercial Construction Practices (Plaintiff)
- Mingo County Airport Authority Claim Against Appalachian Paving & Aggregate, Inc. – Robinson & McElwee, PLLC – Earthwork and Construction Related Issues (Defense)
- Children’s Home of Wheeling v. Cast & Baker, et. al. Civil Action No. 06-CV-374W – Geotechnical (Plaintiff)
- Colaianni Construction, Inc. Claim for Cost Recovery Against Koker Drilling at Wetzel County Hospital, Wellness Center Addition – 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)

Civil/Site Design

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

- Appalachian Hotel – Kingwood, WV
- Davis & Elkins College 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 Project (included 5 multi-story buildings, 268 parking spaces, and 43,000 sq. ft. of retaining walls) – Morgantown, WV
- Coombs Farm Residential Development – Morgantown, WV
- Morgan Point Residential Subdivision – Morgantown, WV
- Town of Granville Boat Ramp Project – Granville, WV
- West Run Student Housing (1,000 bed student housing project) – Morgantown, WV
- Copper Beech Student Housing (1,000 bed student housing project) – 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 Beechurst Parking Lot – Morgantown, WV
- Numerous Marcellus Well Pad Sites for Various Clients – Northern WV

Construction Monitoring

Project Manager/Engineer involved with and/or responsible for construction observation/testing on numerous 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 Project – Morgantown, WV
- Family Dollar Store – Smithfield, PA
- University Place Parking Garage – Morgantown, WV
- Church Hill Village Housing Project – Morgantown, WV
- Mills Wetzel #3 Well Pad – Wetzel County, WV
- Shubach 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 Elementary/Middle School Pyrite Remediation Project – Barbour County, WV

- City of Philippi Water Improvement Project – Barbour County, WV
- Mackey Wolfe Well Pad – Barbour County, WV
- Morgantown Technical Services Expansion – Mt. Morris, WV
- Lakin Correctional Center – Wood County, WV
- Western Regional Jail – Cabell County, WV
- Merrick Creek Farm Commercial Development – Cabell County, WV

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

Sewer Lines and WWTPs

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

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

Water Lines, Water Storage Tanks, and Water Treatment Plants

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

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

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

TIMOTHY M. RICE, E.I.T.

Senior Engineer

EDUCATION

B.S. Civil Engineering, 1982
West Virginia University

EMPLOYMENT HISTORY

2014-Present Potesta & Associates, Inc.
2006-2014 Hatch Mott MacDonald
1987-2006 CTL Engineering
1978-1987 George E. Pigott & Associates

PROFESSIONAL REGISTRATIONS

Engineer in Training – West Virginia

TRAINING/RELEVANT COURSE WORK

Natural Stream Channel Design Levels I-IV

AREAS OF SPECIALIZATION

Diversified experience with civil, environmental, surveying, and geotechnical engineering projects for public, state, and private clients with an emphasis on project management and coordination of engineering services and environmental services, to include: permitting and compliance, hydraulic and hydrological analysis, slope stability analysis, geotechnical design, Phase I Environmental Site Assessments, stormwater management, municipal water and sewer design, civil site design, water resources analysis/design, natural gas production well pads and roads, and construction monitoring/observation.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Project Manager/Senior Engineer with experience on numerous civil/site design projects involving various aspects of site development, permitting, and design of residential, commercial, and public development projects.

Lake Floyd Homeowners – Senior Engineer on dredging project for remediation of lake sedimentation at Lake Floyd in Harrison County, West Virginia. Project includes wetland and stream delineations, Section 404 Permitting, sediment disposal area design, and coordination of the most cost-effective method for construction.

Paradigm Architects – Project Manager for civil/site portion of the University Place Parking Garage project at West Virginia University, Morgantown, West Virginia. Project includes geotechnical investigations, surveying, permitting, construction specifications, design drawings, city planning and zoning, project coordination, and construction observation.

American Campus Communities – Project Manager for civil/site portion of Sunnyside Commons Student Housing project at West Virginia University, Morgantown, West Virginia. Project includes geotechnical investigations, surveying, permitting, construction specifications, design drawings, city planning and zoning, project coordination, and construction observation.

Mills Group – Project Manager for civil site design project at Davis and Elkins College in Elkins, West Virginia for the site development and permitting associated with a proposed amphitheater on campus.

Glenmark Corporation – Project Manager for the Greenbag Road project that included, surveying, mapping, geotechnical investigations and recommendations, Phase 1 Environmental Site Assessment, permitting, civil site design and storm water management.

Town of Granville – Project Manager for the Bowser Street Landslide Repair project that included surveying, mapping, geotechnical investigations/recommendations, and preparation of bid documents, contractor selection, and construction oversight.

Town of Granville – Project Manager for various engineering projects including surveying, street repaving, stormwater system evaluation, camera surveys, traffic studies, and mapping projects.

Cirrus Energy Group – Project Manager responsible for coordination and oversight of field and office activities associated with risk assessment study, environmental permitting, preliminary engineering studies, and conceptual planning for a 1,100-acre data center complex in Fox and Horton Townships in Elk County, Pennsylvania.

Harrison County Planning Commission – Project Manager responsible for the coordination and design of Phases 1 – 3 of the Rail Trail project in Harrison County,

West Virginia. Project included engineering design, modeling, permitting, and construction observation services.

Construction Monitoring

Project Manager/Senior Engineer with an understanding of construction observation and testing, including concrete, mortar, grout, soils compaction, bearing capacity, bolt torque, and fireproofing testing on public, private and government construction projects.

Camp Dawson – Quality Control Manager during the construction phase of the Student Training Facility at Camp Dawson, Kingwood, West Virginia. The project included all quality control and construction monitoring for the six-building facility along the airstrip at Camp Dawson.

University Place, LLC – Project Manager responsible for construction monitoring and testing on the University Avenue Parking Garage at West Virginia University, Morgantown, West Virginia. Construction monitoring included the coordination, scheduling, and reporting of the concrete, soils, and fireproofing testing on site.

American Campus Communities – Project Manager responsible for the coordination, scheduling, and reporting of the construction monitoring and testing on the Sunnyside Commons Student Housing project at West Virginia University, Morgantown, West Virginia. Construction monitoring included concrete, mortar, soil compaction, and dynamic cone penetrometer testing.

Oil & Gas

Various Shale Gas Clients – Project director/manager responsible for operational support as it relates to engineering and environmental projects, including: site selection; slope stabilization plans; construction bid documents; design of facility pads, water impoundments, and access roads; and environmental assessments/compliance for gas clients in West Virginia, Ohio, and Pennsylvania.

Project Manager for various shale gas and pipeline projects in West Virginia, Ohio, and Pennsylvania. Projects include facility pad designs, access road design, impoundment design, geotechnical, slope stability issues, surveying, permitting, and environmental compliance services.

- Antero Resources
- Stone Energy
- EQT Midstream
- Chesapeake Energy

Dominion Transmission, Inc., Clarrington Project in West Virginia and Ohio – Project Manager for the environmental tasks associated with the additional compression at two existing compressor station sites, upgrade of an existing meter station, and one new meter station. This FERC regulated project included preparation of resource reports 1 through 12, stream/wetland/T&E field surveys, wetland delineation reports, and earth disturbance permits.

