



Expression of Interest
WV Schools for the Deaf and the Blind
CEOI 0403 DBS1700000001
June 22, 2017



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

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MU Purchasing Division



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The Miller Engineering Difference



When people ask me what it is exactly we do here at Miller Engineering, I like to explain our craft as “the stuff that makes people’s eyes roll into the back of their heads when we go into detail”. Our work isn’t exciting or pretty – it’s the behind-the-scenes stuff that makes the pretty, exciting facilities functional – but we know we’ve done the job right if no one knows we were ever there.

I founded Miller Engineering in 2002 when, after 6 years working for West Virginia University and 20 years spent in facilities operation and maintenance, I decided it was time to provide a solution that was different by design. 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. It’s an improved process that, in short, helps owners and their staffs effectively operate and maintain their systems. We want to set up our clients to be self-sufficient, but we work to be available every step of the way.

Our hands-on staff takes great pride in their construction and operations backgrounds, which help us see the project as being constructed 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 public school systems in the state in the previous two years. We currently have a boiler replacement project under construction at Morgantown High for Monongalia County Schools. Travis Taylor, our lead engineer for the project, has managed electrical upgrades at your campus in his prior employment at Tri-County Electric. We have experience with the requirements and processes with state procurement, and can deliver a successful project from design through close-out and warranty. For this project, we have decided to team up with Tom Pritts, AIA of Montum Architecture LLC. Tom and I have successfully completed dozens of projects together over the previous 13 years. I would like to personally thank you for affording Miller Engineering the opportunity to propose on the HVAC and Life Safety Upgrades for West Virginia School for the Deaf and Blind.

Best regards,



Craig Miller
President/Owner
Miller Engineering, Inc.

WV School for the Deaf and Blind Concept

Concept:

The first step in addressing the concerns related to the HVAC and Life Safety Systems is evaluation. This will include discussions with the Owner concerning operational issues, review of programmatic needs and restrictions, and an on-site evaluation. Both MEI and Montum have worked extensively in the K-12 field. They also understand that the nature of this WVSDDB campus requires consideration of the unique safety concerns and logistics necessary.

Once the existing systems are evaluated, then a written report with recommendations will be prepared to serve as the basis of discussion of the scope of work with the Owner. There are certain items which, once the system is "touched" for renovation, must be addressed by code. The recommendations will be broken down with such items as "mandates" and others as "options". MEI and Montum will review these in detail with the Owner and utilize the Owner's decisions to prepare documents to competitively bid the renovation. The team will evaluate the bids as requested and will perform construction administration to implement the renovation.

MEI, with Montum as a sub consultant, will perform the project entirely unless major structural modifications were discovered to be necessary. MEI will be the sole contracting entity for the project.

MEI understands that the work product will become the property of the agency and may be used or shared. It is also our understanding that, with WV state law, such use results in indemnification of our firm for any outcomes related to use in this manner.

MEI has never had a vendor complaint filed against it. In the history of Miller Engineering, there have been no adverse professional regulatory assertions or actions against our firm. We have never been terminated from a contract, had any debarments, suspensions or sanctions from any state Board governing our services. MEI has been involved as a defendant in one litigation since its inception in 2003. The claim related to an asserted HVAC design deficiency which was never proven. The matter was settled by our insurance carrier; whose professional witnesses found our design to be in accordance with professional design standards.

Project Organization (Timing):

Our current work load is such that providing the services requested presents no concerns at this time.

Anticipated Schedule:

Evaluation - 4 weeks
Report and Recommendations – 4 weeks
Owner Review and Decisions - 2 weeks
Contract Documents – 8 to 12 weeks
Bidding – Assumes 8 weeks
Construction – TBD

Respectfully submitted this 22th day of June 2017.



**Craig Miller PE
President
Miller Engineering, Inc**



TAB 1 – Firm Profiles





Miller Engineering, Inc.

Firm Profile

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 13 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$20.1M in mechanical 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.*

Additional Benefits

- 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
- Interactive Solutions Provider
- Emergency Facility Response

Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction

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 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
Public Pools (indoor & outdoor)
Department of Parks & Recreation



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.

