



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

Header 1

List View

- General Information**
- Contact
- Default Values
- Discount
- Document Information
- Clarification Request

Procurement Folder: 1218684
 Procurement Type: Central Purchase Order
 Vendor ID: 000000229419
 Legal Name: MILLER ENGINEERING INC
 Alias/DBA:
 Total Bid: \$0.00
 Response Date: 05/08/2023
 Response Time: 11:15
 Responded By User ID: MillerEngineer1
 First Name: Travis
 Last Name: Taylor
 Email: ttaylor@millereng.net
 Phone: 304-291-2234

SO Doc Code: CEOI
 SO Dept: 0603
 SO Doc ID: ADJ2300000003
 Published Date: 4/25/23
 Close Date: 5/9/23
 Close Time: 13:30
 Status: Closed
 Solicitation Description: USPFO (Buckhannon) Restroom Renovations EOI
 Total of Header Attachments: 1
 Total of All Attachments: 1



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

**State of West Virginia
 Solicitation Response**

Proc Folder: 1218684
Solicitation Description: USPFO (Buckhannon) Restroom Renovations EOI
Proc Type: Central Purchase Order

| Solicitation Closes | Solicitation Response | Version |
|---------------------|------------------------------|---------|
| 2023-05-09 13:30 | SR 0603 ESR05082300000005658 | 1 |

VENDOR
 000000229419
 MILLER ENGINEERING INC

Solicitation Number: CEOI 0603 ADJ2300000003
Total Bid: 0
Response Date: 2023-05-08
Response Time: 11:15:58
Comments:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
 304-558-0067
 david.h.pauline@wv.gov

Vendor Signature X **FEIN#** **DATE**

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

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|---|-----|------------|------------|-----------------------------|
| 1 | USPFO (Buckhannon) Restroom Renovations EOI | | | | 0.00 |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 81101508 | | | |

Commodity Line Comments:

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.



Expression of Interest
West Virginia – Army National Guard
USPFO Buckhannon Restroom Renovations
Buckhannon, WV
CEOI ADJ2300000003
May 09, 2023



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

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A Letter from Our Owner

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The Miller Engineering Difference



We are very pleased to submit our response for the Buckhannon USFPO Restroom Renovations. We have elected to submit as prime as our understanding from the Expression of Interest is that the project is focused on shower & restroom design. MEI has operated in this role many times before, including recent WVARNG projects Mill Point Canopy, Camp Dawson FMS 4 Fire Protection, Camp Dawson Operations Building HVAC Renovations, and the nearly completed Bridgeport FWAATS Restroom Renovations. We have also served as the prime consultant on many other projects for various clients and state agencies.

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 renovation we do requires a phased approach to keep the facility in operations. We routinely deliver phased renovations for educational, institutional, commercial, and government facilities. 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 10 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.

While MEI's portfolio covers all types of construction, one of our niches is swimming facilities. We have consulted on many new and renovated swimming pools throughout the state. An important aspect of any swimming pool is the bathhouse facilities. These include restrooms and shower areas for guests. Many times, MEI has been tasked with updating the bathhouse facilities to meet current ADA guidelines. We have become quite familiar with the requirements of constructing compliant and maintainable restroom and shower facilities. To further assist with meeting the project requirements in regards to the shower facility footprint, MEI will team up with Montum Architecture to provide architectural support. MEI and Montum have been on design teams for the completed Berkeley Springs Old Roman Bathhouse and various bathhouse facilities for campgrounds at multiple WV State Parks. Montum was our architectural consultant on the Bridgeport FWAATS project. FWAATS, which has a very similar scope of work to this project, which had expedited design to satisfy federal funding

requirements. Montum played a critical role in providing options for suitable floor plans to meet the requirements of the FWAATS and WVANG staffs needs.

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.

I would like to personally thank you for affording Miller Engineering the opportunity to propose on the Buckhannon USPFO Restroom Renovations project and we look forward to the chance to discuss the project in an interview.