Columbia Gas Transmission, LLC, Rockport Efficiency Project – Project manager responsible for the engineering and design services, including construction drawings and specifications for 13 different sites. These sites include the plugging and abandonment at existing wells, valve replacement, access road modifications, and well pad construction.

Williams Northeast G&P, Grassy Run Pipeline Project – Project Manager responsible for oversight of the environmental field and permitting activities associated with 6,447 feet proposed gas line installation, to include: RTE species review, Cultural Resources review, wetland/stream delineations, soil sampling, Chapter 105 permit application, ESCGP-2 permit application, E&S controls and inspection, and hydrostatic test permit application in Fayette County, Pennsylvania.

Consol Energy, Well Assessment Study – Project Manager responsible for oversight of approximately 400 existing gas and oil well assessments to determine the Greenhouse Gas inventory and general environmental condition of the well sites in West Virginia and Pennsylvania.

Stream/Wetland Delineation, Permitting and Mitigation

Dominion Transmission, Inc., Post Wetland Monitoring and Reporting – Project Manager responsible for the oversight of the post wetland monitoring services for five FERC-certified projects sites in West Virginia and Pennsylvania for three years to measure the revegetation success of wetlands impacted during the construction of natural gas pipeline in the area.

Pennsylvania General Energy – Project reviewer responsible for various wetland/stream delineations, US Army Corps, Chapter 105 permit application, ESCGP-2 permit application, Erosion & Sediment controls and inspections for the Fisk Hollow Pipeline Project in Porter County, Pennsylvania.

Cabot Oil & Gas – Project engineer on Superior Modular Site responsible for U.S. Army Corps of Engineers 401 permitting, WV Public Lands permit, and WVDNR Stream Enhancement plan utilizing Natural Stream Design techniques.

Consol Energy, Stream Mitigation and Remediation – Project Manager responsible for coordination and oversight of field and office activities associated with the mitigation of approximately 55,000 linear feet of streams affected by longwall mining in Greene County, Pennsylvania. Responsibilities include mitigation planning, construction management, permitting, and augmentation plans. This project utilized shallow low-pressure grouting and minimal stream modifications necessary to improve flow characteristics and stream stability.

Consol Energy, Impoundment Mitigation – Project Manager responsible for the coordination and oversight of field and office activities associated with the mitigation of an existing private impoundment affected by longwall mining in Wetzel County, West Virginia. This project included dewatering of the existing impoundment, shallow low-pressure grouting within the dewatered area and placement of a bentonite liner on the bottom of the impoundment to control the impacts of mine subsidence.

Consol Energy, Stream Monitoring and Regulatory Compliance – Project Manager for monitoring and regulatory compliance of areas above longwall coal mining operations in Greene County, Pennsylvania. This project included monitoring and data collection of surface and ground water using sub-foot Trimble GPS units, Marsh McBirney Flo-mate 2000 flow meters, and digital cameras. This project also included the management of data to determine trends, historical frequencies, and predictive modeling.

US Steel – Project liaison responsible for assembling the in-house team and initial client negotiations for a 1,500-acre Palisades Wetlands banking project in Duluth, Minnesota.

J.F. Allen Company, Stream Restoration – Project Engineer responsible for WVDEP permitting associated with a stream restoration plan utilizing natural stream design technique in Bowden, West Virginia.

Abandoned Mine Lands

Project Manager/Senior Engineer for 80 abandoned mine lands projects in West Virginia, Maryland, Ohio, and Pennsylvania. These projects include: reclamation design, mine fire and burning refuse pile extinguishment, impoundments, slope stability, mine sealing, acid mine drainage abatement, subsidence investigations and stabilization plans, landslides, water feasibility studies, and watershed studies. These services also included detailed design drawings and specifications for construction, as well as assisting with the bidding and any construction issues of each individual project.

West Virginia Department of Environmental Protection, Pendleton Creek Strip, Thomas, Tucker County, West Virginia - Project Manager responsible for reclamation design and stream remediation of an abandoned surface mine in. Geosynthetic liners and Natural Stream Design techniques were used to prevent headwater base flows from entering an abandoned deep mine through mine voids and subsidence features. Existing wetlands were protected utilizing staged culvert and low water crossings. This project also included ARRI reforestation techniques and riparian habitat replacement.

West Virginia Department of Environmental Protection, Taylor Creek Impoundment – Project Manager responsible for reclamation of a 120-acre burning refuse pile and a 24-acre impoundment in Clay County, West Virginia. This work involved the reclamation and extinguishment of the burning refuse pile, dewatering of the impoundment, subsurface investigation of burning material to depths of approximately 110 feet and the design and reconstruction of approximately 3,400 feet of Taylor Creek.

West Virginia Department of Environmental Protection, Blackwater River Beaver Creek Treatment Project – Project Manager responsible for the rehabilitation of an existing concrete dam, the installation of rotating drums, and a limestone slurry treatment facility on the Blackwater River in Tucker County, West Virginia. This was a cooperative project with WVDEP and WVDNR and has been recognized by “Trout Unlimited” and “Outdoor Life”. This project has successfully

transformed a formerly dead section of the Blackwater River into a high-quality trout fishery and was recognized by the US Department of Interior, Office of Surface Mining, as the 1999 Appalachian Region Award Winner.

West Virginia Department of Environmental Protection – Decker’s Creek Watershed Study, Monongalia and Preston County, WV - Project Manager responsible for a comprehensive study of the watershed to determine if improvements can produce a sustainable fishery. Graphic Information Systems (GIS), stream invertebrate data, water quality data, and in-stream limestone sand test sites were used to complete the investigation. The Decker’s Creek Watershed has a 60 square mile drainage area impacted by both abandoned surface and abandoned deep mines causing the upper reaches of the stream to be net acidic, with elevated concentrations of iron.

West Virginia Department of Environmental Protection, Brushy Fork Waterline Feasibility Study – Project Manager for the hydrologic study of a mine-impacted watershed for the design of a public waterline extension to serve the rural community in Harrison County, West Virginia. The study included documentary, field assessment, and laboratory review of conditions to determine eligibility.

West Virginia Department of Environmental Protection, Amigo Smokeless Refuse Pile – Project Manager for the stabilization of a 300-foot-high coal slurry impoundment and refuse pile in Wyoming County, West Virginia. This pile was placed using an aerial tram and consisted mainly of coarse refuse. The primary drainage structures had failed, and the slope was deteriorating. Several residences and active railroads were within the breach zone.

West Virginia Department of Environmental Protection, Moundsville Water Supply Study – Project Manager responsible for an investigative study of the fresh water well field for the City of Moundsville situated along the Ohio River in Wood County, West Virginia. Increasing levels of manganese contamination were deteriorating the quality of this aquifer. A site investigation study was performed to determine the location and effects of mining activities on the local groundwater aquifers. Existing mine maps, geologic information, and background data were reviewed. Geotechnical investigations and aquifer testing were performed to determine the location, depth, and extent of the potential contaminants.

