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Procurement Type:	Central Contract - Fixed Am	t		SO Dept:	0211	
Vendor ID:	000000229419	2		SO Doc ID:	GSD240000006	
Legal Name:	MILLER ENGINEERING INC			Published Date:	5/16/24	
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Response Time:	7:47			Solicitation Description:	EOI: Elevator Modernizations - Multiple Facilities Project	
Responded By User ID:	MillerEngineer1	*				lh.
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Last Name:	Taylor					
Email:	ttaylor@millereng.net					
Phone:	304-291-2234					



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:	1408333				
Solicitation Description:	EOI: Elevator Modernizations - Multiple Facilities Project				
Proc Type:	Central Contract - Fixed Amt				
Solicitation Closes		Solicitation Response	Version		
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VENDOR					
00000229419 MILLER ENGINEERING INC					
Solicitation Number:	CEOI 0211 GSD2400000006				
Total Bid:	0	Response Date:	2024-05-30	Response Time:	07:47:15
Comments:					

 FOR INFORMATION CONTACT THE BUYER

 Melissa Pettrey

 (304) 558-0094

 melissa.k.pettrey@wv.gov

 Vendor

 Signature X
 FEIN#

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

Date Printed: May 30, 2024

Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI: Elevator Modernizations - Multiple Facilities Project					0.00
Comm	Code	Manufacturer		Specifica	ition	Model #
8110150	08					

# Commodity Line Comments:

### **Extended Description:**

EOI: Elevator Modernizations - Multiple Facilities Project



# Expression of Interest West Virginia – General Services Division Elevator Modernization – Multiple Facilities Project CEOI 0211 GSD240000006

30May2024



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

304-291-2234 (ext. 102) | 429 Laurel Run Rd. Carmichaels, PA 15320 54 West Run Rd. Morgantown, WV 26508



# **The Miller Engineering Difference**



We are very pleased to submit our response for the WV General Services Elevator Modernization – Multiple Facilities Project. Since our inception, Miller Engineering has frequently performed services matching the needs and goals expressed in the solicitation, often as the prime consultant. We have a notable history of implementing documented recommendations from evaluation reports, to design through construction, and post warranty, with great success. Many projects have included evaluation of elevator systems in commercial and government buildings, including buildings with a historic context.

We are adept at integrating design into existing systems then bidding and performing construction administration on such projects, including separately bid & phased construction. Travis Taylor, PE will lead the team effort, with my assistance.

We have again teamed with Richard A. Kennedy & Associates Elevator Consultants, and Montum Architecture. Additions to the prior team include Arrow Structural Engineering, Atlantic Code Consultants Fire Protection Consultants, and MTC IT Consultants for the building modification portions of the project. The team brings a wealth of practical experience in elevator systems, building modifications, bid procurement, and construction administration. Miller, Kennedy, and Montum are currently completing two phases of elevator modernizations for GSD. Miller and Kennedy previously designed modernizations in such buildings as the Capital West Wing, Bldg. 3, Bldg. 5, Building 22 and the WV Supreme Court Storage Facility.

MEI, serving as prime, has performed many infrastructure and equipment related projects. This includes many projects similar to the goals expressed in the EOI. Kennedy is a nationally renowned fifty-year-plus elevator consultant. Some 15 years ago, he worked as a consultant and professional witness for WVGSD in an elevator based litigation; which was ultimately successful. As part of that work, Rick and his team evaluated most every elevator shown on the project phasing list and retains his knowledge of the issues and concerns. Montum has provided architectural support to the previous projects including historical work in the Capitol. Arrow, while new to our team, represent a depth of experience in structural engineering which dovetail with the other team members. ACC and MTC are new to the team but were selected for their experience and real world knowledge. We believe upgrades and renovations of this type are our team's forte and our commitment to doing them successfully shows through in each project we complete.

Prior to joining MEI some twelve years ago, Travis Taylor worked for a number of years as systems designer and project manager for a large electrical contractor supporting elevator renovations and installations, and now serves as lead engineer at MEI. While an engineer at WVU, I managed the elevator maintenance contract consisting of 135 elevators across multiple campuses and was highly involved in the renovations of elevators in many of WVU's historic buildings such as Woodburn Hall, Stewart Hall, Colson Hall, Oglebay Hall, high-rise buildings such as the Engineering Sciences Building, Towers Dorms and the high-capacity CAC stage lift. These renovations involved approvals by the WVU Historic

Preservation Committee and WV SHPO, to ensure the renovations both within the car and at the landings were made with minimal impact on the historic fabric of the building. Our working knowledge of elevator systems is based in real world operations as well as engineering design.

We're not your typical MEP firm; we ensure our designs meet very specific, timetested 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.

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". This is particularly important in occupied, phased projects where the needs of Owner are critical. We don't set 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 18 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 projects for WV General Services in recent years with great success. We believe our team has a unique knowledge of the elevator system types, history of the systems in questions, and the overall need; which will permit us to hit the ground running on the project. We have experience with the requirements and processes of state procurement, and can deliver a successful project from evaluation and design through bidding, construction, and close-out. I would like to personally thank you for considering the Miller Engineering team for the Elevator Modernization – Multiple Facilities Project and wish you luck in the endeavor.

Best regards,

Craig Miller President/Owner Miller Engineering, Inc.



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# TAB 1 – FIRM PROFILES & TEAM ORGANIZATION





# **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 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 14 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 Address Voice/Data/CATV Urgent Response

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

Facility Utilization Systems Assessment & Solutions Adpative 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



# 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. Montum is staffed by a licensed principal architect and a design professional. They manage projects together, from conceptual to construction administration, allowing the utmost coordination of building plans and specifications.

### **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 LiDAR telemetry.

# Richard A. Kennedy & Associates Elevator Consultants

1110 Independence Drive West Chester, PA 19382 rakelevator@aol.com Office 610-793-1372 Cell 484-802-9201 Fax 610-793-5093

May 27, 2024

Craig Miller, PE Miller Engineering 429 Laurel Run Road Carmichaels, PA 15320

RE: WV EOI GSD240000006

Dear Mr. Miller:

Richard A. Kennedy & Associates (RAK) expresses a sincere interest to partner with you on the subject proposed solicitation. RAK has provided elevator consulting services to the General Services Division of the state of West Virginia for a period of five years from 2003-2009. Currently, we are working with you on the modernization of the total elevator plant under Phase I & II of the main capitol and surrounding buildings. We have also performed a detailed study of many of the elevators outlined in the subject solicitation, previously designated as Phase III..

RAK requires all associates to maintain their current Qualified Elevator Inspector's certification (Q.E.I.) and yearly continuing education of elevator mechanic's training (C.E.T.) and state licensing. Our education and working knowledge of the most current safe practices and standards in the elevator industry.

We have a working knowledge of the issues and concerns faced in modernizing the elevators and are confident we can be of value to the Owner's design team as a review consultant.

RAK has performed complete elevator modernization consulting services in various capacities. A few of our past projects are submitted for review.

- State of West Virginia, Phase I Elevator Modernization Project Miller Engineering
- State of West Virginia, Phase II Elevator Modernization Project Miller Engineering

Craig Miller, P.E. WV EOI GSD2400000006 May 27, 2024 Page 2

- State of West Virginia Phase III Elevator Modernization Feasibility Study Miller Engineering
- State of West Virginia Elevator Modernization of Building 5 Miller Engineering

Additionally. RAK has performed similar reviews and has served as a professional witness for the elevator industry for over 40 years. These reviews, often including design and fabrication documents, subrogation matters employing many of the same skill sets required for this project.

We look forward to the opportunity to work with you again on behalf of WV GSD.

Respectfully, Richard A. Kennedy Principal



You want to hire a professional engineering company that can give you a strong end result for your next project. A trustworthy and dependable engineer. One to build a durable foundation, with impressive design work that can hold the pressures of its environment to keep you and your company or loved ones safe. This sentiment is the reason Arrow Engineering was founded by Mike Howell in 2016.

# Who We Are

Arrow Engineering is a structural engineering firm with a team who is dedicated to serving clients in the industrial, residential, and commercial markets.

# 3 promises we commit to with every project

- Rise above our client's expectations.
- Maintain exceptional knowledge of construction and design practices as experts in our field.
- Deliver high quality documents and communication that are both practical and detailed.

# **Arrow Engineering**

info@arwcg.com

www.arwcg.com

"Our strongest connections are with those who we serve, whose dreams we help build.

- Arrow Engineering Owner, Mike Howell



May 28, 2024

Craig Miller, PE Miller Engineering, Inc Morgantown, WV

Mountaineer Technology Consultants, LLC (MTC) is a widely recognized Managed Service Provider (MSP) serving clients from the entirety of West Virgina, across the East Coast, and into the Midwest.

MTC President and Founder Booker T. Walton III, has over 20 years of experience in the IT Field, from being a Field Technician, to running one of the two State of West Virgina Data Centers at West Virginia Network for Educational Telecomputing (WVNET), to owning and operating MTC.