Communication

Tom Pritts will be the primary point of contact for Montum's architectural services. Montum will serve as a consultant to Miller Engineering 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.

Applicable Experience

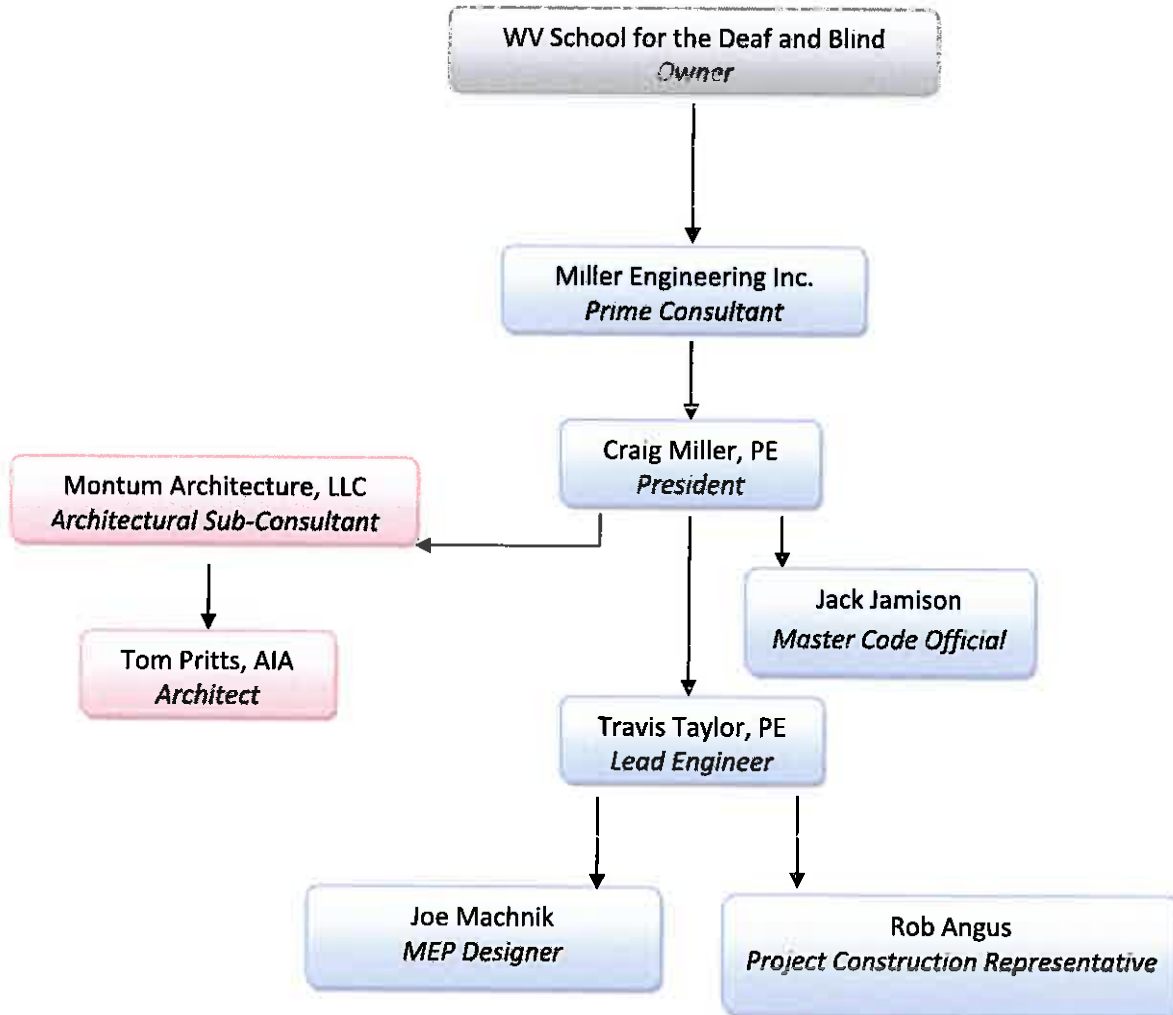
Tom Pritts has completed three new schools. Previous K-12 work also includes renovations, additions, and preparation of 10-year Comprehensive Education Facilities Plans. Miller Engineering has worked extensively with Tom on prior projects, including many K-12 projects. Due to the recent founding of the company, work experience is listed under the professional resume section.