Best Regards and Good Luck on the Project,



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



TAB 1 –FIRM QUALIFICATIONS





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 14 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 Administration

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

Communication System

- Intercomm & Public
- AddressVoice/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





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
- WVANG Bridgeport FWAATS Restroom Renovations
- WVDNR Twin Falls State Park Recreation Facilities
- Advanced Surgical Hospital
- Camp Dawson FMS4 Fire Protection
- 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



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

- WVANG Bridgeport FWAATS Restroom Renovations
- Berkeley Springs Old Roman Bathhouse
- Camp Dawson FMS4 Fire Protection
- WVANG Jackson County AFRC Canopy
- WV State Building 25 (Piping, HVAC, Lighting)
- Hawks Nest Lodge Renovations
- Blackwater Falls Lodge Renovations
- 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, Maryland
- OSHA 10-hour Course: Construction Safety & Health



Tyler Trump

Tyler joined Miller Engineering in August 2022. A recent graduate of West Virginia University, he has been eager to learn the means and methods of MEP consulting. Tyler assists the MEP design team with design calculations and is rapidly learning design software such as Autodesk REVIT and Hourly Analysis Program by Carrier. He is also learning construction administrations along with building, electrical, and plumbing codes and standards. Tyler 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

- Cass Scenic Railroad State Park Campground
- Lost River Campground
- Mountain Line Transit Authority Office Renovation
- WV Building 25 Lighting Upgrades
- Ronald McDonald House Morgantown Addition & Renovations
- McKeever Lodge Boiler Replacement

Professional History

2022- Present Miller Engineering, Inc. MEP Designer

Education

2022 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

Staff – Qualifications and Experience



Jack Jamison

Jack brings 20 years as an electrical/building inspector and over 25 years of experience in the commercial electrical construction industry. His knowledge and experience are valuable resources to Miller’s complete assessment process.

Project Role: Master Code Official

- *Facility Review, Code Research, Field Observations, Issue Resolutions, and Project Evaluation*

Professional History

| | | |
|---------------|---------------------------------|----------------------------------|
| 2010- Present | Miller Engineering, Inc. | Code and Construction Specialist |
| 1999-2010 | Megco Inspections | Chief Inspector |
| 1972-1998 | Jamison Electrical Construction | Master Electrician |

Education

1971 Fairmont State College, BS-Engineering Technology-Electronics

Licenses and Certifications

- Master Code Professional, IAEI Master Electrical Inspector, Class C Electrical Inspector – WV, PA, MD, & OH
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- WV Master Electricians License
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course: General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition

Montum Architecture, LLC Firm Profile

Who We Are.

Montum Architecture, LLC was founded in 2017 to provide architectural design and consulting services. Montum Architecture is a Limited Liability Corporation filed in the state of West Virginia. The company is also registered in the State of Maryland as a foreign LLC. Montum is staffed by a licensed principal architect and a design professional. They work manage projects together, from conceptual to construction administration, allowing the utmost coordination of building plans and specifications with minimal potential for miscommunication.

Our Services

| | |
|--------------------|-------------------------|
| Government | Planning |
| Institutional | Building Assessment |
| K-12 schools | Architectural Detailing |
| Higher Education | Specification Writing |
| Multi-Dwelling | Contract Administration |
| Medical | Design/Bid/Build |
| Retail | Renovation |
| Emergency Services | Renderings |
| Automotive | Life Safety Evaluations |
| Financial | Design/Build |
| Warehouse | Project Management |

Why Choose Us.

Communication

Tom Pritts will be the primary point of contact for Montum's architectural services. Montum will manage communication with the Owner, Contractor, and sub-consulted team of members on this project.

Project Budget

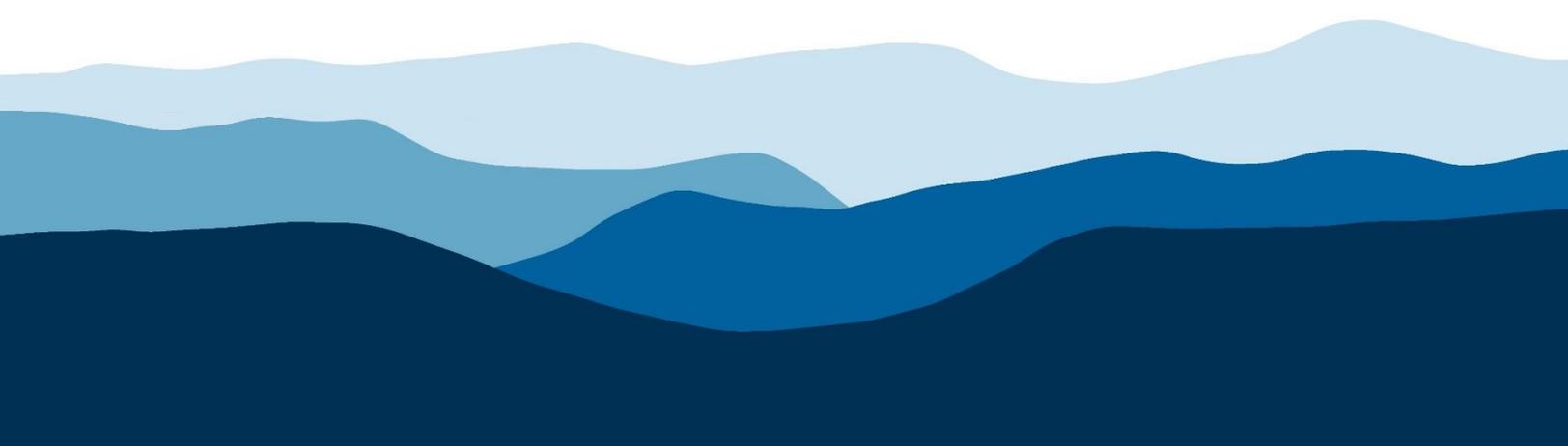
Previous work experience has shown a consistent +/-2%bid-to-budget ratio.