Chief Information Officer Preston Smith has over 10 years of IT experience with both IBM, and now MTC. Manager of IT Operations Adrianna O'Neal has 5 years of IT experience with over 2 now with MTC. Our other employees support in both IT and Administrative ways the Mission Statement of MTC, which is stated simply, "To make IT easy, one person at a time. We aim to be West Virginia's trusted technology consultancy."

Our variety of services range from IT Help Desk and Support, Enterprise Networking and Management, Computer Rollout and Management, Anti Malware and Ransomware Protection and Mediation, Website Design and SEO Marketing, Credit Card Compliance, Computer Systems Audit Certification, VoIP Phone Systems, with many other tasks related to being a Full-Service MSP.

MTC currently manages over 300 professional clients and 1500 endpoints, setting the standard for IT Support and Cybersecurity in our field. Given this, it is no wonder MTC was recognized as the 2020-2022 Small Business of the Year by the Morgantown Area Partnership for excellence in business.

MTC stands ready to collaborate with Miller Engineering for any and all IT Services needed rendered as it relates to this bid.

Sincerely,

PORT T. WIL-18

Booker T. Walton III President MTC <u>booker@easyasmtc.com</u> (304) 296-1937

# **Organization Chart – Design Team**





# TAB 2 – GOALS



# WVGSD Elevator Modernization – Multiple Facilities Project Goals

# **PROJECT GOALS**

Miller Engineering has reviewed the project description under Section Three of the Expression of Interest and offers the following outline of project approach concepts, methodologies, core-values, and prior pertinent experience. Note that the project data sheets in section four (4) further describe many of the projects referenced in this section.

# **GOAL ONE – Survey and Assessment**

# TEAM ASSESSMENT EXPERIENCE

As can be seen in the resumes and information included in this proposal, the team has performed many similar projects in the past. As can be seen in the included resumes and data sheets, Miller, Kennedy, Montum, and Arrow have previously performed many like projects for GSD and other clients. Rick Kennedy, Craig Miller, John Dodds, and Matt Hollingshead have many years of experience of the type required by the project. The combined experience of these four individuals is in excess of 100 years and in the case of Rick and John, represent experience on thousands of elevator systems renovations. Harold Hicks, represents some 40 plus years of fire protection consulting and Booker Walton possesses over 20 years of IT consulting experience. Travis and Craig, along with Tom, Mike and the rest of the team will review and document the existing elevator supporting MEP, FA, FP, and Data systems.

# **EVALUATION**

Evaluation will be a three pronged approach. The first will be a review of the available data on the elevators, including services reports, inspection reports, and the previous evaluations by ourselves and others. The previous work at GSD showed the value of this records based approach prior to the start of field work as it flags areas of concern and code compliance. Secondly, we will perform field reviews of the elevators in question and document our findings related to them and the building systems supporting the elevators. The systems have to be evaluated based on current codes, with an eye to code changes that are pending, including adoption of IBC 2018 which affects elevators. Third, we will meet with the Owner and stakeholders to review any issues or concerns related to the elevators and incorporate those into a concerns/ goals matrix which will be the basis our of design efforts.

We will generate a written report (a sample report from previous GSD work on 10 elevators now included in this EOI is included in the addendum) with prioritized recommendations and initial budget numbers for each elevator system, putting costs to line items of immediate and future work. We will then review this report in detail with the Owner to further refine the system and budget priorities, forming implementation plan. From the plan, phasing will be determined both within individual buildings and for the overall project.

The report will identify concerns by elevator subsystem and make a recommendations as can be seen in this excerpt from the executive summary:

The building 6 elevator machines are original to the 1963 building and the previously replaced controllers are beyond life cycle. In Building 36, elevators #1 and #2, which were originally traction but made hydraulic in 1988, are obsolete. The hydraulic power units are in the original overhead machine room which is not advised or considered good industry practice. During the design phase, the possibility of returning elevators 1 and 2 to traction from hydraulic will need to be considered as part of their replacement for age and condition. Such a change may not be technically possible but doing so would increase operational efficiency and reduce maintenance costs over time. The Building 36 elevator #4 (freight) is of one the oldest in the GSD inventory at 70 plus years. It should have long since been replaced. The recommendation is to make it into an automatic service elevator, which would be the same cost or cheaper than trying to retrofit the existing freight to meet current standards. Building 36 elevator #3 and Building 88 elevator #1 are proprietary to the manufacturer. Replacement parts are obsolete. The Building 6 elevators were generally observed to be in poor condition and were receiving heavy maintenance for the age of the equipment; including heavy component repair. The critical issues for the machines are the effects of age, overall safety for riders and maintenance personnel, future serviceability, and the availability of replacement parts for the equipment. Elevators in building 6 are the most used in this phase.

This executive summary excerpt relates to the lack of a variance mechanism, which complicates resolving otherwise minor concerns for systems, shafts and machine rooms:

In the case of each system, the elevator machine rooms have some conditions which cause them not to conform to current codes, with several operating on both documented and undocumented variances (code waiver or accommodation for an old system). Variances can increase the liability for the state in the event of an incident. Additionally, the elevator inspectors we have spoken with say there is no precise mechanism at this stage to have a variance granted. Some hoistways have code concerns related to pinch hazards, lighting, drainage, and non-elevator systems being located in the hoistway.

This excerpt relates to the non-code and non-OSHA compliant access to the Building 6 elevators 1 - 4 machine room half height door, and the proposed solution:

Machine Room:

The machine room is a dedicated space common to elevators 1, 2, 3, and 4. It is reasonably sized for the equipment it contains and has sufficient clearances. The

floors require grinding and leveling to reduce the trip hazards from leftover relay control interior mounting hardware. The machine room HVAC is in good repair and reportedly maintains the space at an acceptable room temperature. Replacement of the elevator machine will require changes to electrical conduit and wiring, fire alarm interface wiring, and similar systems.

The existing machine room access consists of a low half door, original to the building construction, which cannot be heightened due to building structural steel. We propose to use the 4' x 6' equipment trap door leading to the mechanical room below as access, through use of a removable aluminum Lapeyre stair. To meet building codes, it will be necessary to build a rated room below the trap door, in the mechanical room, that goes from the machine room floor to the ceiling/ machine room floor. This will maintain the rating of the machine room as an isolated room from the mechanical room. The trap doors will be removed and replace with bolted OSHA compliant railings, which will be removable for rigging machines and motors. The room will have a key card operated man door and inactive leaf to maximize the clear access to the trap area. As rigging a lift into the machine room is a rare event, the Lapeyre stair becomes the primary access. The half door will remain for machine room access during rigging operations. The design of the stair, railings, and room will be finalized during design.



Non Code Compliant Half Door – Machine Room Access



Machine Room Trap Door – To Be Reconfigured for Primary Access



Machine Room Trap Door as Seen From Mechanical Room



Montum Architecture, LLC 55 ER Path, Keyser, WV 26726 304-276-7151 tom@montumarch.com montumarch.com

This excerpt relates to the Building 36, elevator 4, freight:

Hoistway:

Generally, there appear to be no significant concerns with the hoistway. There is some existing conduit which may need relocated, this will be fully reviewed during design. Holes in the shaft wall near the top of the shaft will be closed and drain piping in the shaft will be isolated by means of a drywall or sheet metal separation. The sills appear to be compliant in terms of maximum depth and sheer points hazard. The hoistway has no sump but one will be installed, related to the installation of sprinklers in the hoistway. A hoistway access ladder will be installed. Hoistway lighting and service receptacles to meet current codes will be installed.

# o) Machine Room:

The machine room is a dedicated space above the top of the shaft, accessed from the roof. It is reasonably sized for the equipment it contains and has sufficient clearances. The floors require grinding and leveling to reduce the trip hazards from leftover relay control interior mounting hardware. The lifting steel is not sufficient and will be replaced. This will require replacement of the machine room floor. A mini split heat type HVAC system will be installed to regulate the space temp. Replacement of the elevator machine will require replacement of all electrical conduit and wiring, fire alarm interface wiring, and similar systems. The access stairs from the roof into the machine room are in poor repair and will be replaced. A window in the machine room will be filled in with suitable material.

*p) Car Interiors:* 

The new cab will incorporate new stainless steel interiors. The cab will be replaced so the interiors will be new.

*q) Fire Alarm/ Fire Protection:* 

Smoke detectors were observed on the landings and were generally located appropriately. Smoke and heat detectors will need to be installed in the shafts. The system lacks any Fire Alarm interface and recall capability. These will be addressed in the project. The building has a new, addressable, fire alarm system, so incorporating the additional devices should be a simple matter of extending the detection and signaling busses to the machine room to make the appropriate interconnections.

Sprinklers will be added to the hoistway.