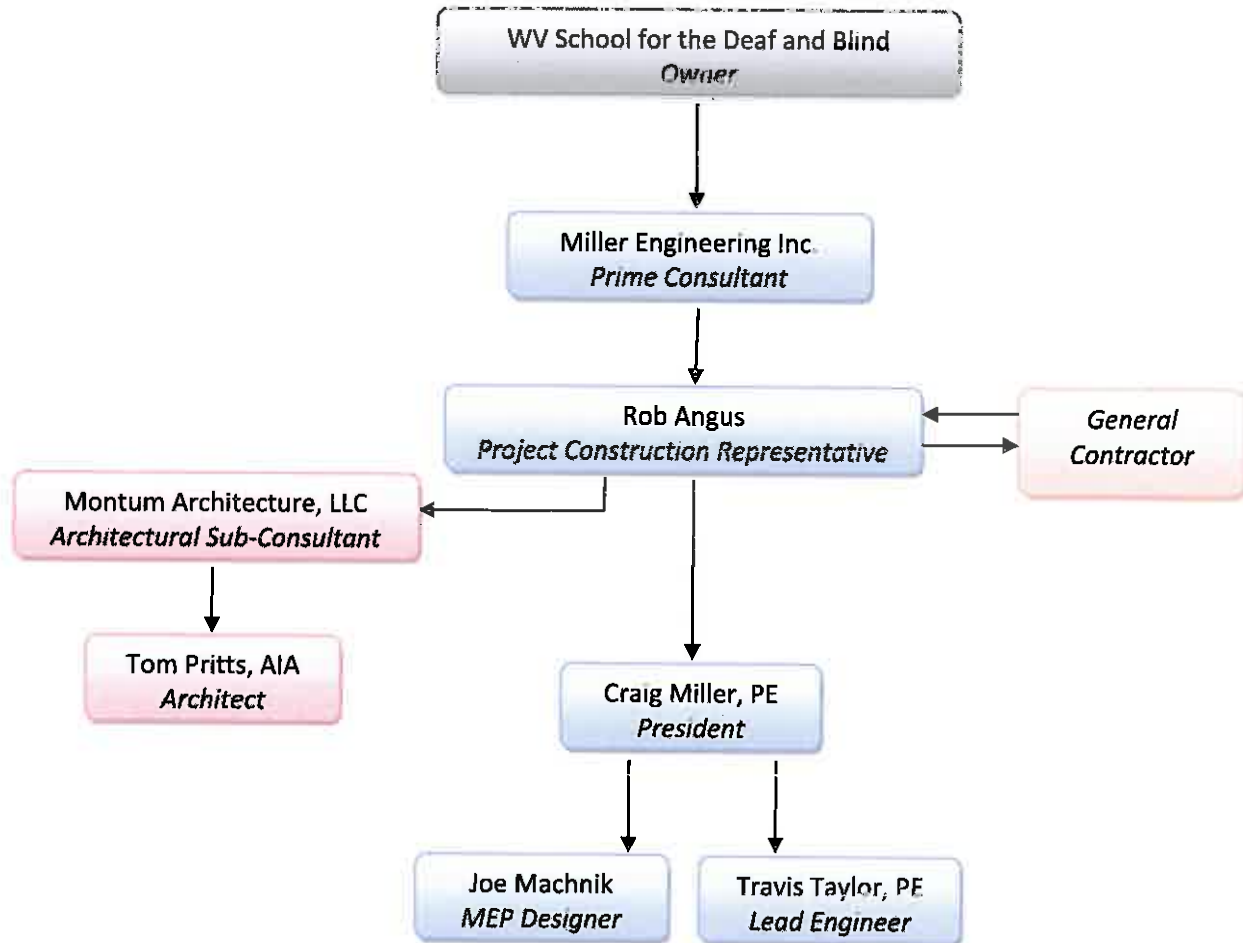
TAB 2 – Project Organization



Organization Chart – Design



Organization Chart - Construction





TAB 3 – Staff Qualifications and Experience





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 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