Project Schedule

Montum will monitor and adjust the design tasks in order to complete the design work in 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. Existing condition documentation includes drone imaging, 360 camera shots, and handheld LiDAR telemetry.





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

Tom founded MontumArchitecture in 2017. He has more than 15 years experience in design, specification, and project management. During his former employment, Tomhas 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 |
|------|---------------|---------------------------|

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)

- 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 VolkswagenAutomotive 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



Jordyn Henigin, M.Arch

Jordyn joined Montum Architecture in May 2020. A recent graduate of Fairmont State University, She has been eager to enhance her skills in the business field and develop a stronger knowledge of architectural design principals and methods. Jordyn is in the process of perusing her goal to become a licensed Architect.

Project Role: Design Professional

- Concept and Construction Design
- Building Information Modeling – Revit
- Architectural Rendering - Lumion

Professional History

| | | |
|---------------|---------------------|---------------------|
| 2020- Present | Montum Architecture | Design Professional |
|---------------|---------------------|---------------------|

Education

| | | |
|------|---------------------------|---------------------------|
| 2020 | Fairmont State University | Bachelors of Architecture |
| 2022 | Fairmont State University | Masters of Architecture |

Licenses and Certifications

- LEED-Green Associate
- 30-hour OSHA Card

Associations and Memberships

- Assoc. AIA

Professional Project Highlight

- Watters Smith State Park, Lost Creek WV
- Mon Co Schools Transportation Addition, Morgantown WV
- Jackson Co ARFC Wash Bay, Millwood WV
- BUMFS Staggers Recovery, Burlington WV
- BUMFS Knobley Rehab, Burlington WV
- Aging & Family Services of Mineral County - Keyser Senior Center, Keyser WV
- Mineral County Detention Center, Courthouse, and Annex addition and renovations, Keyser WV
- New Covenant UMC, Cumberland MD
- Larenim Park Amphitheater, Burlington WV
- Building 25 HVAC, Parkersburg WV
- WVGSD Elevator Modernizations
- Westside HVAC and Roof, Clear fork WV
- Ed Kelley Memorial, Keyser WV
- Cass Campground, Cass WV
- Waxler Warehouse, Keyser WV
- Greenbrier SF Headquarters, White Sulphur Springs WV
- FWAATS, Bridgeport WV

Staff – Licenses & Certifications

Attached is your wallet card, evidence of your current registration to practice architecture in West Virginia. You will receive a renewal notice prior to the expiration date indicated.

| | |
|--|-----------|
| Certificate No: 4049 | |
| STATE OF WEST VIRGINIA BOARD OF ARCHITECTS | |
| This Certifies that: | |
| THOMAS PRITTS | |
| is duly Registered and entitled to practice as a REGISTERED ARCHITECT until and including 06/30/2022 | |
| Attest | President |

CERTIFICATE OF Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers hereby certifies that the person to whom this certificate is registered in West Virginia is a professional engineer for the state of, hereby certifies

MILLER ENGINEERING, INC.
C02108-00

Engineer in Responsible Charge: BRIAN C. MILLER - WV PE #015184

In compliance with section 8-2-22 of the West Virginia Code governing the issuance of a Certificate of Authorization, the Board hereby certifies you of its compliance with issuance of this Certificate of Authorization for the period of

January 1, 2022 - December 31, 2023

pending for the practice of engineering services in the State of West Virginia.