# LABOR AVAILABILITY

Labor availability will need to be considered during the evaluation phase. As was seen on the previous GSD projects referenced in the EOI, project labor became a concern. The availability of project labor will be a major consideration in regards to phasing, bidding, and implementation (CA). As of this time, there are 79 elevator mechanics listed in the WV union. As WV is predominantly a union elevator state and those mechanics do both maintenance and construction, the pool is limited. While the count is the same as 5 years ago, indicating no growth, it incorporates in the number of recent retirees and new apprentices and the available experienced labor pool is fairly diminished from 5 years ago. This will affect the phasing decisions that are made. The team will work during design (following purchasing regulations) to "recruit" competent contractors to bid the work, both to provide competition and to expand the available project labor force. This may permit the bidding of overlapping phases to complete higher priority work sooner, reducing GSD risk.

# **GOAL TWO – Design Team Structure, Design Implementation**

# DESIGN TEAM STRUCTURE

As can be seen from the project organizational chart in Section 1, Miller Engineering will lead the team with Travis Taylor serving as project lead. Craig Miller will be Travis' backup and will support his evaluation, design, construction administration efforts. Craig will perform administrative duties on the project.

Montum Architecture and Arrow Engineering will perform the architectural and structural service for the project. Montum served this role in the previous elevator work for GSD including the all critical historical components of Building 1 and the SHPO approvals. Arrow is new to the elevator team but Mike and his folks have performed this role before, including on the Mineral County Courthouse and Sheriff's Offices Renovation with Montum and Miller. Rick Kennedy and Associates will lead the elevator systems evaluation, budgeting, and specification efforts, and support construction administration through the submittal, construction, and punch list processes. They bring a unique level of experience and expertise, including hands- on expertise to the team.

While we have confidence in our ability to design and specify fire protection changes, and coordinate with the Owner's OT personnel on elevator phone and data requirements, we have teamed with Atlantic Code Consultants (ACC) Fire Protection Consultants and Mountaineer Technology Consultants (MTC) IT Consultants to provide fire protection and data coordination efforts. Should the Owner choose to utilize these team members, they will interface with the design team in their respective areas of expertise. ACC will work directly with Travis and MTC will work directly with Tyler on the coordination of project tel/data requirements with the WV OT personnel.

# DESIGN IMPLEMENTATION AND TECHNICAL DOCUMENTATION

With Miller leading the effort, the overall approach for the project will be as a technical resource to the Owner in the review and decision-making regarding the report findings. We follow an interactive process of verbal, email, and formal written communications to allow the Owner to drive the decision process. Design review meetings, where the progress of the project is reviewed and verification of our assumptions and design path, are crucial to the effort. This involves stakeholders selected by the Owner and includes meeting minutes and post meeting feedback and follow by our team. We develop a list out potential and outstanding issues and concerns on both the technical and stakeholder sign and track them to resolution. We update estimates as project requirements change as we proceed through design. We used this process in the previous GSD elevator work, Building 25 HVAC and Lighting, and Building 36 designs with great success. Individual concern tracking proves invaluable due to the complexity and nature of the renovation. Design meeting minutes dovetail with the concerns matrix, providing documented insight of all involved to minimize concerns being overlooked.

While Craig has worked on many elevator modernization projects through the years, particularly at WVU, Rick Kennedy is the team resource for elevator code compliance. We often refer to him as a 'walking human code book' when it comes to elevators. Rick brings a unique knowledge not only of elevator codes, but of the interaction and requirements that elevators place on other systems such as HVAC, Electrical, and Fire Alarm. Coupled with years of practical knowledge, he helps the team ensure the final system meets current elevator codes.

The team, led by Travis, Craig, and Rick, will review any previous evaluations while making their own field reviews of the systems in question. The existing evaluations are a starting point, but must be coupled with professional diligence by our team. We use the results of our field assessment and recommendation-based decisions of the Owner as our guidance on the project. The reviews include not only the mechanics of the elevator, but the shaft, fire protection, fire alarm, mechanical, structural, architecture and historical context of the elevators where applicable. Our team will meet with GSD and review the previous findings, along with our findings, to determine the best path for the renovation work. The condition of any individual elevator may be a factor in the phasing of the work with more critical needs prioritized higher than others. This is one of the existing building systems are capable of supporting the renovations, and if not, recommending and implementing the changes to the building systems in a clear, concise fashion.

As a point of discussion, it is likely that West Virginia will adopt the newest version of the Elevator Code within the next 2-3 years. We believe it is important to perform a look ahead as part of the project and discuss any code change related impact with the Owner early in schematic design. This will allow WV GSD to make any decisions related to the impact of an impending code revision. The recent adoption of IBC 2018 impacts the project related to two-way voice and visual communications systems.

MEI initiates construction documents as part of the design process; earlier than most consultants. As the documents relay the design intent to the bidders and eventually the performing contractor, we believe documenting the design intent as clearly and concisely as possible is a Day One design goal. We have found this approach tends to identify concerns or issues sooner rather than later and allows us to more efficiently iterate and solidify the design. Our design efforts and drawings center around the Owner's goals and constructability – can it be built the way we show it? At each document submission phase, the product is peer reviewed three times prior to release. Enlarged views, sections, elevations, isometrics are all added as the design progresses. Details and schedules are developed and revised throughout the process. We will often note areas of concern or items requiring Owner input on the progress prints to call attention to the situation, we have found this very helpful in meetings.

As project drawings are developed, so are specifications. We have worked as prime consultant on many projects and are quite familiar with developing not just the technical specifications, but the full project manual. Our manuals include all the CSI Divisions required for the project plus supplemental information related to project delivery, conditions, and scope of work. We regularly work with Owners to incorporate their requirements in the "front end" sections of the manual. As the documents near completion, we conduct a final constructability review on the bidding documents and incorporate final Owner comments.

As previously stated, renovations are at the core of our work. Renovations involve an evaluation and recommendation phase being followed by design, detailing, and construction documents. We believe this is where the emphasis on understanding the Owner's needs and goals, along with a detailed understanding of the facility, benefit the project. The interactive nature of the evaluation and the documentation prepared result in a smooth transition from Evaluation to implementation. We never assume we have all the answers and there is a great deal of design and detailing work that must be accomplished. The recommendations will be broken down with such items as "mandates" and others as "options" for further evaluation. We review these in detail with the Owner and utilize the Owner's decisions to prepare documents for competitively bidding the renovation. The following projects were all performed using this methodology:

Building 36 HVAC Renovations

WV State Building 25 Piping, HVAC, & Lighting Monongalia County Schools - MTEC and Mountainview HVAC Renovations Alderson Broaddus Withers Hall HVAC Evaluation and Renovations WV Division of Natural Resources - Elkins Operations Center Cacapon Lodge Addition & Renovation

Last, but certainly not least, is cost estimating and budgeting. MEI treats the estimate as a living document, updating it as the design develops or market situations change. MEI will first prepare budgetary estimates based on the field evaluation. The estimates will be order-of-magnitude and serve as a starting point for Owner discussions of budget priority. As the design is refined, we will incorporate equipment, material, and labor estimates based on actual quoted costs where possible, and previous experience using pricing guides when no quoted costs are available. Our final estimates will reflect our best efforts to convey bid cost based estimates for the project systems and phases. For phase 1, our estimate without Building 25 included, was \$4.2M, the bid during the Covid price escalation was \$6.5M with \$700k of the difference in Building 25 alone. For Phase 2 our estimate was \$7.9M, with 15% contingency, and the bid was \$6.9M. Neither project has occurred significant cost change orders.

# GOAL THREE – Multiple Phase Project Experience and Implementation

MEI has designed many phased projects to permit the Owner to use part of a facility while the rest was renovated. Elevator modernizations represents a challenging but executable continued use. It requires a very high level of discussion, coordination, and planning with the Owner to address the Owner's operational realities. The detailed evaluation of the systems in goal number one is an important piece of this process. It helps us understand what is needed and when in terms of bringing the elevators into code compliance and helps highlight and spot the windows of opportunity to perform work requiring partial shutdowns or outages. By interacting with the stakeholders and incorporating the phased construction plan into the documents, the risk of change orders due to use and occupancy concerns can be reduced.

Many of MEI's projects are retrofits or renovations which have required a phased approach, by either multiple bid projects or phased scheduling. McKeever Lodge in Pipestem State Park utilized both methods. The HVAC piping replacement was designed and documented in a manner in which only a small portion of guest rooms were unavailable at any given time. Each phase of construction was clearly documented to indicate the sequence of work flow. The last phase, a boiler plant replacement, was recently completed without interruption of service. MEI was involved during construction acting as a communication conduit between the contractor and owner to coordinate any disruptions and maintain the lodge's utilization. The same occurred during the Lodge's Fire Alarm Replacement phase.

MEI will review each of the facilities to document existing conditions, challenges, and possible solutions for each location. We will review our findings with the owner after performing initial site visits to verify if the initial sequencing is the best option. A similar approach was used during the recent GSD and WV ARNG projects found in the experience section of this submission. Extensive site review and discussions with the facilities staff provided an understanding of several possible approaches to performing an extensive renovation while minimizing occupant disruption. MEI reviewed our recommendations with WV General Services Division, and the Guard and prepared documents which show a specific phased approach. The documents were organized and labeled by phase, with a project narrative in the specifications to supplement and help clearly state the sequencing of construction.