Maryland Department of the Environment, Shallmar Limestone Doser – Project Manager responsible for the

design of an AquaFix doser treating AMD runoff from a reclaimed surface mine discharging to the Potomac River basin in Garrett County, Maryland. Design included silo, foundation, and maintenance provisions for this water-driven doser.

Maryland Department of the Environment, Jackson Mountain Mine Fire – Project included engineering design services and construction documents necessary to determine the location and characteristics of a mine fire and then design of an excavated cutoff barrier to prevent the crop line fire from encroaching on the roadway and an existing high-pressure gas line in Alleghany County, Maryland. Additional services included the stabilization of an existing landslide that had occurred as a result of the mine fire.

Maryland Department of the Environment, Kingsland Mine Pool Investigation – This project included an engineering assessment of the existing conditions of a flooded, abandoned deep mine and its blowout potential as related to public safety concerns of the residents in Alleghany County, Maryland.

Mining

Project Manager for surface and deep mining activities associated with coal and aggregate mining facilities. Projects include civil site design, geotechnical, surveying, environmental compliance, permitting, stream monitoring, and mitigation services.

Shannopin Materials, LLC, Shannopin Dock Site, Dilliner – Project Manager responsible for the PADEP permitting necessary for the re-opening of an abandoned stockpile area, dock site, and rail load-out facility in Greene County, Pennsylvania.

Dana Mining Company, 4-West Mine, Eisenhower Shaft Site – Project Manager responsible for PADEP permitting, necessary for the installation of a mine shaft at the 4-West Deep Mine in Mt. Morris, Greene County, Pennsylvania.

Dana Mining Company, Prime No. 1 Deep Mine – Project Manager responsible for PADEP permit revisions necessary for an extension of the mining limits and effected area of an existing deep mine facility in Mt. Morris, Greene County, Pennsylvania.

Coresco, LLC, Cobra Refuse Dump #4 – Project Manager responsible for the PADEP permitting necessary for the development and operation of a coarse coal refuse disposal site in Greene County, Pennsylvania. This site also included the land application of alkaline material.

Water Lines, Water Storage Tanks, and Water Treatment Plants

Preston County Public Service District No.1, Nine County Roads Waterline Extension Project – Project Director responsible for the coordination and oversight of a waterline extension project in Arthurdale, Preston County, West Virginia. Project included permitting, design, bidding, and construction coordination.

Short Line Public Service District, Ten Mile Waterline Extension Project – Project Director responsible for the coordination and oversight of a waterline extension project in Harrison County, West Virginia. This project also included the initial stages of cost analysis and feasibility evaluations, and system improvement analysis to help minimize water losses.

JEREMI J. STAWOVY, E.I.T.

Engineer

EDUCATION

- M.S. Civil/Environmental Engineering, 2011
West Virginia University
- B.S. Civil/Environmental Engineering, 2009
West Virginia University

EMPLOYMENT HISTORY

- 2013-Present Potesta & Associates, Inc.
2012-2013 Sci-Tek Consultants, Inc.
2009-2012 West Virginia University Geotechnical
Department
1993-2009 Quality Construction, Quality Crane
Service, and Sons

PROFESSIONAL REGISTRATIONS

Engineer-in-Training – West Virginia

PROFESSIONAL CERTIFICATIONS

- Troxler Moisture – Density Gauge
- OSHA Hazardous Waste Operations and Emergency
Response Training – 40-hour

TRAINING/RELEVANT COURSE WORK

- Pennsylvania One Call Web Ticket Entry Training
- Engineers Society of Western Pennsylvania – Simply
Smart Writing Tools Training

AREAS OF SPECIALIZATION

Involved with many aspects of Civil Engineering including Civil Site Design, Permitting, Construction Monitoring, Laboratory Testing, and Construction with a special interest in the Geotechnical/Environmental aspects.

PROFESSIONAL EXPERIENCE

Geotechnical

Responsibilities have included Geotechnical evaluations including management of subsurface explorations, settlement analysis, slope stability modeling, foundation analysis, landslide repairs, well pad construction, roadway

improvements/repairs, and commercial/residential construction.

MEPCO, Marshall Portal – Completion of nine (9) borings and installation of one inclinometer, associated laboratory testing, geotechnical recommendations, and slope stability monitoring/analysis at a deep mine shaft site to assist with stabilization of mine portal pad and access road near Mount Morris, Pennsylvania.

Town of Granville – Completion of five (5) borings, laboratory testing, geotechnical recommendations, civil site design, contract document preparation, and construction monitoring/testing for the Bowser Street Landslide Repair in Granville, West Virginia.

Stone Energy, Weekly Pad – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, and installation of an inclinometer to monitor slope stability/movement at a natural gas well pad in Wetzel County, West Virginia.

Greer Industries, Cheat River Quarry – Completion of several subsurface borings, laboratory testing, geotechnical recommendations, civil site design, and construction monitoring/testing for the landslide repair and drainage improvements at a limestone mine/quarry in Preston County, West Virginia.

Carmeuse Lime and Stone – Slope stability modeling for proposed slopes for a limestone mine/quarry in Clear Brook, Virginia.

Harry Green Chevrolet – Evaluation of failed retaining wall near Bridgeport, West Virginia.

Stone Energy, Schupbach Ridge Slip – Retaining wall design/construction monitoring for roadway improvement/slip repair in Wetzel County, West Virginia.

Stone Energy, Conley Pad – Retaining wall design for well pad in Wetzel County, West Virginia.

City of Morgantown, Jacobs Street Landslide – Evaluation of a landslide that was impacting a City Street. Involved with subsurface exploration that included 4 borings, design of a soldier beam and lagging retaining wall, and construction observation of the repair.

Northern Panhandle Conservation District, Wheeling Creek #7 Landslide – Evaluation of a landslide that has occurred at a parking area located within the storage area of the Wheeling Creek #7 flood control dam. Involved with drilling of 4 subsurface borings and design of remedial measures, Ohio County, West Virginia

Northern Panhandle Conservation District, Upper Grave Creek Flood Control Dam – Evaluation of a landslide that has occurred on the outslope of the emergency spillway embankment. Involved with drilling of 6 subsurface borings and design of remedial measures and drainage improvements.

CDM Smith – Route 4 Flood Repair for Queen Shoals landslide, Rock Buttress Repair, King Shoals Box Culvert Repair which involved subsurface evaluation including drilling borings and designing repairs for two landslides and one box culvert washout that occurred as a result of the June 2016 flooding on Route in Kanawha County, West Virginia.

White Brothers – Leatherwood Road Repairs which involved with the subsurface evaluation including drilling borings and designing repairs for a bridge repair and two landslides that occurred as a result of the June 2016 flooding in Kanawha County, West Virginia.

Stahl Sheaffer Engineering – Roadway improvement projects. Completion of multiple field explorations and geotechnical reports for bridge and roadway improvements for the gas industry in Roane, Wirt, Wetzel, Ritchie, and Jackson counties, West Virginia.