- *Bobtown Elementary HVAC*
- *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*
- *WV State Building 25 HVAC Piping Replacement*
- *WV State Building 36 HVAC Upgrades*
- *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. 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

- Suncrest Middle Gym HVAC
- MTEC Welding Shop
- North Elementary Gym HVAC
- WV State Building 36 HVAC Upgrades
- WV State Building 25 HVAC Piping Replacement
- 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



Robert Angus

20 Years of maintenance, operations, and construction management precede Rob's engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects. Rob's hands-on approach, common sense and valuable work history knowledge enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing and handling issues. Rob is involved at the estimation phase to allow for continuity within the project's design and construction.

Project Role: Construction Representative

- Construction Project Representation and Management
- Construction Administration
- Project Cost Estimation
- Submittal Review
- RFI, RFPCO Review and Response

Professional Project Highlights

- MTEC Welding Shop
- Cheat Lake Elementary HVAC Upgrade
- Suncrest Middle School Gym HVAC Upgrade
- North Elementary School Boiler/AC
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- 3RD Party Construction Observation – Canaan Valley Resort
- Hawks Nest/Twin Falls HVAC
- WVU Research Building Office Renovation

Professional History

2009- Present	Miller Engineering, Inc.	Project Construction Representative
2000-2009	Angus Contracting, LLC	Owner/Operator
1991-2000	BOPARC	Director of Maintenance

Education

2000	Monongalia County Technical Education Center	Heating, Cooling, and Refrigeration Certification
1996	West Virginia University	Recreation and Parks Administration

Licenses and Certifications

- Licensed West Virginia General Contractor
- Licensed West Virginia HVAC Contractor
- Certified HVAC Mechanical Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health

Staff – Qualifications and Experience



Jack Jamison

Jack brings 15 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



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*

Professional Project Highlights

- Bobtown Elementary HVAC
- WV State Building 25 HVAC Piping Replacement
- Suncrest Middle Gym HVAC
- North Elementary Gym HVAC
- WV State Building 36 HVAC Upgrades
- Westwood Middle Cooling Tower
- Pipestem Lodge HVAC Piping Replacement

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*



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

Tom founded Montum Architecture in 2017. He has more than 14 years experience in design, specification, and project management. During his employment with Alpha Associates, 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
- 30-hour OSHA Card

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 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



Professional Project Highlights (continued)

- 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
- Monongalia County Schools 2010 Comprehensive Education Facilities Plan
- Wyoming County Schools 2010 Comprehensive Education Facilities Plan

- Clear Mountain Bank, Oakland, MD
- Clear Mountain Bank, Reedsville, WV
- Clear Mountain Bank-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, WV
- 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



TAB 4 – Project Experience



Descriptions of Past Projects Completed – MEP

Morgantown High School HVAC Renovation

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Alarm

Estimated Budget: \$1.0M

Contract Amount: \$1.038M

**Owner: Monongalia County Board of
Education**

Status: In Construction



Morgantown High school, like others throughout the state, has seen many changes through the years. Previous upgrades shifted heating load away from the steam boiler plant, resulting in the plant being significantly oversized to the load and operating with low efficiency. The 40 year old boilers have exceeded their operational life and are experiencing reliability issues.

Previous projects installed split DX refrigerant based systems in several classrooms within the science and technology wing. These units are obsolete and require replacement with a more reliable system, which can meet current ventilation standards. Additionally, there are 3 classrooms, which are heating only with little or no control, that require addition to the overall solution for this section of the building. MEI has evaluated multiple options for resolving these issues, included a preliminary master plan for any space recovered in the replacement of the boilers with much higher efficiency models.

This project is scheduled to be complete in
Summer 2017.