The above mentioned projects required the contractor to clearly prepare a schedule and the documents contained language pertaining to staying on the prepared schedule. MEI will regularly verify that the projects remain on schedule and will help communicate to the building's staff the sequencing of construction and help devise methods to keep both the construction flow and maintain building utilization.

Further examples of projects which used either phased construction or multiple phased bids include:

Mineral County Commission Facility Renovations & Additions Building 22 2nd Floor Renovations Building 25 HVAC Piping WV GSD Elevator Modernizations – Various Facilities, Phases I & II Morgantown High School Area 4 HVAC Renovations Building 22 2nd Floor Renovations McKeever Lodge Multiple Bid Projects - Electrical Repairs, HVAC Piping Repairs, Boiler Replacement, Fire Alarm, Plaza Renovations

In terms of continued occupancy, a great majority of our project are renovations with this requirement. Designing for implementation with occupancy can be complicated and off-times difficult, but it is an essential reality. Working with the Owner to understand and relay the restraints on contractors becomes part of the design and document process.

# GOAL FOUR – Purchasing Requirements and Construction Administration

# PURCHASING REQUIREMENTS

On numerous occasions since 2005, MEI has served as prime consultant to many State of West Virginia agencies that utilize the WV Purchasing Division procurement processes, including WV General Services Division, WV Division of Natural Resources, WV National Guard, Department of Agriculture, and Colleges and Universities. Additionally, we have performed services as prime consultant for county governments, county school boards, municipalities, (including water and sewer), and regional transit authorities whom also follow WV Purchasing Requirements under the WV State Code.

The bidding process, including conducting pre-bid meetings, answering questions by written addendum, and evaluating the bid results, is an essential link in the chain of a project. By effectively and quickly responding to bidder questions, the potential for change orders or of bidders 'padding' a bid due to uncertainty is reduced. As previously mentioned, MEI will recruit bidders for the elevator project while following Purchasing regulations.

We understand the document structure preferred by WV Purchasing, including recent revisions, and General Services Division. We are adept at incorporating Owner and WV Purchasing review comments into our documents to form the basis of a legal contract. MEI does not disappear once the Owner has bidding documents in hand. We will conduct the pre-bid meeting, working with the Owner, and answer bidder questions, vendor substitution requests; creating addenda as needed. We will evaluate the bids and make recommendations for acceptance or rejection of the bids.

# Experience:

Our experience has given us a firm and detailed understanding of the regulations and the procedures for publicly bidding work in WV and specifically with WV Procurement Services. A partial project list includes:

Building 25 HVAC Piping Replacement, HVAC, & Lighting Building 36 HVAC Renovations WVARNG FWAATS Restroom Renovations WVARNG Maclin Hall Makeup Air Units Pipestem HVAC Piping Replacement WV Dept of Agriculture - Ripley Warehouse Generators WV Division of Natural Resources - Elkins Operations Center

# CONSTRUCTION CONTRACT ADMINISTRATION

Once under construction, MEI will make site visits, both formal and informal, to ensure the project work is on track. We call this our "boots on the ground" approach. This is coupled with the normal regimen of meetings and documented project communications. MEI will involve and communicate with the Owner throughout the construction to ensure everyone remains "on the same page". MEI will conduct regular progress meetings with the Owner and Contractor to review progress, administrative concerns, and Owner coordination issues, and prepare meeting minutes for the record.. While standard AIA protocol is for the contractor to prepare meeting minutes, MEI chooses to perform this task to ensure the minutes accurately reflect the progress of the project and the concerns which may come up during meetings. We see this as even more crucial when the Owner retains occupancy of parts of the building during construction, which is typical in elevator projects.

Construction administration is the enforcement of a legal contract. Under AIA documents, MEI is the Initial Decision Maker in contractual matters up to an including a contractor claim. MEI has demonstrated performance for GSD in this role on the Chiller Plant project along with the Elevators Phases 1 and 2 project, along with projects for WV DNR Parks including: Hawks Nest Lodge Renovation, Cacapon Lodge Addition, and Blackwater Falls Lodge Renovations. Our experience has shown that our goal of having written requirements in the project documents is crucial to resolving such matters.

Recent events have shown that material and equipment delivery are major time consumers in a project. We aggressively pursue contractor submittals and usually turn them within 2 days. We see a need to work with GSD and Purchasing on project requirements and language to increase the motivation of contractors to commit to, and stay on, project schedules. As seen in both phases of the elevator project, failure to prepare and submit timely submittals have been at the heart of contractor delays. We believe there needs to be greater consequences for a contractor's failure to perform and wish to help develop those tools.

Since most of the staff at MEI have construction backgrounds, we understand that delays cost both the contractor and the project money. RFIs from contractors take precedence in the office, and are often answered the same day but normally within 24 hours, to ensure the project stays on schedule and to minimize change order potential. We will witness many aspects of the installation such as: startup and testing of equipment, testing and balancing, and personnel training. We will require and review all record "red line" drawings and O&M Manuals for accuracy and completeness. We remain involved after construction to help resolve and enforce any warranty concerns that might arise.

Examples of projects which included intensive construction administration services include:

WV GSD Elevator Modernizations – Various Facilities, Phases I & II Cacapon Lodge Addition and Renovation Pipestem Fire Alarm Replacement Pipestem Mountain Creek Lodge and Visitors Center Fire Alarm Chief Logan Emergency HVAC Repairs WV GSD Chiller Plant Modernization/ Generators Canaan Valley Lodge 3<sup>rd</sup> Party Construction Administration



# **TAB 3 – STAFF QUALIFICATIONS**







# **Travis Taylor, PE**

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

plumbing, and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

# Project Role: Lead MEP Engineer

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

## **Professional Project Highlights**

- Blackwater Falls Lodge
- Wesley UMC
- GSD Elevator Modernizations Various Facilities, Phases I and II
- Bridgeport FWAATS Restroom Renovations
- Building 25 Piping, HVAC, Lighting
- Pipestem State Park McKeever Lodge Piping, Fire Alarm, Boilers
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement
- Mineral County Commission Facility Additions
- WV Department of Agriculture Ripley Warehouse Electrical Upgrades

### **Professional History**

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

### <u>Education</u>

2006 West Virginia University, BS – Mechanical Engineering

- Professional Engineer West Virginia, Maryland
- OSHA 10-hour Course: Construction Safety & Health





# **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**

- GSD Elevator Modernizations Various Facilities, Phases I and II
- Building 5 Freight Elevator
- WV State Capitol Elevator Evaluation
- Capital Complex Chiller Plant Modifications
- Cacapon Lodge Addition & Renovation
- Mapletown Elevator
- Morgantown High School Area 4 HVAC
- Canaan Valley Lodge 3<sup>rd</sup> Party Construction Observation
- Building 36 HVAC Renovations
- Building 25 Piping, HVAC, & Lighting

### **Professional History**

Miller Engineering, Inc.	President, Relationship Manager
Casto Technical Services	Existing Building Services Staff Engineer
Uniontown Hospital	Supervisor of Engineering
West Virginia University	Staff Engineer
BOPARC	Caretaker – Krepps Park
University of Charleston	Electrician/HVAC Mechanic
	Miller Engineering, Inc. Casto Technical Services Uniontown Hospital West Virginia University BOPARC University of Charleston

### **Education**

1995 West Virginia University BS- Mechanical Engineering1988 University of Charleston BA- Mass Communications

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





# **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
- Chief Logan Lodge HVAC Renovations
- ChalleNGe Academy Maclin Hall Make Up Air Unit Replacement

## **Professional History**

2022- Present Miller Engineering, Inc. MEP Designer

### <u>Education</u>

2022 West Virginia University, BS - Mechanical Engineering



# **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

- 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
## Staff – Proposed Staffing Plan







West Virginia State Board of Registration for Professional Engineers TRAVIS W. TAYLOR WV PE



To all to takom these presents shall come Greeting Rinder Ud And The State Roard of Registration for Professional Engineers

Trabis M. Taylor (DOIS IN PURSUANCE OF AUTHORITY VISTED IN IT)

REGISTERED PROFESSIONAL ENGINEER

Registration Number





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## Richard A. Kennedy & Associates Elevator Consultants

1110 Independence Drive West Chester, PA 19382 rakelevator@aol.com Office 610-793-1372 Cell 484-802-9201 Fax 610-793-5093

#### **CURRICULUM VITAE**

Occupation:	Principle of Richard A. Kennedy & Associates, LLC.		
Date of Birth:	January 14, 1948		
Education:	Widener University, Chester, Pa. Degree: Masters in Business (MBA) 1977 Villanova University, Villanova, Pa. Degree: Arts & Science (A & S) 1969		
Work Experience:	1981-Present Work Duties:	<b>RICHARD A. KENNEDY &amp; ASSOCIATES</b> Principle/Owner primarily responsible for consulting in all areas of the elevator field, including escalators, moving walks, dumbwaiters, and other lifting devices. Provide expert witness forensic services and testimony for the legal profession, insurance companies, and building owners.	
	8/20/20- 9/30/22 Work Duties:	<b>CONSULTANT to AMERICAN ELEVATOR GROUP</b> V.P. Business Development, including M & A of new business units.	
	11/01/19- 08/20/20:	KENCOR INC., Executive Chairman	
	1982-	KENCOR INC., ELEVATOR SYSTEMS	
	Work Duties:	C.E.O., primarily responsible for interfacing all Departments, responsible for design specifications, Marketing, consulting to A. & E., Actively engaged in all aspects of field operations.	