Stagg Land Resources – Completion of over forty (40) test borings, associated laboratory testing, and sonic drilling for hydraulic fracking sands in Monahans, Texas.

CA Ventures, WVU Housing – Completion of eight (8) test borings, associated laboratory testing, and geotechnical recommendations for a combined shallow and deep foundation system for a proposed 13-story student housing project in downtown Morgantown, West Virginia.

EQT, Ohio River for Horizontal Directional Drilling (HDD) – Completion of 35 test borings, associated laboratory testing, and geotechnical recommendations at three sites in Ohio and West Virginia relating to a proposed pipeline and transmission pad projects.

American Campus Communities, Sunnyside Commons – Completion of 23 test borings, associated laboratory testing, geotechnical recommendations, civil site design, surveying, and construction phase geotechnical consulting/testing for a 5.4 Acre high-density student housing project in downtown Morgantown, West Virginia.

Glenmark Holding, LLC, Greenbag Road Development – Completion of four (4) borings, laboratory testing, geotechnical recommendations, civil site design, surveying, stakeout, and construction consulting on a commercial development in Morgantown, West Virginia.

EQT, Gemini Compressor Station and Interconnect – Completion of 11 borings, laboratory testing, wetland delineation, mine mapping/research, and preliminary geotechnical recommendations for a proposed compressor station and interconnect in Harrison County, West Virginia.

West Virginia Department of Environmental Protection, AML – Subsurface evaluation for Lake Lynn Complex near Morgantown, West Virginia. Drilling included drilling into the mines and setting piezometers to monitor the water levels in the mine.

Johnson, Mirmiran & Thompson – Subsurface evaluation for proposed bridge at West Virginia University Downtown Loop in Morgantown, West Virginia.

Wastewater Management – Subsurface evaluation for proposed wastewater treatment plant at Snowshoe Resort in West Virginia.

Basic Systems – Construction monitoring of geotechnical recommendations (Geogrid system) at Waynesburg Compressor Station.

Dodge Dealership – Subsurface evaluation for proposed building and site in Elkins, West Virginia.

Columbia Gas/Basic Systems- Chantilly Compressor Station- Completion of subsurface borings, laboratory testing, and geotechnical recommendations for a Compressor Station in Chantilly, Virginia.

Philadelphia Water Department (PWD) Queen Lane Water Treatment Plant- Completion of several subsurface borings, laboratory testing, and geotechnical recommendations in Philadelphia, Pennsylvania.

EQT – Subsurface evaluation for the pad:

- Corona Compressor Station
- Plasma Compressor Station

Rubbermaid Commercial – Subsurface evaluation for proposed building and site near Winchester, Virginia.

Great West Casualty Company – Geotechnical recommendations for a spill along I-68 at Bruceton Mills, West Virginia.

Stone Energy – Completion of several subsurface borings, laboratory testing, and geotechnical recommendations for a natural gas well pad in Wetzel County, West Virginia.

Geotechnical evaluations of encountered coal seams during residential construction and provided recommendations for construction of two separate homes in Harrison County, West Virginia.

- Roger Carter
- Chad Pokrzywa

FedEx – Concrete testing services for compressive strengths and air entrainment in Harrison County, West Virginia.

Civil/Site Design

Performed conceptual and final site designs which requiring roadways, erosion and sediment control, stormwater drainage and management West Virginia Department of Environmental Protection (WVDEP) construction stormwater permits, West Virginia Division of Highways (WVDOH) entrance permits, water line, sanitary sewer line and pump design for multiple commercial and residential developments.

Coombs Farm Development- Surveying, civil site design, construction stormwater permitting, entrance permits in Morgantown, West Virginia.

Construction Observation

Performed construction observation for ongoing construction projects. Tasks included but were not limited to compaction testing, bearing capacity testing, moisture level testing, construction method observation for site development, utility line placement, pond construction, retaining walls, etc.

Columbia Gas/Basic Systems – Construction monitoring of geotechnical recommendations (Geogrid system) at Waynesburg Compressor Station in Waynesburg, Pennsylvania.

Sewer Lines and WWTP

Engineer on numerous public utility projects such as sanitary sewer collection/treatment, as well as combined sewer/storm water improvements.

City of Glenville – Infiltration/Inflow Study for Sanitary System in Glenville, West Virginia.

Hunting Hills – Infiltration/Inflow Study for Sanitary System. Design of improvements to wastewater treatment plant. Permitting with WVDEP and WVDHHR in Monongalia County, West Virginia.

Laboratory Testing

Responsible for soils lab at West Virginia University under a graduate research assistantship. Managed all testing and teaching of laboratory classes in accordance with ASTM standards. Installation and startup verification testing of modern GEOTAC testing equipment and software. Geotechnical laboratory research testing for the coal and gas industry.

Additional Experience

Construction – Responsible for project management, safety management, preparing bids, purchase orders, and material delivery:

- Framing
- Roofing
- Siding
- Construction Planning
- Electrical
- Plumbing
- Earthwork
- Concrete Finishing
- Drywall
- Operator of cranes, backhoes, skid steers, excavators, etc.

Sand Hill Berries – Construction of a new winery facility. Management of framing, safety, and crane operations in Mount Pleasant, Pennsylvania.

Mennonite Church Camp – Construction of several large pavilions in Mount Pleasant, Pennsylvania. Management of earthwork, safety, framing, roofing, and concrete.

Construction of several structurally insulated foam panel homes (SIP homes). Management of framing, windows, doors, roofing, insulation, and concrete in Fayette and Westmoreland Counties, Pennsylvania.

Completion of many roofing projects including, asphalt shingles, metal roofing, and rubber/ multi layer flat roofing systems in Fayette and Westmoreland Counties, Pennsylvania.

Noah Accord, PE

Noah has more than 12 years experience in structural engineering, design, specification, and project management. During his employment with Alpha Associates and EarthRes Engineering, Noah provided structural design and managed multiple built projects. His experience encompasses a wide range of projects including K-12 and higher education facilities, financial Institutions, emergency services buildings, natural gas facilities, and automotive dealerships. A native of Braxton County, Noah is a Licensed Professional Engineer in Pennsylvania and West Virginia.