IF YOU ARE REGISTERED TO REGISTER WITH THE BOARD OF PROFESSIONAL ENGINEERS, PLEASE VISIT OUR WEBSITE FOR MORE INFORMATION.

ON FEBRUARY TWENTY-THREE, 2022, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS REVIEWED THE APPLICATION OF BRIAN C. MILLER, WV PE #015184, AND HAS GRANTED HIM A CERTIFICATE OF AUTHORIZATION TO PRACTICE ENGINEERING IN THE STATE OF WEST VIRGINIA.

Richard S. Thompson
BOARD PRESIDENT

West Virginia State Board of Registration
for Professional Engineers

BRIAN C. MILLER
WV PE #015184

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, 2024

West Virginia State Board of Registration
for Professional Engineers

TRAVIS W. TAYLOR
WV PE #020244

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, 2024

Hereby Certifies that

Jack E. Jamison, Jr.

has demonstrated professional qualifications through a written examination based on the National Electrical Code® along with successful completion of field practice and documented expertise in required categories and has hereby achieved certification as

Master Electrical Inspector

Effective through
September 30, 2013

Certification Identification No.
CB1-M-187

David J. Jamison
Secretary to the Executive Board
International Association of Electrical Inspectors



TAB 2 – PROJECT ORGANIZATON



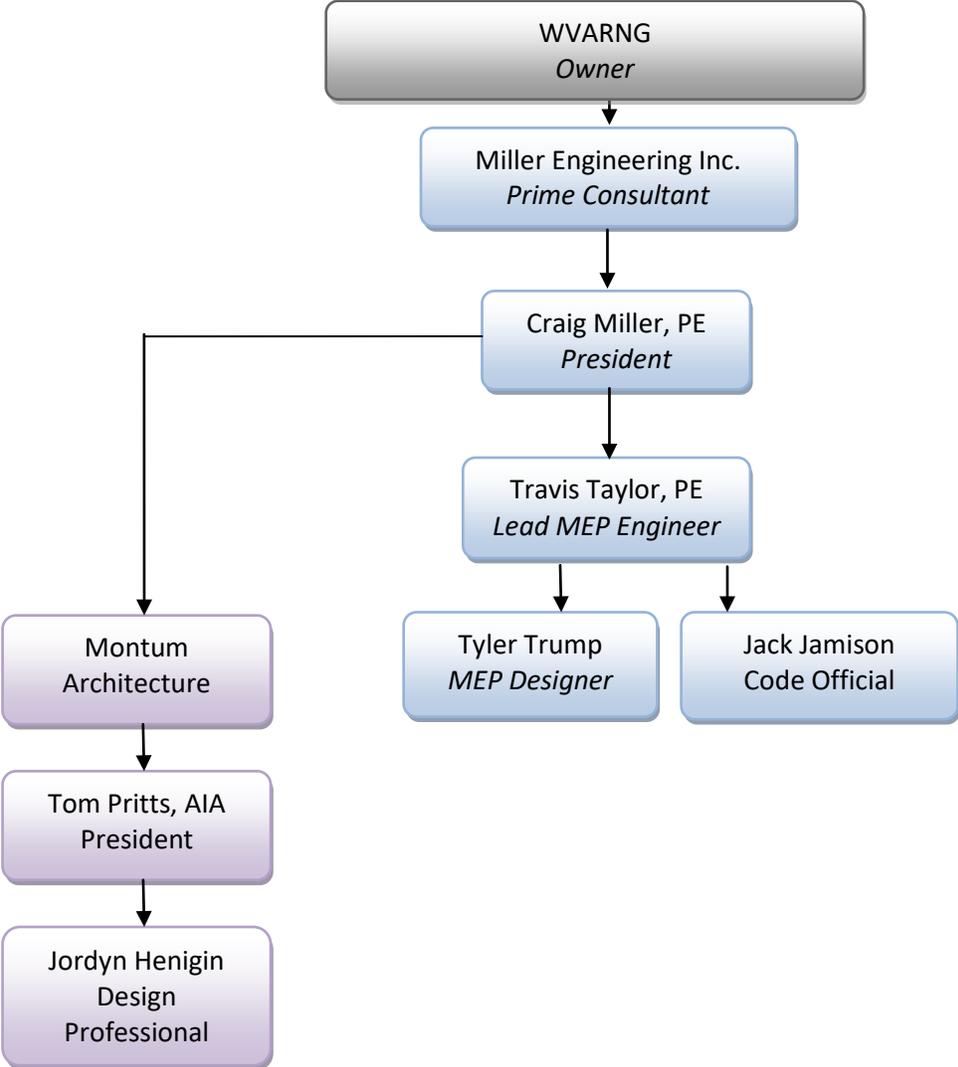
MILLER ENGINEERING

| | |
|--------------------------|--------------------------------|
| <u>Craig Miller, PE</u> | President, Principal in Charge |
| <u>Travis Taylor, PE</u> | Lead MEP Engineer |
| <u>Tyler Trump</u> | MEP Designer |
| <u>Jack Jamison</u> | Master Code Official |

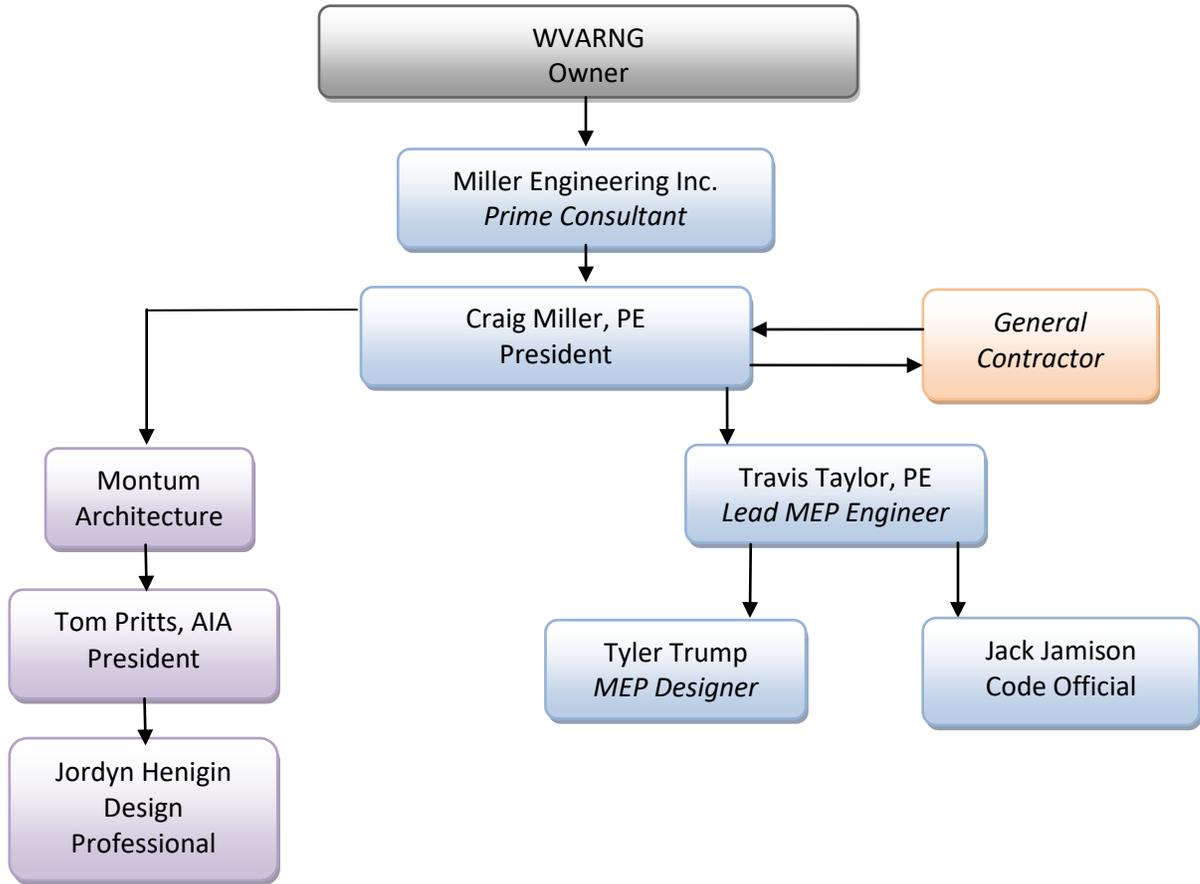
MONTUM ARCHITECTURE

| | |
|------------------------|---------------------|
| <u>Tom Pritts, AIA</u> | Architect, Owner |
| <u>Jordyn Henigin</u> | Design Professional |