Curriculum Vitae Richard A. Kennedy Page 2

	1994-1996	<b>DELCO Elevator Equipment Sales, Inc.</b> Work Duties: C.E.O., primarily responsible for interfacing all departments of a hydraulic elevator manufacturing company.
	1978-1981 Work Duties:	<b>ELEVATOR SALES &amp; SERVICE, INC.</b> C.E.O. primarily responsible for interfacing all departments, responsible for design specifications, marketing, consulting to A. & E., actively engaged in all aspects of field operations, Directly responsible for all union negotiations and education.
	1972-1978 Work Duties: superv	SALES MANAGER/SERVICE MANAGER Directed all marketing efforts and provided field ision where required to union field personnel.
	1969-1972 Work Duties:	<b>SERVICE ENGINEER</b> Primarily responsible for the maintenance and servicing of vertical transportation equipment associated with the elevator trade.
Associations/ Appointments/ Awards:	President of the National Association of Elevator Constructors (2010-11); Board of Directors of the National Association of Elevator Contractors (2009-2011); Certified Elevator Inspection Agency for State of PA; Member of the National Association of Elevator Safety Authorities (NAESA); Qualified Elevator Inspector (Q.E.I.) Certificate <b>1999</b> ; Certified Elevator Technician (C.E.T.) Certificate <b>1999</b> ; Board of Directors of Elevator Contractor's Council of the Association of Building Contractors (ABC); State of Maryland Elevator Mechanic's License; State of Delaware Special Limited Electrical License for Elevators; State of New Jersey Elevator Mechanic's License; National Association of Elevator Contractor's Recipient of the "William Sturgeon" Award, September 2014; Chairperson of the Vertical Transportation Management Course, NAEC, 2010 to present;	

Curriculum Vitae Richard A. Kennedy Page 3

Member, MWAA (Metropolitan Washington Airports Authority) Board of Directors, Presidential Appointment confirmed by U.S. Senate July 2014 (term ended May 2016);

National Association of Elevator Contractors Honorary Lifetime Achievement Award for long-standing service and leadership to NAEC and the Vertical Transportation Industry, September 2024.

#### CURRICULUM VITAE

#### JOHN M. DODDS

, West Chester, PA 19382 | 484-995-3642 | jdodds@kencorelevator.com

### **OCCUPATION** President/Chief Operating Officer, Kencor, Inc. Elevator Systems **EDUCATION** Pennsylvania State University, State College, PA Degree: Bachelor of Science Business. Graduated Cum Laude 2020 Delaware Technical College, Wilmington, DE Degree: Associates in Business 2014 WORK EXPERIENCE **KDA Elevator Consultants, LLC** President Primarily responsible for executing all vertical transportation 2019-Present consulting on sites, including conducting maintenance audits, drafting specifications, elevator design, performing inspections, and coordinating with engineers, architects, and elevator companies. **Richard A. Kennedy & Associates Elevator Consultant & Inspector** 2009-Present Primarily responsible for executing all vertical transportation consulting on sites, including conducting maintenance audits, drafting specifications, elevator design, performing inspections, and coordinating with engineers, architects, and elevator companies. Kencor, Inc. Elevator Systems President 2019-Present Primarily responsible for all internal and external operations of the company including establishing short and long-term goals, plans and strategies.

Chief Operating Officer2011-PresentPrimarily responsible for interfacing all departments, responsible<br/>for design specifications, marketing, sales, and actively engaged in all<br/>aspects of field operations.2011-Present

<b>Director of Field Operations</b> Primarily responsible for ensuring the company's daily activities run smoothly by interfacing all field departments including service, repair, construction, and modernization.	2006-2011
Service Manager Primarily responsible for provided field supervision to field personnel within the service department as it relates to daily operations.	2004-2006
Service Engineer Primarily responsible for the maintenance and servicing of vertical transportation equipment associated with the elevator trade.	1998-2004

#### ASSOCIATIONS, APPOINTMENTS, AWARDS

Certified Elevator Inspector for state of Pennsylvania License	2009-Present
Member of the National Association of Elevator Safety Authorities (NAESA)	2009-Present
Member of the National Association of Elevator Contractors	2005-Present
Qualified Elevator Inspector (QEI) Certification	2009-Present
Certified Elevator Technician (CET) Certification	2005-Present
Certified Elevator Technician Supervisor (CETS)	2005-Present
Certified Elevator Technician Accredited by A.N.S.I. (CETA)	2014-Present
National Association of Elevator Contractors Board of Directors	2016-2019
Secretary National Association of Elevator Contractors	2017-2019
National Association of Elevator Contractors Certification Board	2010-2016
Chairman National Association of Elevator Contractors Certification Board	2013-2016
Chairman National Association of Elevator Contractors QEI Program	2018-Present
Chairman National Association of Elevator Contractors Member Services	2017-Present
State of Delaware Master Electrician Special-Elevators License	2014-Present
State of Maryland Elevator Mechanic's License	2014-Present
District of Columbia Elevator Mechanic License	2018-Present
State of New Jersey Elevator, Escalator, Moving Walkway Mechanic's	2019-Present
License	
State of Virginia Elevator Mechanic License	2022-Present
Recipient of the National Association of Elevator Contractor's President's	2021
Award for recognition of never-ending dedication and commitment to the	
Industry	

### Matthew J. Hollinshead

Date of birth: January 12, 1981	
607 Entwisle Ct. Wilmington, DE 19808	
(484) 477-5183	
Matthew.hollinshead@outlook.com	
Occupation	
Vice President Service Operations, Kencor LLC, Elevator Systems	
Associate, Richard A. Kennedy & Associates	
Education	
Delaware Technical Community College, Wilmington, DE	
Degree: Associate's in Applied Science-Business	2023
Work Experience	
Richard A. Kennedy & Associates	
-Associate	2019 to Present
Responsible for consulting in vertical transportation site reviews; including maintenance audits, periodic inspections, and expert witness forensic services.	
Kencor, LLC., Elevator Systems	
-Vice Present, Service Operations	2021 to Present
Responsible for ensuring the daily activities of the maintenance and repair departments run smoothly by interacting with managers, supervisors, dispatchers, sales personnel, and purchasers in the maintenance, repair, sales, construction, and modernization departments.	
-Service Manager	2017 to 2021
Responsible for providing technical and administrative support to field supervisors, dispatchers, purchasers, and maintenance sales personnel.	

Curriculum Vitae	
Page 2	
-Service Supervisor	
Provided technical and administrative support to maintena mechanics assigned to me. This support would include site visit assist in the troubleshooting of elevators, the repair of elevators w two men are needed, and communication with the customer information regarding their elevator(s).	nce s to hen on
-Service Mechanic	
Managed a maintenance route and performed callback, peri inspections, and small repairs on the elevators on that route.	odic
Associations/Appointments/Awards	

Matthew J. Hollinshead

Member of the National Association of Elevator Safety Authorities (NAESA) 2015 to Present Member of the National Association of elevator Contractors 2008 to Present Qualified Elevator Inspector (QEI) Certification-2015 to Present Certified Elevator Technician (CET) Certification 2008 to Present Certified Elevator Technician Supervisor (CET-S) 2016 to Present Certified Elevator Technician Accredited by A.N.S.I 2016 to Present National Association of Elevator Contractors Certification Board 2016 to 2022 Chairman National Association of Elevator Contractors Certification Board 2019 to 2022 National Association of Elevator Contractors By-Laws Committee 2022 to Present National Association of Elevator Contractors Board of Directors 2024 to Present State of Delaware Master Electrician Special-Elevators 2014 to Present State of New Jersey Elevator Mechanic 2019 to Present State of Maryland Elevator Mechanic 2016 to Present State of Virginia Elevator Mechanic 2020 to Present District of Columbia Elevator Mechanic 2018 to Present **Transportation Workers Identification Card** 2015 to Present Award-Honor Graduate-Business Delaware Technical Community College 2023

2012 to 2017

2008 to 2012

Montum





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

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

#### Project Role: Relationship Manager – Primary Point of Contact

- Principal in Charge
- Design and Project Management

#### **Professional History**

2017- Present 2004-2017 2003

Montum Architecture Alpha Associates Marshall Craft Associates

#### **Education**

2004

Virginia Tech

#### **Licenses and Certifications**

- Licensed Architect (West Virginia, Maryland)
- NCARB Certificate
- Construction Specifier Institute Certified Construction Specifier

#### **Associations and Memberships**

• American Institute of Architects

- Concept and Construction Design
- Quality Assurance and Control

Architect Associate and Architect Architectural Intern

Bachelors of Architecture

- LEED-AP Certified
- Part 107 Remote Pilot
- 30-hour OSHA Card
- Mineral County Chamber of Commerce 1<sup>st</sup> 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

Montum

Architecture

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



#### 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 persuing 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	
<b>Education</b>			
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



#### The West Virginia Board of Architects

certifies that

THOMAS F. PRITTS

is registered and authorized to practice Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued by the authority of this board.