Project Contact:

Bob Ashcraft

Monongalia County Facilities

Phone: (304) 276-0152

Descriptions of Past Projects Completed – MEP

North Elem. & Suncrest Middle Schools Gym HVAC Upgrades

Services Provided:

- Electrical
- Plumbing
- HVAC Design

Combined Budget: \$275k

Owner: Monongalia County Board of Education



Both of the gymnasiums at North Elementary School & Suncrest Middle School had no air conditioning, and were uncomfortable during school assemblies. MEI designed HVAC solutions to both schools under two separate projects. In both schools, MEI replaced existing heaters with new rooftop units. The existing ductwork was able to be re-used & modified, providing cost savings to the projects. MEI designed the new gym HVAC systems to be stand alone from the building heating & cooling system. This allows the schools to use the gyms for extra-curricular activities without conditioning the rest of the school, creating significant heating and cooling cost savings. Reports from both schools have been highly positive. We have received an "A" for our efforts.

Project Contact:

*Bob Ashcraft, School Safety Coordinator
Monongalia County Board of Education
Phone: (304) 276-0152*

Descriptions of Past Projects Completed – Fire Suppression

FMW Composites Building

Services Provided:

- Electrical
- Plumbing
- HVAC
- Fire Protection
- Fire Alarm

Estimated Budget: \$3.8M

Facility Area: 15,000 ft²

Owner: FMW Composite Systems



The facility's production process utilizes explosive hydrogen and propane requiring electrical, HVAC and plumbing systems to be explosion-proof. The project required extensive review of air movement (supply, exhaust, room-to room) within and outside the facility. The processes also use chemicals which can emit vaporous hydrochloric acid, requiring emergency ventilation systems. An extensive code review process was performed as well as design of a foam-based fire suppression system. A very intricate fire alarm and gas detection system was used to alert and notify occupants of hazardous situations. MEI worked with Alpha Associates to identify and provide proper life safety measures in the hazardous locations.

Project Contact:
Richard Colebank, PE
Alpha Associates
Phone: (304) 296-8216

Descriptions of Past Projects Completed – Fire Alarm

Pipestem McKeever Lodge

Pipestem, WV

Services Provided:

- Electrical
- Fire Alarm

Construction Amount: \$225k

Facility Area: 63,000 ft²

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

Status: Complete



The fire alarm at McKeever Lodge at Pipestem State Park was obsolete and having operational issues, particularly in the original lodge portion. Miller Engineering designed a complete fire alarm replacement of the lodge side, while interfacing with the conference center portion of the lodge, which had a more up to date fire alarm system. Previously, the lodge and conference systems operated separately, and MEI designed the systems to interface and monitor the lodge as one facility. The system was designed to interface with the conference side elevators, mechanical equipment, and kitchen hoods. Provisions for expansion were made for future upgrades to the lodge elevators. The lodge remained in operation during the entire replacement, with both the contractor and MEI coordinating with the DNR to minimize the amount of rooms taken out of service.

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

Project Experience: HVAC Upgrade

West Virginia State Building 25

Parkersburg, WV

Services Provided:

- Mechanical Piping
- Electric
- Construction Administration

Estimated Budget: \$843k

Facility Area: 58,500 ft²

Owner: State of West Virginia –
General Services Division



The PVC piping system at Building 25 had a history of leaking, along with smaller piping sagging over time and breaking, prompting the owner to replace the entire system. The building was a logistic challenge to design due to offset multi-level mezzanines, resulting in low deck-to-deck heights in the lower levels. A new, rolled-groove piping system was installed, including a new cooling tower and supporting structure, and connected to the original boilers. To eliminate the problems associated with manganese, which forms solids and clogs piping, the system was converted from water to propylene glycol with the flow rates adjusted to accommodate the change.

MEI designed a phased approach to accomplish the piping, which was adjusted in consultation with the owner and contractor during construction to minimize the impact on the building occupants, who remained in the building during the entire construction period. MEI worked on an almost daily basis with the contractor to accomplish the re-piping of the building, providing support and real-time answers to questions and to work around challenges.