Project Role: Structural Engineer

- Structural Engineering and Design
- Concept and Construction Design
- Quality Assurance and Control

Professional History

2015- Present	EarthRes Engineering	Project Manager
2005-2015	Alpha Associates	Associate and Structural Engineer

Education

2004	University of Pittsburgh	B.S Civil Engineering
2005	University of Pittsburgh	M.S Civil Engineering

Licenses and Certifications

- Licensed Professional Engineer (West Virginia, Pennsylvania)

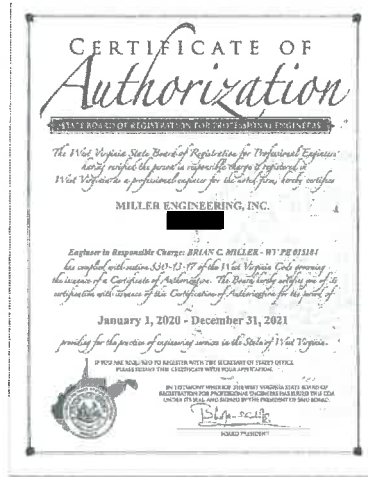
Professional Project Highlights

- Potomac State College – ADA Connector Building
- Potomac State College – Church-McKee Plaza
- Potomac State College – Shipper Library Façade
- WVU Engineering Sciences Building – East Wing Addition, 10th Floor Fit-Out, Basement Renovation
- WVU Engineering Research Building – G07 & G08 Renovation
- WVU College of Physical Activities and Sports Sciences/ Student Health Center
- WVU Center for Alternative Fuel Engines and Emissions
- Alderson Broaddus University – Pyles Arena Deck Replacement
- Glenville State College – Morris Stadium Skybox
- Washington High School, Jefferson County Schools, WV
- Pineville Elementary School, Wyoming County Schools, WV
- Huff Consolidated School, Wyoming County Schools, WV
- Aurora School Addition, Preston County Schools, WV
- Riverview High Field House Design-Build, McDowell County Schools, WV
- Safe School Entries, Monongalia County Schools, WV
- Morgantown High Elevator, Monongalia County Schools, WV
- Clear Mountain Bank, Oakland, MD
- Clear Mountain Bank, Reedsville, WV
- Clear Mountain Bank-Kroger, Sabraton, WV
- Fairmont Federal Credit Union, Bridgeport, WV
- Freedom Ford, Kia, and Volkswagen Automotive Dealerships, Morgantown, WV
- Jenkins Subaru Addition, Bridgeport, WV
- Elkins Fordland Renovation, Elkins, WV
- Elkins Chrysler Dealership, Elkins, WV
- Harry Green Nissan Design-Build, Clarksburg, WV
- Cool Green Automotive Addition and Renovation, Shepherdstown, WV

Professional Project Highlights (continued)

- OPM, Eastern Management Development Center Addition, Shepherdstown, WV
- US Coast Guard – Conference Room Renovation, Martinsburg, WV
- Eastern Panhandle Transit Authority Addition, Martinsburg, WV
- WV National Guard - Armory Office Fit-out, Parkersburg, WV
- South Berkeley Fire Station, Inwood, WV
- Jefferson County Emergency Services Agency – New Headquarters
- Berkeley County Ambulance Authority – South Station Renovation and Addition
- Community Center, Ridgeley, WV
- Wastewater Treatment Plant Renovations, Martinsburg, WV
- Public Works Building, Fairmont, WV
- Clarion Hotel Renovation, Shepherdstown, WV
- FBOP Hazelton Prison Medium Security Complex, Hazelton, WV
- Regional Eye Associates/ Surgical Eye Center, Morgantown, WV
- Bavarian Inn – Infinity Pool/ Pool Bar, Shepherdstown, WV

Staff – Proposed Staffing Plan



West Virginia State Board of Registration
for Professional Engineers

BRIAN C. MILLER
WV PE [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2021

West Virginia State Board of Registration
for Professional Engineers

TRAVIS W. TAYLOR
WV PE [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2020





TAB 2 – PROJECT ORGANIZATON



Staff – Proposed Staffing Plan

MILLER ENGINEERING

<u>Craig Miller, PE</u>	President, Principal in Charge
<u>Travis Taylor, PE</u>	Lead MEP Engineer
<u>Joseph Machnik</u>	Designer / BIM Coordinator
<u>Eyad Alhalabi</u>	Junior Engineer

MONTUM ARCHITECTURE

<u>Tom Pritts, AIA</u>	Architect, Owner
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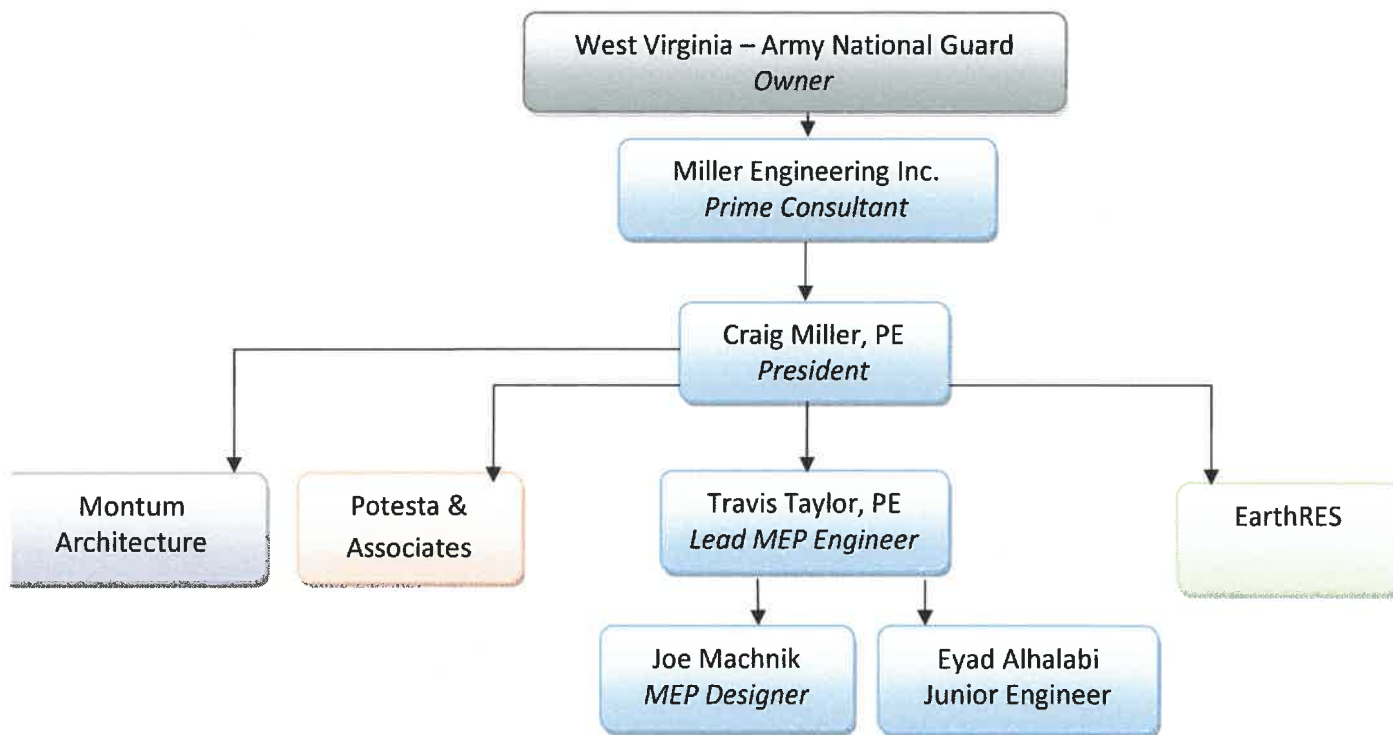
POTESTA & ASSOCIATES

<u>David Sharp, PE</u>	Senior Engineer
<u>Tim Rice, EIT</u>	Senior Engineer
<u>Jeremi Stawovy, EIT</u>	Engineer