Certificate Number

The registration is in good standing until June 30, 2020.







#### **EDUCATION**

UNIVERSITY OF PITTSBURGH BACHELOR'S OF SCIENCE CIVIL ENGINEERING WEST VIRGINIA UNIVERSITY MASTER'S OF ARTS BUSINESS ADMINISTRATION

#### **PROFESSIONAL LICENSURE**

WV, VA, PA, IN, LA, CA, TN, MD, KY, TN, NJ, OH

#### **CURRENT AFFILIATIONS**

Spark! Imagination and Science Center Bartlett House Pace Enterprises, Inc BNI International Habitat for Humanity American Society of Civil Engineers

#### FORMER PROFESSIONAL EXPERIENCE

American Bridge Company- Corapolis, PA McKinney and Company—Ashland, VA Brockenbrough and Associations— Richmond, VA Allegheny Design Services—Morgantown, WV

## Michael Howell PE, SE

With more than 20 years of experience, Michael is the force behind Arrow. Originally from Pittsburgh, Pennsylvania, he founded this company in a town that he grew to love as a child, Morgantown West Virginia.

From holding a hammer in his hand and going in crawl spaces, to attaining his PE and SE and working with many different project types and scales throughout the years, he has a background in both construction and engineering.

Michael's experience includes residential, commercial, and industrial projects of all sizes throughout the United States and across the world. He brings a straightforward and practical approach to projects that saves clients time and money while ensuring the Arrow team produces the highest quality materials and goes the extra mile to give people what they need.

#### **RECENT PROJECT EXPERIENCE**

**Blaney House Renovations** 

Morgantown, WV

**Grow West Expansion Phase II** 

Cumberland, MD

Parkersburg Children's Museum

Parkersburg, WV

**Sweet Springs Resort Bathhouse Restoration** 

Sweet Springs, W.V.

Mon General Community Hospital

Fairmont, WV





### **R. Ashbee Sykes, PE** Project Engineer, Arrow Structural Engineering

Ashbee Sykes is a Structural Project Engineer for Arrow Engineering that has worked in a variety of roles in the construction industry. He has experience in many facets of the industry from framing houses to planning and engineering on multimillion dollar infrastructure projects in his subsequent work. He understand the hard work that goes into construction projects and the impact design decisions may have. His practical experience is a valuable asset for Arrow's clients.

EDUCATION WEST VIRGINIA UNIVERSTIV BS MECHANICAL ENG. MASTERS AEROSPACE ENG. THE CITADEL GRADUATE CERTIFICATE STRUCTURAL ENGINEERING

### PROFESSIONAL ENGINEER LICENSURE

WV, VA, PA, NC



## **Affiliations:**

American Society of Civil Engineers Structural Engineering Ins

## **Engineer of Record Projects:**

Liberty Village Wise Path Recovery Center 300 South Campus Drive Opequon-Hedesville WWTP Upgrades Sutherland Residence Uhlinger Residence Charleston, WV Mount Morris, PA Imperial, PA Martinsburg, WV Morgantown, WV Snowshoe, WV

Ashbee@arwcg.com

in www.linkedin.com/company/arwcg

( www.arwcg.com



Morgantown, WV

Facebook.com/arrowstructuralengineering





# Phillip D. Bailey EI

## JUNIOR ENGINEER

### EDUCATION

WEST VIRGINIA UNIVERSITY: BS CIVIL ENGINEERING



## BIOGRAPHY

Phillip Bailey is a Junior Structural Engineer at Arrow Engineering. He has experience working in large-scale construction while working on West Virginia University's Women and Children's Hospital as an Assistant Project Manager for nearly two years prior to his graduation from West Virginia University. His experience in construction and advanced knowledge of structural engineering analysis software programs has brought great value for Arrow's clients.

## **AFFILIATIONS**

Chi Epsilon Former Marshall of WVU Chapter Young Life Youth Ministry Leader

## EXPERIENCE

Morgantown Christian Academy Morgantown, WV Parkersburg Children's Museum Parkersburg, WV Birchwood Power Station Demolition King George, VA Fairmont United Methodist Renovation Fairmont, WV Crown Jeep Dealership & Service Center Washington, PA

#### **President/Fire Protection Engineer**

#### **Specialty Fields**

Fire Protection Engineering	ng	Life Safety Assessment
Maintenance & Acceptan	ce Testing	Product Fire Performance
Flammable & Combustib	le Liquids	Fire Protection Systems Design
Master Planning Commun	nity Fire Protection	Building Codes and Standards
Fire Safety Training	•	Health Care Occupancies
Specialized Professional Compet	<u>ence</u>	
Life Safety Assessment:	High-rise, laboratories, business, healthcare, assembly, residential, board and care, detention and corrections, warehouse/distribution, education, existing buildings, and large mixed use and occupancy. Compliance with NFPA codes and standards; especially NFPA 101, The <i>Life Safety Code</i> <sup>®</sup> .	

Hazard Analysis:	Flammable and combustible liquids storage and handling, computer facilities,
·	laboratory facilities, nuclear plants and other Highly Protected Risks.

Fire Protection System	Fire alarm and detection, automatic fire sprinklers, foam
Design:	systems, fire pumps and water storage facilities, fixed water spray, and gaseous suppression systems.

Education Fire science technology at the University level including Fire Protection Structures and System Design, Fire Dynamics, Fire Department Deployment Analysis, Basic Fire Protection Engineering for Allied Professionals, Building Code Analysis, Fire Safety Training for Board and Care Operators

#### **Major Projects and Activities**

Initiated, assisted and/or coordinated implementation of Department of Energy Fire Protection Program for Goodyear Atomic Corporation at the uranium enrichment plant in Piketon, Ohio. Performed fire and life safety audits of 57 existing structures and provided fire protection design guidance on new projects including proposed expansion of the facility. Assisted in the investigation of a major water main break in the fire suppression systems supply main for the industrial facility resulting in recommended modifications.

Have provided consultation to architects on the development of new facilities and the renovation and rehabilitation of existing facilities. Provides support to architects and engineers for code interpretation and fire protection planning on a wide array of projects.

Developed users guide for the implementation of the Fire Safety Evaluation System in board and care occupancies for the National Park Service under contract to the National Bureau of Standards (now the National Institutes of Standards and Technology). Evaluated the alternative design manual for compliance with present day standards for historic structures.

Performed industrial fire protection surveys and audits of organic coatings manufacturing, warehousing and retail facilities throughout the United States. Provided plan review services and assisted underwriters with client evaluations. Developed risk potential for all surveyed locations. Developed educational materials for the paint and coatings industry related to fire protection and static electricity. Represented fire protection concerns on committees for the National Paint and Coatings Association; primarily interested in fire retardant coatings and generation and control of static electricity.

Have served as fire protection and life safety project manager for major renovations and additions to the University of Pittsburgh Medical Center, Presbyterian University Hospital, Montefiore University Hospital and the Eye and Ear Facilities in Pittsburgh, PA. He has provided fire protection and life safety consultation to Johns Hopkins Hospital, Johns Hopkins Bayview Medical Center, and Greater Baltimore Medical Center in Baltimore, MD; Kimbrough

#### Harold D. Hicks, Jr., FSFPE

Army Hospital, Fort Meade, MD; Children's Hospital of Pittsburgh, PA; and Veteran's Administration Hospital, Washington, DC and Butler, PA. He assisted with the design of fire alarm system replacements and automatic sprinkler systems for the Veteran's Administration Hospital in Butler, PA. He provided consultation throughout the design and construction of the new Children's Hospital for the University of Pittsburgh Medical Center, a \$500 million project involving additions and renovations to an existing hospital complex.

Performed numerous fire protection and life safety assessments and recommended upgrades for existing facilities, including 19 Federal Bureau of Prisons facilities across the U.S.; Montefiore University Hospital, Pittsburgh, PA; the former ALCOA Corporate Headquarters, Pittsburgh, PA; University of Pittsburgh Medical School and Presbyterian University Hospital, Pittsburgh, PA; and many federally occupied offices including the Pentagon in the Washington, D.C. metropolitan area. He has performed these services under contract to the United States General Services Administration. Harold has performed surveys for a wide range of existing residential occupancies including high-rise condominium communities.