Organization Chart -Design



Organization Chart – Construction



Descriptions of Past Projects Completed – New Construction

WVANG Bridgeport FWAATS Restroom Renovations

Bridgeport, WV

Services Provided:

- Renovation
- MEP Renovation
- Construction Administration

Construction Cost: \$1M

Facility Area: 1,400 ft²

Owner: WVANG



MEI designed locker room and restroom renovations to the Bridgeport Fixed Wing Army Aviation Training Site (FWAATS). Montum Architecture was utilized to prepare renovated floor plans for two locker / shower rooms and two restrooms. The goal was to renovate the spaces to meet ADA guidelines and improve efficiency and utilization of the areas. MEI designed renovations to the plumbing, lighting, fire alarm, fire protection, electrical, and HVAC systems to accommodate the changes to the floor plans. The existing boiler was replaced with two, high efficient, modulating boilers. The flooring on the first floor was also replaced under this project. The construction is wrapping up with an anticipated completion in May 2023.

Project Contact:

Jim Skaggs

WV ANG

(304) 561-6550

Descriptions of Past Projects Completed – MEP

Pipestem Plaza

Services Provided:

- Electrical
- Fire Alarm
- Plumbing
- HVAC
- Accommodation of Existing Systems

Estimated Budget: \$2.2M

Facility Area: 63,000 ft²

Owner: West Virginia Division of Natural Resources



The Pipestem lodge has an outdoor plaza which is above the pool locker rooms and support areas. The plaza concrete deck system has failed, allowing water to damage the structure and the spaces below. The locker rooms and indoor pool were served by a single air handling unit which failed and never handled humidity well. The plaza, along with the locker rooms below, were completely renovated with modern plumbing fixtures and changes to meet ADA requirements. New LED lighting was installed to serve the locker rooms. MEI designed a HVAC solution using a dedicated MAU and exhaust system to serve the indoor pool to provide conditioned air and humidity control. The lockers and adjacent areas were served with fan coil units. All of the new HVAC equipment had chilled and hot water coils tied into the main building loop piping designed by MEI under a previous project. Other improvements include updates to the fire alarm system.

Project Contact:
Carolyn Mansberger, Project Manager
State Parks Section
(304) 558-2764

Pipestem State Park – Sprayground and Existing Pool Demo

Pipestem State Park

Pipestem, WV

Services Provided:

- Aquatic Design
- Plumbing
- Electrical
- Mechanical
- Demolition MEP

Cost: \$2.49M

**Owner: West Virginia
Division of Natural
Resources**

Status: Completed



The pool at Pipestem had ongoing concerns for a number of years. Age, condition, piping, and the original design had led to continuous operational problems. The pool was originally constructed as part of a larger, integral, recreation facility that presented problems for both maintenance and repairs. The use of the deck as a roof for spaces below resulted in ongoing issues for both.

As part of a larger team effort, MEI evaluated the facility and recommended partial demolition and replacing the pool. Based on the local population, the capacity of the park facilities, and the budget; the recommendation was to replace the pool with an interactive sprayground. This facility is more strategically located close to the lodge and includes a pedestrian bridge and restroom/ bathhouse for park guests. The water treatment utilizes the latest in disinfection technology to protect users.

A new bathhouse was built to house the sprayground equipment, office, and ADA accessible restrooms & showers.

Project Contact:
Bradley S. Leslie, PE, Chief (ret)
State Parks Section
(304) 389-7663

Descriptions of Past Projects Completed – MEP, Pool

Twin Falls Resort State Park Sprayground & Golf Pro Shop

Mullens, WV

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Pool

Owner: WV DNR



MEI worked with Chapman Technical Group to design the replacement of the Pro Shop for the golf course and the construction of a new bathhouse and sprayground at Twin Falls Resort State Park. Both facilities required bringing power and telecommunications from the lodge and coordinating with utility companies. The pro shop includes retail space, offices, and locker room / shower rooms. The sprayground is made up of fifteen separate features and includes a pre-fabricated enclosure to house the filters, pumps, and controls for the sprayground features, which are activated via touch sensor panels. The bathhouse includes men's and women's restrooms and showers and a ticket office with future provisions of a small concession area. The project is currently under construction with an anticipated completion in May 2023

Project Contact:
Roger Wolfe
WV DNR
(304) 885-6100

Project Experience – Beach and Bathhouse

Tygart Lake State Park

Grafton, WV

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Commercial Kitchen Update
- Construction Administration

Estimated Budget: \$995k

Facility Area: 4 acres

**Owner: West Virginia Division of
Natural Resources**



Previously the beach area was nothing more than a concrete slab prone to algae infestation creating a slip hazard. Paths and recreation areas were ill-defined, lacking clear flow or direction and did not contribute to natural surroundings. After a site review, an overall plan was developed by Miller Engineering and is now a successfully completed project. The State Park is a popular recreation destination for Morgantown area residents. The beach area and access, volleyball, horse shoe, grilling and bath house were all renovated. The kitchen received code compliant updates and additional electric capacity to add a concession stand in the future.