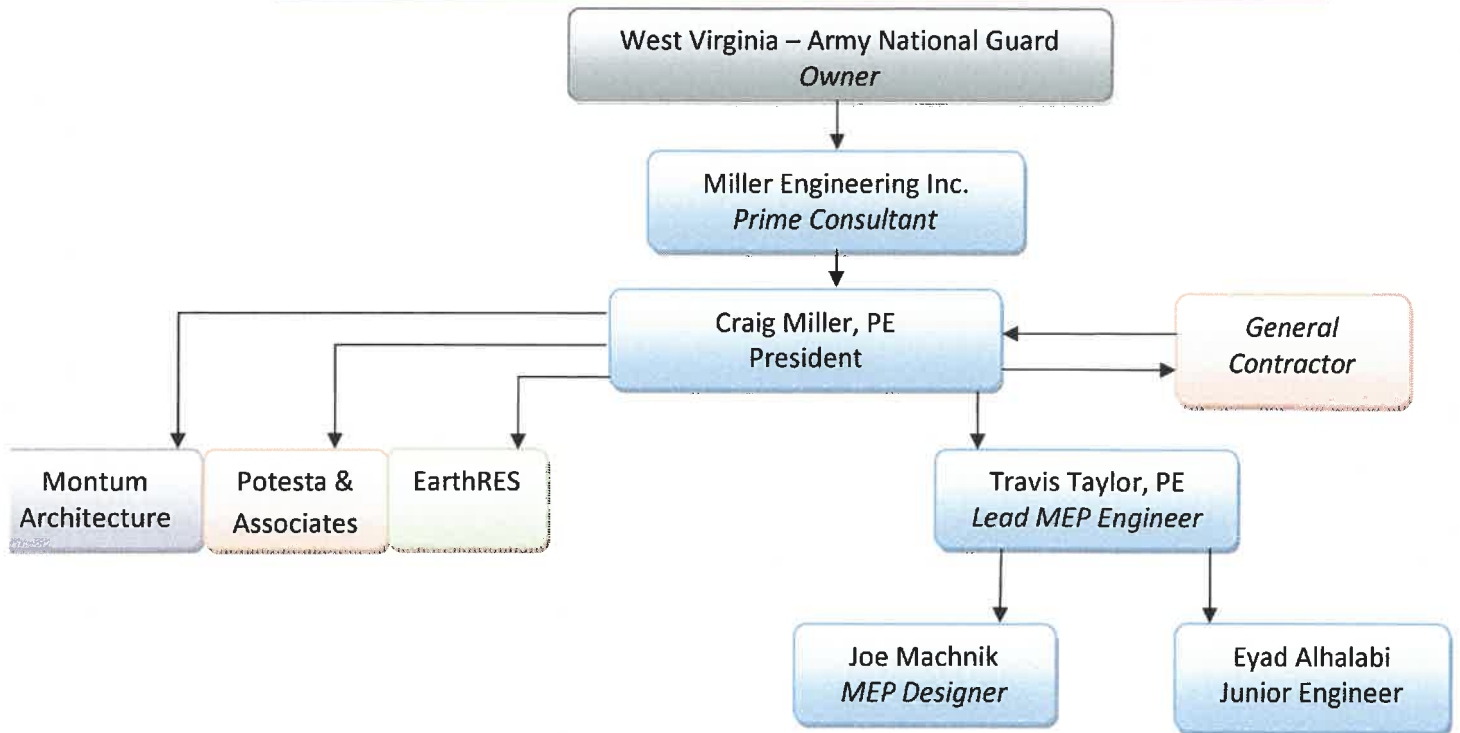
EarthRES

<u>Noah Accord, PE</u>	Structural Engineer
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Organization Chart -Design



Organization Chart – Construction



Descriptions of Past Projects Completed – MEP

South Middle School HVAC Renovations

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm

Contract Amount: \$1.45M
Facility Area: 111,800 ft²
Owner: Monongalia County Board of Education



PROJECT GOALS: Improve air quality and temperature controls. Limit school disruptions.

MEI designed retrofits to existing HVAC equipment which will allow the system to perform correctly. The project was detailed in phasing to permit some work to be performed during the school year during breaks and holidays to keep the school in operation.

South Middle School was served by a single DX AHU with various terminal devices such as VAV and self-piloted boxes. The school had been suffering from poor air quality and temperature control issues. Additionally, the condensing unit had failed. Initiated in November, MEI designed a rebuild of the AHU; replacing the DX coils with HW and CW coils and adding new chillers in time to meet the Spring cooling need. The two large supply fans were replaced using a fan wall system which allowed the fans to operate at max output and minimize noise and vibration issues which plagued the old sled mounted fans. A new boiler serves the hot water coil and two chillers were installed with piping on the roof to serve the AHU cooling coil. The air terminal devices will be rebuilt and retrofitted to provide better control. The project was completed in December 2019.

Project Contact:
 Robert Ashcraft
 Monongalia County Facilities
 Phone: (304) 291-9210

Project Experience: HVAC Upgrade

Building 22 2nd Floor Upgrades

Charleston, WV

Services Provided:

- Mechanical
- Electric
- Telecommunications
- Construction Administration

Renovation Area: 7,400 sq ft

Contract Amount: \$398k

Owner: State of West Virginia –
General Services Division



West Virginia State Building 22 required renovations to the 2nd floor, which houses the state tax office. New mail processing equipment which have cooling, power, and data requirements were purchased by the state and the floor plan needed modifications. This building is an extremely high secure area. It houses the tax and revenue department for the State of WV. Approximately 2.5 million dollars is processed through this building daily.

Miller Engineering, along with Montum Architecture designed the renovations to the 2nd floor to accommodate the changes needed. The existing space was served by a fan powered VAV AHU. The existing air distribution was modified to meet the requirements of the new floor plan. The processing room and server rooms, which require year round cooling, are being served with computer-room air conditioning (CRAC) units.

The revised floor plan called for modifications to the power and telecommunications layouts for the integrated furniture systems. The grounding and bonding systems for the server room were upgraded as well. This project was completed in April, 2018.

Project Contact:

David Parsons, Operations and
Maintenance Manager
State Capitol, Room E-119
(304) 957-7122

Descriptions of Past Projects Completed – Phased Renovation

Morgantown Municipal Airport

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm/Protection

Estimated Budget: \$1.25M

Facility Area: 12,000 ft²

**Owner: Morgantown
Municipal Airport**



The terminal renovation was initiated to create an improved, more functional space for the terminal offices and the fixed base operator. This project required the maximum re-use of existing HVAC equipment including a renovation and re-configuration of the existing VAV system to serve newly subdivided areas. The existing fire alarm system was evaluated and found to be insufficient, requiring a full replacement. Office areas and the fixed base operator (FBO) offices were moved and enlarged, with modifications to HVAC systems serving those areas. The electrical work includes new electrical distribution in the project area to serve the needs of both the airport and the FBO. Electrical deficiencies relating to the original construction were identified and corrected. New rental space was created along with increasing the size and efficiency of the terminal office spaces. The phased approach necessitated by funding being split over two years required increased document detail and coordination.