He has 40 years' experience in conducting surveys of existing healthcare facilities for fire protection and life safety. He has prepared *Statement of Conditions and Life Safety Assessments* for all levels of healthcare occupancies from small outpatient centers to 1,500 bed major medical centers. During this process, he has developed long term plans of correction which have been accepted by JCAHO, state and local agencies. He is well versed in the application of NFPA 101, the *Life Safety Code*<sup>®</sup>, as he uses it on a daily basis. He is currently working with Excela Health, Ohio Valley General Hospital, Allegheny Health Network (Allegheny General, Suburban, Saint Vincent, Jefferson and others), and Mount Nittany Medical Center in Western PA.

Mr. Hicks has conducted basic fire protection engineering training for the Army Corps of Engineers and the Air Force, and basic fire safety for the National Certification Program for Fire Safety in Board and Care Homes for the Developmentally Disabled. He has assisted teaching a Building Fire Safety Course to professors of engineering from around the world at the Emergency Management Institute in Emittsburg, Maryland. Mr. Hicks was the lead instructor for 23 years for the Army Corp of Engineers Basic Fire Protection Engineering Course and an instructor for the Fire Suppression Systems course; both 36-hour training classes for architects and engineers.

Served as a member of the District of Columbia Building Code Advisory Committee during the adoption process of the Basic National Building Code (BOCA) and chaired the Fire Safety Sub-Committee for several years. Continues to participate in the development of National Codes and Standards and is currently a member and past chairman of the NFPA Committee on Fire Doors and Fire Windows.

Mr. Hicks has been supporting the Pennsylvania Assisted Living Association with technical expertise toward a better understanding of the fire protection provisions for Personal Care Homes and Assisted Living Communities. He has evaluated numerous communities to assess their fire protection delivery program and assign an evacuation time to the community. He has consulted with PALA regarding the Pennsylvania Department of Human Services fire protection criteria.

He provided fire protection and life safety consultation for the development of the \$328 million David L. Lawrence Convention Center in Pittsburgh, PA. The unique feature of this facility is a cable supported roof allowing for a 250,000 square feet clear span assembly hall on the second level. He worked closely to develop alternative performance-based fire protection for the hall to take the place of automatic sprinkler protection. He has provided fire protection and life safety consultation on the development of numerous research laboratory facilities including projects at Carnegie Mellon University and Rensselaer Polytechnic Institute.

Mr. Hicks provided consultation to two major projects in the Pittsburgh including the 23-story mixed-use and occupancy 3PNC tower and the seven story UPMC East Monroeville Hospital. He has also assisted clients with the acquisition of existing buildings and conversion of those spaces to alternative uses. One of the more unique projects is the conversion of the historic five story YMCA building in East Liberty to a high-end residential community and attached business and retail component.

Mr. Hicks has assisted architects, engineers, and contractors during construction administration to resolve serious project issues. He has used his vast knowledge and experience to provide alternative approaches to these issues and to get approval of local officials. He has worked alongside of his clients to resolve complex fire protection and life safety issues.

#### **Professional Employment History**

Atlantic Code Consultants, President and Principal Engineer, 1987 to present. University of Pittsburgh, Contract Fire Protection Engineer, April 1993 to June 1994 University of Maryland and University College, Adjunct Professor (part-time), 1978 to 1993. Chesapeake Engineering International, Inc., Principal Engineer, 1985 to 1987. Rolf Jensen & Associates, Inc., Senior Fire Protection Engineer, 1983 to 1985. Verlan Limited, Fire Protection Engineer/Team Leader, 1977 to 1983. Goodyear Atomic Corporation, Fire Protection Engineer, 1976 to 1977. University of Maryland, Department of Fire Protection Engineering, Data Analyst (part-time), 1974 to 1976.

#### Academic Background, Registrations and Memberships

B.S., Fire Protection Engineering, University of Maryland, 1976. Life Member, National Fire Protection Association. Member NFPA Technical Committee on Fire Doors and Fire Windows (NFPA 80 and 105), past chairman Fellow, Society of Fire Protection Engineers Past member of the SFPE Engineering Education Committee. Past President, Chesapeake Chapter, Society of Fire Protection Engineers. Past President, Three Rivers Chapter, Society of Fire Protection Engineers Past Professional Member, International Code Council Member, Salamander Honorary Society (University of Maryland Fire Protection Engineering) President, Rotary Club of Delmont-Salem 2020-2021 Past President, Murrysville-Export Rotary and Delmont-Salem Rotary Assistant District Governor, Rotary District 7330 and currently District 7305 Past Advisor to the Fire and Safety Glazing Council of the Americas Glass Association Editorial Board, Fire Safety Quarterly (a quarterly magazine for board and care providers) Formerly held Engineering Registration in Fire Protection in Maryland and Pennsylvania Ordained to ministry in the Anglican Church in 2007

#### Technical Papers, Articles, Reports Published

"Research Subcommittee Findings," Symposium on Emergency Operations in High Racked Storage, Florence, South Carolina, June 1981.

"Generation and Control of Static Electricity in the Paint and Coatings Industry," Marketing Development Committee, Steel Shipping Container Institute, Arlington, Virginia, October 1982.

Emergency Operations in High Rack Storage, Chapter 1, Committee on Emergency Operations in High Rack Storage, pp 11-14, June 1983.

<u>A User's Guide for the Fire Safety Evaluation System for the National Park Service</u>, Bush, K.E., Bradley, H., and Hicks, H.D., NBS-GCR-83-427, May 1983.

"Halogenated Extinguishing Systems, Computers: The Spectrum of Loss Prevention," Seventh Annual Seminar, Three Rivers Chapter of the Society of Fire Protection Engineers, Pittsburgh, Pennsylvania, March 1985.

"Horizontal Exiting, Means of Egress - Innovation and Applications Seminar," Chesapeake Chapter of the Society of Fire Protection Engineers, College Park, Maryland, March 1986.

"Engineering of Fire Sprinkler and Water Supply Systems Workbook," Society of Fire Protection Engineers Short Course, Boston, Massachusetts, 1988.

"Building Codes - A Perspective - Fire Retardant Coatings and Technical Research Developments for Improved Fire Safety," Fall Conference, The Fire-Retardant Chemicals Association, Annapolis, Maryland, October 1988.

#### Harold D. Hicks, Jr., FSFPE

United States Department of Health and Human Services by Bonnie Walker and Associates, November, 1988.

"Conflicts Between State and Local Code Issues During Construction or Renovation Projects" - 1988 Health Care Forum, Hospital Engineers of Southwestern Pennsylvania, Pittsburgh, Pennsylvania, April 1989.

"The Fire Protection Engineer and The Authority Having Jurisdiction," National Fire Protection Association Annual Meeting, Washington, D.C., May 1989.

"Microprocessor Based Fire Alarms and Smoke Management," International Conference on Municipal Code Administration. Building Safety and the Computer, Manitoba Building Officials Association, Inc., Winnipeg, Manitoba, Canada, September 1989.

"Microprocessor Based Fire Alarms and Smoke Management," National Fire Protection Association Annual Meeting, Society of Fire Protection Engineers Education Seminar, San Antonio, Texas, May 1990.

Basic Fire Protection Engineering Course, United States Army Corps of Engineers Learning, prepared for Bonnie Walker & Associates, Bowie, Maryland, 1990 - 1993.

<u>Fire Extinguishing Systems Design Course</u>, United States Army Corps of Engineers Learning Center, prepared for MSC Associates, Oakton, Virginia, 1993 - 2012.

<u>Basic Fire Protection Engineering Course</u>, United States Army Corps of Engineers Learning Center, prepared for MSC Associates, Oakton, Virginia, 1993 - 2012.

Fire Safety in Personal Care and Assisted Living Facilities, a train-the-trainer course designed and delivered for operators in Pennsylvania, 2009 – Present.

"Playing by the Rules: Code and Standard Uniformity," National Commercial Buildings Exhibition and Conference, Cincinnati, Ohio, September 1990.

"Fire Protection for Government Owned and Occupied Buildings - Update on Codes and Standards," Washington Federal Safety Council, Silver Spring, Maryland, September 1990.

"Fire Ratings for Glass Block: What They Don't Tell You," The Construction Specifier, February 1991.

"Fire Rated Glazing Panel", National Glass Association Annual Show and Convention, Seminar Number 605, San Antonio, Texas, April 3, 1992.

"Fire Rated Glazing", Progressive Architecture, April 1992.

"Sprinkler Retrofit Tendencies of Major Cities for High-rise Buildings", Update ... Fire Protection and Life Safety Symposium, Florida Chapter of the Society of Fire Protection Engineers, Orlando, Florida; September 1992.

"Voice Fire Alarm Systems - Into the Future," National Fire Protection Association Annual Meeting, Orlando, Florida, May 1993.

"Voice Fire Alarm Signaling Systems - Design Considerations", 41<sup>st</sup> International Conference on Campus Safety, Campus Safety Association, West Virginia University, Morgantown, West Virginia, June 1994.