Project Contact:

*Bradley S. Leslie, PE, Assistant Chief
WVDNR State Parks Section
Phone: (304) 558-2764*

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

Montum



Before



After

Berkeley Springs State Park Old Roman Bathhouse renovations

Description of Project:

West Virginia Division of Natural Resources contracted Montum Architecture to design repairs and improvements to the Old Roman Bathhouse at Berkeley Springs State Park. The structure was built in 1815 with various changes and updates since then. Work includes repairs to the tub structure and plumbing, replacement of the boiler, floor tile replacement, and other updates to fit and finish.

Construction Cost

\$782,800

Project Size

2,500 SF Renovated

Project Location

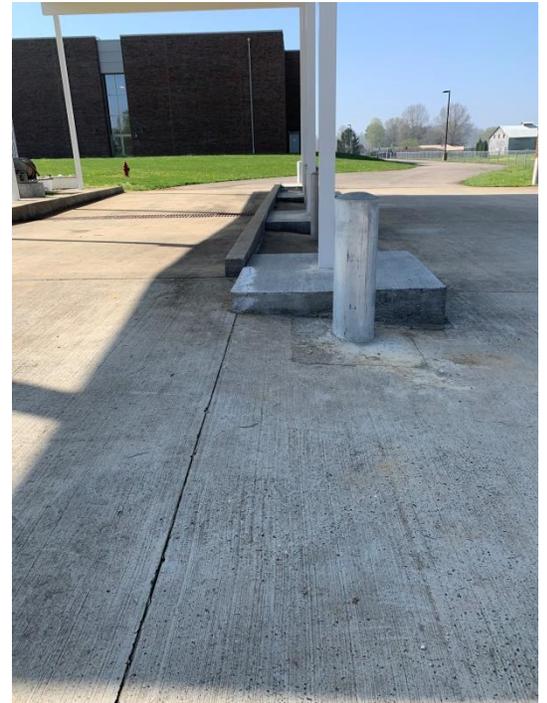
Berkeley Springs, WV

Construction Completion

Spring 2020

Contact

Carolyn Mansberger
DNR Project Manager
304-558-2764



Jackson County Armed Forces Readiness Center Wash Bay Canopy

Description of Project:

MEI and Montum Architecture teamed up to design a new canopy over the wash bay area in the Jackson County Armed Forces Readiness Center. The goal from the WV Army National Guard is to reduce the amount of rainwater draining through the wash bay into the oil/water separator. A new custom manufactured metal canopy was assembled and installed on site by the contractor. New structurally reinforced piers were formed in place and installed to support the new canopy. The rainwater runoff from the canopy roof is collected and routed internally down the posts integral diverters.

Construction Cost
\$255k

Project Size
N/A

Project Location
Mill Point, WV

Construction Completion
April 2022

Contact
Jim Skaggs
WVANG
(304) 561-6550



Mineral County Commission

Facility Renovations and Additions

Description of Project:

The Mineral County Commission operates three primary buildings at the Courthouse Complex which are the Courthouse, the Judicial Annex, and Sheriff Building. Additional office space is provided via a second-story addition to the Sheriff Building with elevator access. The Courthouse gains a security checkpoint vestibule, egress stair, and elevator access to all three existing floors. The Judicial Annex improvements include the fitout of the existing second floor, an addition of a security checkpoint vestibule, egress stair, and elevator. The project includes fire alarm and sprinkler system installations for code compliance. The existing courthouse and annex structures are under the purview of the State Historic Preservation Office. Section 106 approvals were gained before construction began.