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

Project Experience: HVAC Upgrade

West Virginia State Building 36 (1 Davis Sq.) Charleston, WV

Services Provided:

- HVAC System Replacement
- Mechanical Piping
- Electric
- Construction Administration

Estimated Budget: \$2.1M

Facility Area: 58,400 ft²

**Owner: State of West Virginia –
General Services Division**



The 30-plus year old chiller serving Building 36 failed in the spring of 2016. MEI was retained to design the installation of a temporary rental chiller, which remains in service at this time. MEI was then retained to design a full HVAC retrofit to the building due to the condition of the air handlers, ductwork, VAV boxes, and associated systems. The building presented unique challenges as it was originally two buildings in which the common space was later in filled to create one building. The deck to deck heights in some areas are very limited, resulting in the need for accurate evaluation, design, and detailing in the construction documents. MEI designed a phased approach to accomplish the project. The phasing was developed directly with the owner to minimize the impact on the building occupants; who had to relocate to swing space phase by phase. Instead of just replacing the existing system in-kind, MEI designed a system utilizing three rooftop units ducted vertically through the building, which eliminates the sole source failures that have plagued the system for several years. The project is ready for bid at this time.

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

Projects Budget Delivery 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

Project Name	Project Type	Contract Length	Contract Delivery	Notes
Blackwater Falls State Park	HVAC Upgrade	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	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



TAB 5 – Client References





What our satisfied customers have to say...

"I chose Miller Engineering because they are not a purely design-based firm. They have real world construction experience and the work ethic to ensure that the project is completed on time, on budget. I have confidence that my agency's interest is well served in design and in construction contract administration. I cannot say that about every firm I have worked with."

--Bradley S. Leslie, PE

"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) 558-2764 ext. 51823 Bradley.S.Leslie@wv.gov</i></p>	<p>Kerri J. Wade, MSW <i>Extension Agent - Kanawha County West Virginia University 4700 MacCorkle Avenue, SE Suite 101 Charleston, WV 25304 304.720.9573 Kerri.Wade@mail.wvu.edu</i></p>	<p>J. Douglas Carter <i>General Manager Potomac Valley Transit Authority 185 Providence Lane Petersburg, WV 26847 (304) 257-1414 jcarter@potomacvalleytransit.org</i></p>
<p>Bob Ashcraft <i>School Safety & Loss Coordinator Monongalia County Schools 533 East Brockway Street Morgantown, WV 26501 (304) 276-0152 rbashcraft@access.k12.wv.us</i></p>	<p>Mike Trantham <i>Program Administrator Senior WVU Environmental Health & Safety P.O. Box 6551 975 Rawley Avenue Morgantown, WV 26506 (304) 293-5785 Mike.Trantham@mail.wvu.edu</i></p>	<p>Richard J. Briggs <i>Vice President Lutz Briggs Schultz & Associates Inc. 239 Country Club Drive Ellwood City, PA 16117-5007 (724) 758-5455 lbsa@zoominternet.net</i></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 6 – RFQ Documentation



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.

Brian Craig Miller PEng
(Name, Title)

Brian Craig Miller PEng
(Printed Name and Title)

429 Laurel Run Rd
(Address)

Caenichuel's PA 15320
(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 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)

Brian Craig Miller PEng
(Authorized Signature) (Representative Name, Title)

Brian Craig Miller PEng
(Printed Name and Title of Authorized Representative)

20 June 17
(Date)

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

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: 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 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: 20 June 17

State of West Virginia

County of Taylor, to-wit:

Taken, subscribed, and sworn to before me this 20th day of June, 2017

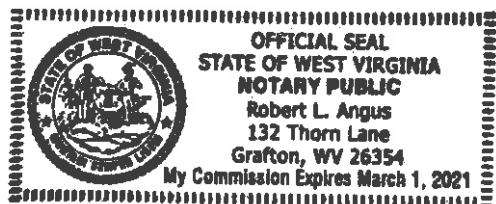
My Commission expires March 1, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 08/01/2015)



ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CE01 0403 BB 517002001

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 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.

Millier Engineering, Inc. / J.A. F.
Company
[Signature]
Authorized Signature
20 Jun 17
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012



240 Scott Ave, Suite #1
Morgantown, WV 26508

Department of Administration
Purchasing Division
2019 Washington St. E.
Charleston, WV 25305

SEALED BID: WV Schools for the Deaf and the Blind HVAC and Life Safety
BUYER: Jessica S. Chambers, Senior Buyer
Solicitation Number: CEOI 0403 DBS1700000001
Bid Opening Date: 6/22/2017
Bid Opening Time: 1:30 pm EST
FAX NUMBER: 304-558-3970