Project Contact:

*Glenn Kelly, Airport Director(Former)
Morgantown Municipal Airport
(304) 291-7461*

**Mr. Kelly has retired from this position.*

Descriptions of Past Projects Completed – HVAC, Electric

Withers Brandon Hall

Philippi, WV

Services Provided:

- Electrical
- HVAC

MEP Budget: \$700k

Facility Area: 31,800 ft²

Owner: Alderson Broaddus
University

Status: Completed



As part of renovations to Withers Brandon Hall at Alderson Broaddus University, MEI was brought in to evaluate and design upgrades to the HVAC system. The existing chiller and piping insulation had failed. The existing system was a two-pipe system with chiller and boilers serving fan coil units. MEI proposed to re-use the piping and replace the fan coil units with water source heat pumps (WSHP). This allows the existing piping to be re-used and piping insulation would not have to be replaced. The chiller will be replaced with a fluid cooler located outside the building. The three non-condensing boilers will be replaced with a much more efficient modulating condensing "double stack" boiler. The ventilation units are located in the unconditioned attic space and are difficult to perform maintenance on. New ducted heat pumps tied to energy recovery ventilators will tie into the existing fresh air duct to provide ventilation and relief air. The design limits the amount of modifications outside of the mechanical rooms which will aid with the compressed construction schedule. The project was completed in October 2019.

Project Contact:
David Snider, AIA
Omni Associates, Inc
(304) 367-1417

Descriptions of Past Projects Completed – Relocation

Morgantown Municipal Airport

Services Provided:

- Mechanical
- Electrical
- Site Utility
- Ramp and Taxiway lighting

Estimated Budget: \$675k

Facility Area: N/A

**Owner: Morgantown
Municipal Airport**



Miller Engineering was retained to provide ME/site utility support to the relocation of the ILS localizer antenna array and supporting equipment building as part of the greater runway 18/36 runway safety area construction. New electrical and tel/data service entrances were required from the local utilities. The locations required both utility overhead extensions and significant underground conduit runs to accomplish the new services. Additionally, several thousand feet of underground, concrete-encased electrical ductbank was required to interconnect the existing runway facilities, the localizer building, and the antenna array. An extensive grounding and lightning protection system were required to protect the flight critical equipment. Modifications were made to the existing run taxiway marker and ramp lighting. The fast track project still had to meet strenuous FAA standards and design review by the FAA staff; both locally and with the regional flight controls division.

Project Contact:

*Bob Hammel, Director(Former)
Morgantown Municipal Airport
(304) 291-7461*

**Mr. Hammel has retired from
this position.*

Descriptions of Past Projects Completed – Fire Protection

Camp Dawson FMS4 Fire Protection

Kingwood, WV

Services Provided:

- Fire Protection

Budget: \$130K

Facility Area: 7,400 sq ft

Owner: WVARNG



FMS4 is a vehicle and equipment repair facility located on the Camp Dawson Army National Guard base located near Kingwood, WV. The 7,400 square foot facility includes 4,800 square feet of high bay service area, with the remaining area dedicated to office space, storage, and locker rooms. The facility contains bulk storage of oil and other equipment fluids, requiring fire protection. MEI was tasked with designing a fire protection system which would provide adequate coverage of FMS4 and meet applicable codes. Through research of NFPA 30 and NFPA 13, MEI was able to determine the size of the service and coverage requirements. MEI determined that by providing separation of the bulk storage from the rest of the facility, the fire protection service requirements could be reduced, eliminating a water service upgrade by the utility. Montum Architecture was brought on board to provide architectural support in regards to the separation of the bulk storage room and for the construction of the sprinkler room. The project was successfully completed in December 2019, one month ahead of schedule.

Project Contact:

Jim Skaggs

WV ARNG

(304) 561-6550

Descriptions of Past Projects Completed – MEP

Morgantown High School Boiler Replacement/ Area 4 HVAC Renovation

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm

Estimated Budget: \$1.0M
Contract Amount: \$1.038M
Owner: Monongalia County Board of Education
Status: Complete



Project Contact:
 Robert Ashcraft
 Monongalia County Facilities
 Phone: (304) 291-9210

Morgantown High school, like others throughout the state, has seen many changes through the years. Unfortunately the steam boiler plant remained in operation but with little maintenance for a number of years. The 40 year old boilers had exceeded their operational life and were experiencing reliability issues. MEI Evaluated the boilers and the associated 80 year old steam systems, recommending their replacement. Steam heating control was a significant issue.

Previous projects installed split DX refrigerant based systems in several classrooms within the science and technology wing. These units were obsolete and required replacement with a more reliable system, which can meet current ventilation standards. Additionally, there were 3 classrooms, which were heating only with little or no control, that required addition to the overall solution for this section of the building. Based on the conditions of the steam systems piping and devices, new hot water boilers were installed.

This project was completed in late 2017.

Budget and Timeline History

Project Name	Project Type	Budget	Cost	Notes
Bluestone State Park	Pool Replacement	\$1,000,000	\$935,600	On budget
West Virginia State	HVAC Piping Renovation	\$650,000	\$533,400	On budget
Canaan Valley Resort	Emergency Electrical Repairs	\$225,000	\$129,829	On budget
Holly Grove Manor	Renovation	\$885,000	N/A	On hold
Mapletown Jr/Sr High School	HVAC Renovation	\$1,050,000	\$1,105,900	5.19% over budget
Pipestem – McKeever Lodge	HVAC Piping Replacement	\$1,600,000	\$1,776,000	10.43% over budget
Tygart Lake State Park	Beach and Bathhouse	\$750,000	\$695,000	On budget

= Delivered on budget/on time

Budget and Timeline History

Project Name	Project Type	Contract Length	Contract Delivery	Notes
Blackwater Falls State Park	Boiler Replacement	120 days	180 days*	*Extended 60 days due to equipment delivery issues
Bluestone State Park	Pool Replacement	180 days	180 days	Delivered on time
Canaan Valley Resort	Construction Administration	3.5 years	3.5 years	Long-term project with varying facets – no direct schedule
Twin Falls/Hawks Nest Lodge	HVAC Renovation	90 days	90 days*	*Expedited delivery
Mapletown Jr/Sr High School	Boiler/ HVAC Renovation	180 days	180 days	Delivered on time
Pipestem – McKeever Lodge	HVAC Piping Replacement	365 days	365 days	Delivered on time
Tygart Lake State Park	Beach and Bathhouse	270 days	270 days	Delivered on time



What our satisfied customers have to say...

“Hard working, do-whatever-it-takes, diligent team that provides excellent customer service is what you can expect from Miller Engineering.”

--Chris Halterman, Dominion Post, Morgantown

“As a design/build team, working with Miller Engineering, our project involving a private surgical hospital together was a success – completed ahead of schedule and on budget. Miller worked with us throughout the project to consult, engineer and inspect the mechanical systems. Craig Miller, PE and his staff are working with us again, and are very important members of our design/build team. I highly recommend their services.