Construction Cost
\$8.5 Million

Project Size
40,000 SF Existing
10,500 SF New

Project Location
Keyser, WV

Construction Completion
Spring 2025

Contact
Luke McKinzie
County Coordinator
304-788-5921

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>Roger Wolfe <i>Project Engineer</i> <i>WV Division of Natural Resources</i> <i>1000 Conference Center Drive</i> <i>Logan, WV 25601</i> (304) 885-6100 roger.c.wolfe@wv.gov</p> | <p>Jim Skaggs <i>Technical Analyst</i> <i>WVARNG – Division of Engineering & Facilities</i> <i>1707 Coonskin Dr.</i> <i>Charleston, WV 25311</i> 304-561-6550 Robert.a.skaggsii.nfg@army.mil</p> | <p>Cindy Fisher <i>Procurement Administrator</i> <i>WV Dept. Of Agriculture</i> (304) 558-2221 cfisher@wvda.us</p> |
| <p>Bob Ashcraft <i>Safety and Ancillary Projects</i> <i>Monongalia County Schools</i> <i>533 East Brockway Street</i> <i>Morgantown, WV 26501</i> (304) 657-4079</p> | <p>Dave Parsons <i>Energy Program Manager</i> <i>WV General Services</i> <i>112 California Avenue</i> <i>Building 4, 5th Floor</i> <i>Charleston, WV 25305</i> (304) 957-7122 David.K.Parsons@wv.gov</p> | <p>Richard J. Briggs <i>Vice President</i> <i>Lutz Briggs Schultz & Assoc. Inc.</i> <i>239 Country Club Drive</i> <i>Ellwood City, PA 16117-5007</i> (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 related to the Buckhannon USPFO facility. Reviewing documents will give MEI an initial understanding of the facilities which will be confirmed or adjusted through an extensive on site evaluation of the facilities. Evaluations of both existing documents and site visits will allow the design team to create initial building models. MEI will utilize building information modeling (BIM) via Autodesk REVIT to create models and therefore drawings of the facilities' areas of impact.

Schematic

Once the BIM models are accomplished, 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. MEI will discuss items which will affect the renovation including changes in building usage, current deficiencies and issues, operating methods, operating costs, and construction timeline phasing. MEI will coordinate with Montum Architecture to determine the scope required to meet ADA guidelines. MEI & Montum will work with the Owner to determine a floor plan which is ADA compliant, maximizes the Owner's usage of the existing space, and meets budget & schedule requirements. MEI and Montum will communicate to determine a phased sequence as the renovations will likely involve a partial loss of restroom and shower facilities at the USPFO Office. Miller Engineering's staff has backgrounds in construction, maintenance, and operations which provide a unique perspective as we do not just think "Will it work?" but also consider "How will it be installed?" and "How well can it be maintained to work as intended?" A majority of MEI's past projects include renovations which must be phased as the owner still occupies the facility. MEI will work with the owner to determine the maximum amount of facilities can be taken out of service at one time and the duration of these outages. These ramifications, in addition to any occupancy disruptions anticipated, would be discussed with the owner. 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 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 the upgrades. 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





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

State of West Virginia
 Centralized Expression of Interest

| | | | |
|---|----------------------------|-------------------------|---------------------------------|
| Proc Folder: 1218684 | | | Reason for Modification: |
| Doc Description: USPFO (Buckhannon) Restroom Renovations EOI | | | |
| Proc Type: Central Purchase Order | | | |
| Date Issued | Solicitation Closes | Solicitation No | Version |
| 2023-04-25 | 2023-05-09 13:30 | CEOI 0603 ADJ2300000003 | 1 |

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

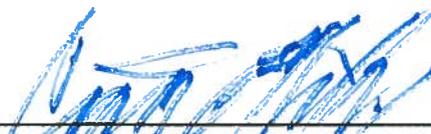
City :

State : **Country :** **Zip :**

Principal Contact :

Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER
 David H Pauline
 304-558-0067
 david.h.pauline@wv.gov

Vendor Signature X  **FEIN#** -1386 **DATE** 5/8/2023

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

Date Printed: Apr 25, 2023 Page: 1 FORM ID: WV-PRC-CEOI-002 2020/05

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

(Printed Name and Title) Craig Miller, PE - President

(Address) 54 West Run Rd. Morgantown, WV 26508

(Phone Number) / (Fax Number) (304) 291-2234

(Email address) cmiller@millereng.net

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

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

Miller Engineering, Inc.

(Company)

(Signature of Authorized Representative)

Craig Miller, PE - President

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

(304) 291-2234

(Phone Number) (Fax Number)

cmiller@millereng.net

(Email Address)