--Richard J. Briggs

<p>Brad Leslie, PE <i>Assistant Chief WV Division of Natural Resources State Parks Section 324 4th Avenue South Charleston, WV 25303 (304) 289-7663 Bradley.S.Leslie@wv.gov</i></p>	<p>Paul Braham Associate Director of Maintenance & Engineering Mylan Pharmaceuticals 781 Chestnut Ridge Road Morgantown, WV 256505 412-519-9846 304-554-5626 Paul.Braham@mylan.com</p>	<p>Gregory L. Melton Director WV General Services Div. 401 California Ave. Building 4, 5th Floor Charleston, WV 25305 (304) 558-1808 304-965-1219 Gregory.L.Melton@wv.gov</p>
<p>Bob Ashcraft <i>Safety and Ancillary Projects Monongalia County Schools 533 East Brockway Street Morgantown, WV 26501 (304) 276-0152 rbashcraft@access.k12.wv.us</i></p>	<p>Dave Parsons Energy Program Manager WV General Services 112 California Avenue Building 4, 5th Floor Charleston, WV 25305 (304) 957-7122 David.K.Parsons@wv.gov</p>	<p>Richard J. Briggs Vice President Lutz Briggs Schultz & Assoc. Inc. 239 Country Club Drive Ellwood City, PA 16117-5007 (724) 651-4406 lbsa@zoominternet.net</p>

From Jonathan Miller, Mechanical Project Manager, Nitro Mechanical:

“Miller Engineering is not your average engineering company; they work with the owner AND the contractor to solve all issues that arise throughout the project to make the process as fluid as possible”



TAB 4 – METHODOLOGY & APPROACH



Project Methodology & Approach

Evaluation

Miller Engineering will begin the design process by reviewing all existing documentation regarding Building 401 and 406. This includes construction documents, submittals, Testing and Balancing (TAB) reports, and as-built drawings. MEI will use this as the basis to perform a complete site evaluation of the facility and document the building systems as currently constructed and compare to the original design documents. Montum Architecture will evaluate the doors and windows in building 401 and a complete floor plan assessment of building 406 in regards to modern building codes and ADA requirements. If deemed necessary, EarthRES will be brought in to evaluate the structures of both building. Potesta will be a resource in regards to any buried utilities at Camp Dawson if they need to be located. MEI will incorporate these reviews to construct a building information model (BIM) of the airfield support center buildings using Autodesk REVIT.

Schematic

Once the BIM models of buildings 401 & 406 are complete, and MEI grasps the building systems intent and construction, MEI will meet with the owner. The meeting will involve all stakeholders to gain an understanding of the intended project outcomes. For building 401, the discussions will be primarily focused on the condition and issues related to the HVAC systems. Plans will be made to replace the windows and doors to those that meet current codes. For building 406, the meeting will help MEI understand the intent of the revised floor plan and space usage in the building. MEI will also discuss with the staff to determine the requirements necessary for relocating critical airfield control devices including phasing and emergency provisions necessary. The initial schematic design will be the basis of the 35% documents. MEI will provide cost estimates using real material quotes and take-offs to accurately convey projected costs to the owner.

Design Development

MEI will take input from the owners based upon review of the 35% design documents and proceed. While the requirements of the EOI give specific milestones for progress sets (35%, 65%, 95%, & 100%), MEI will not wait until the next progress set to speak with the stakeholders if questions arise. Our philosophy is that the sooner issues are brought forward and addressed, the less they cost the project in time and money. The estimate will also be updated regularly as MEI treats the estimate as a "living document." Any changes or inputs from the owner, as well as other changes made during proceeding with design development, will be reflected in the estimate. MEI believes in giving the owner the information necessary, including budgetary effects, to make informed decisions regarding the design. The 65% and 95% progress sets will reflect the outcomes of the formal and informal discussions with the owners.

Construction Documents

The construction documents will be completed using both the results of the progress set reviews and internal peer review. MEI understands that while working on a project, engineers and designers can get "tunnel vision", meaning they see what they want to see reflected in the



documents. All drawings and specifications issued by Miller Engineering go through a three step peer review internally to ensure the intent of the document is clearly transmitted. The final 100% construction document set will be issued to the owner for bidding, along with our best estimate of probable cost.

Bidding

During bidding, Miller Engineering will assist the owner to successfully procure bids for buildings 401 and 406. MEI will be present during the pre-bid meeting to discuss the technical scope of work for the project. Any technical questions from contractors or vendors to the owner during bidding will be answered by MEI. MEI will provide addendum documents as needed. MEI will also assist in reviewing bids and making recommendations to the owner. We have completed many projects through WV State Purchasing, and understand the requirements to successfully bid a project with the state of West Virginia.

Construction Administration

After bids are received and the contract awarded, MEI is not a firm that disappears until the final punch list. MEI will provide thorough construction administration (CA) services as agreed upon with the owner. We will be present for a construction kick-off meeting to make sure the project gets off on the right foot. MEI believes in being present at construction progress meetings and making informal site visits to keep the project on track. Our background in construction and operations allows us to understand the sequencing of construction in the field to better aid the contractors when questions arise.

One of MEI's main beliefs is that any requests for information (RFIs) submitted by the contractor should be reviewed and answered within one business day if possible. This is because we understand that delays in RFI responses can lead to additional costs and construction days. If necessary, we will provide an informal answer and follow up with the formal response to keep the project rolling. During progress meetings and site visits, any issues discovered by MEI will be relayed to the owner and contractor immediately to prevent delays. Another company standard is for our staff to be present for testing and balancing (TAB), equipment start-up, and owner training. While these events occur at the very end of the project, they are critical to ensure the new systems operate as designed. MEI will be on hand for these activities to quickly answer any questions and confirm these items are performed properly in accordance with the construction documents.



TAB 5 – PROJECT FORMS





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

State of West Virginia
 Centralized Expression of Interest
 02 – Architect/Engr

Proc Folder: 700461

Doc Description: Addendum No 1 - Camp Dawson Airfield Support Facilities

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-03-23	2020-04-15 13:30:00	CEOI 0603 ADJ2000000007	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.yle@wv.gov

Signature X

FEIN #



DATE 4/9/2020

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI ADJ200000007

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that 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.

Miller Engineering, Inc
Company

Authorized Signature
4/9/2020
Date

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

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.



(Name, Title)

Craig Miller, PE - President

(Printed Name and Title)

429 Laurel Run Rd Carmichaels, PA 15320

(Address)

(304) 291-2234

(Phone Number) / (Fax Number)

cmiller@millereng.net

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation 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 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 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.

Miller Engineering, Inc.

(Company)



(Authorized Signature) (Representative Name, Title)

Craig Miller, PE - President

(Printed Name and Title of Authorized Representative)

4/9/2020

(Date)

(304) 291-2234

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Miller Engineering, Inc

Authorized Signature: [Signature] Date: 4/9/2020

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 9th day of April, 2020.

My Commission expires September 16, 2024.

AFFIX SEAL HERE



NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 01/19/2018)