<u>Basic Fire Protection Engineering Course</u>, United States Army Corps of Engineers, prepared for MSC Associates, Inc., Oakton, VA, 1993 - 2002. This is a comprehensive course covering design issues for architects and engineers from military agencies and the Federal Aviation Administration. It is offered twice each year.

Fire Protection and Life Safety Considerations in Healthcare Facility Design and Maintenance, an 8-hour short course for healthcare facilities management personnel, Westmoreland Regional Hospital, February, 1996.

#### MPDSI: Designing Building Fire Safety Course, Fire Detection and Suppression Systems Analysis, prepared for

#### Harold D. Hicks, Jr., FSFPE

Emergency Management Institute, National Emergency Training Center, Emmitsburg, Maryland, July 1996, July, 1997, August, 1998 and August 2000.

<u>Fire Suppression Systems Design Course</u>, United States Army Corps of Engineers, prepared for MSC Associates, Inc., Oakton, VA, 1996 - 2002. This course concentrates on design of sprinkler and water supply systems for military facilities and incorporates computer system calculations using the HRS HASS program.

Fire Protection and Life Safety Considerations in Healthcare Facility Design and Maintenance, an 8-hour short course for healthcare facilities management personnel, Johns Hopkins Hospital, October 1997.

National Fire Protection Association Fire Protection Handbook, Chapter on Confinement of Fires in Buildings, 19<sup>th</sup> edition, to be published in 2002.

"Fire and Smoke Dampers – Design, Installation and Testing", Society of Fire Protection Engineers Three Rivers Chapter, Engineering Society of Western Pennsylvania, Pittsburgh, PA, April 17, 2002.

"Managing Existing Types of Risks at Existing Healthcare Facilities", West Virginia Society of Hospital Engineers Annual Conference 2015, Canaan Valley Resort, Davis, West Virginia, August 18, 2015

Inspection Testing and Maintenance of Fire Doors for Healthcare Providers, Atlantic Code Consultants, 8-hour training seminar for facility personnel, 2017.

"Influence of Gap Size on Fire Doors", National Fire Protection Association Research Foundation, Technical Panel Member, Report issued in January 2018.

"Influence of Gap Size on Fire Doors – Phase II Fire Testing", National Fire Protection Association Research Foundation, Technical Panel Member, 2020 – Present

"Fire Protection and Life Safety in Assisted Living and Personal Care Homes", Pennsylvania Assisted Living Association Fall Conference 2017, Harrisburg, PA, October 10, 2017

In addition to the presented papers and published documents, we have been interviewed and quoted in a number of professional magazines on topics related to fire protection engineering.



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			
Roger Wolfe Project Engineer WV Division of Natural Resources 1000 Conference Center Drive Logan, WV 25601 (304) 885-6100 roger.c.wolfe@wv.gov	Jim Skaggs Technical Analyst WVARNG – Division of Engineering & Facilities 1707 Coonskin Dr. Charleston, WV 25311 304-561-6550 Robert.a.skaggsii.nfg@army.mil	Cindy Fisher Procurement Administrator WV Dept. Of Agriculture (304) 558-2221 cfisher@wvda.us	
Bob Ashcraft Safety and Ancillary Projects Monongalia County Schools 533 East Brockway Street Morgantown, WV 26501 (304) 657-4079	Dave Parsons Energy Program Manager WV General Services 112 California Avenue Building 4, 5th Floor Charleston, WV 25305 (304) 957-7122 David.K.Parsons@wv.gov	Richard J. Briggs Vice President Lutz Briggs Schultz & Assoc. Inc. 239 Country Club Drive Ellwood City, PA 16117-5007 (724) 651-4406 Ibsa@zoominternet.net	

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"



P.O. Box 558 2155 Park Avenue Washington, PA 15301

#### **General Construction & Consulting**

Phone 724/229-0119 Fax 724/225-1180

To whom it may concern,

As the Vice-President and Lead Project Manager of MacBracey Corporation, a commercial and industrial general contractor located in Washington, PA, I am writing to support and endorse Miller Engineering and their ability to provide construction design services as well as project management.

MacBracey has found Miller Engineering's drawings and specifications to be both thorough and accurate as to the in-field conditions. Any issues that have come about throughout a construction project Miller Engineering is quick to develop a corrective plan and ensured the project doesn't face delays.

I have found Miller Engineering to go above and beyond the industry standard throughout the entire construction process to make sure everything stayed on track. I have spoken with many members of Miller Engineering "after hours" to solve an issue that needed addressed by the following morning. This is a characteristic that you don't see with a lot of design teams.

I found the entire Miller Engineering team to be both knowledgeable and professional. We at MacBracey would enjoy the opportunity to work with Miller Engineering again in the future. It is truly refreshing to work with a design team that has a passion for the industry and is willing to work with everyone involved to ensure the project gets done correctly and in a timely manner.

Sincerely,

Patrick Bracey

Patrick Bracey U Vice President, MacBracey Corporation

### **PENNINGTON PLUMBING & HEATING INC.**

301 George St. Beckley WV 25801

License WV 001456

April 17, 2019

To Whom it May Concern,

Re: Miller Engineering Design Firm

Pennington Plumbing & Heating has worked with Miller Engineering on numerous projects throughout the years, ranging in size from several hundred thousand dollars to several million. We have always found their firm to be professional, competent, and helpful.

We have found that they are always available to help on challenging situations on different projects, and their designs have had great success on the projects that we have been involved with. They have the capability to handle MEP designs of any size and are always open to modifications that allow the owner to save time and money while maintaining the highest quality and design intent.

We would have no issue recommending their firm to building owners seeking design and construction administration.

Should you have any questions please do not hesitate to contact me.

Best Regards,

Eric Mahaffey President.



June 6, 2018

**RE: Miller Engineering** 

To Whom it May Concern,

I have worked on several project with Miller Engineering, over the last few years. Craig Miller and his staff are some of the most detail-oriented engineers I have met. They take extra time, and care, to ensure that their design meets the requirements set forth by the owner and that trades are coordinated properly. Their staff make routine visits to the jobsite to ensure the quality of installation meets their specified standards.

Miller Engineering is also willing to help with value engineering, if required, to meet budgets. However, they are not willing to sacrifice the quality, set forth, in their original design standards. This is an admirable trait in today's engineering world. Many times, value engineering is done without the original designer's review or they may allow substandard products and quality is sacrificed as a result.

In closing, Craig Miller always states that "working with them is different". He's correct. In a world where things are done with little input or involvement by the engineering firm during construction, they stand out as a firm who truly cares. They put thought into their design and the functionality of buildings and the results speak for themselves. Their designs are quality and built to last.

Brian D. Gaudiano

Vice President



## **TAB 4 – EXPERIENCE**





### **Project Experience: Elevators**

## WV GSD Various Elevator Modernizations

**Charleston**, WV

#### **Services Provided:**

- Elevator Evaluation
- Mechanical
- Electrical
- Plumbing
- Fire Alarm
- Fire Protection
- Construction Management

Estimated Budget: \$20M Facility Area: N/A Owner: WV GSD



Project Contact: Pat O'Neill Project Manager WV General Services Division 112 California Ave Charleston, WV 304-957-7133 Patrick.s.oneill@wv.gov



MEI and Richard Kennedy and Associates were retained to evaluate 31 existing elevator systems and design modernizations of each in a three phase project approach. The scope of service includes modernizing the machine rooms and brining the systems into compliance with no or a few variances as possible. The team prepared a detailed report with discussions, estimates, recommendations, executive summary, and an elevator system "primer" to assist readers in more thoroughly comprehending the report. Phase I Involved 7 elevators at the WV Capitol Building, 2 elevators at WV Building 7, and 2 elevators at WV Building 25. The work related to the passenger elevator cars, doors, and landings will be in accordance to guidance from the WV State Historical Preservation Office. Punch list items for Phase I is wrapping up for final completion while Phase II is currently under construction.



## **Project Experience: Elevator**

#### Building 5 Elevator Replacement Charleston, WV

**Services Provided:** 

- Mechanical
- Electrical
- General Trades

Construction Cost: \$545k Owner: State of West Virginia – General Services Division



Miller Engineering was retained by WV General Services Division to design the replacement of service elevator #6 in WV Building 5. The hoisting system including motor generator, cable drive & cabling, sheaves, gear drive,

controls, safeties, & slings are to be replaced. The cars, doors, calls, and indicators will also be replaced. The existing rails and door frames remain in place and will be modified. An existing rail leader which was run inside of the elevator shaft will be concealed with a drywall chase to meet elevator code. The elevator chase will be upgraded with new sump pump, lighting, receptacles, and fire alarm. The HVAC system in the elevator penthouse will be modified to better meet the equipment requirements. The project has specific means and methods called out in order to keep the remaining elevators in operation while #6 is being replaced. The project was completed in 2021.

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



## **Project Experience: Elevators**

### West Virginia State Capitol Complex Charleston, WV

#### **Services Provided:**

- Mechanical
- Electrical
- Plumbing
- Fire Protection

Estimated Budget: \$3.5M Facility Area: N/A Owner: State of West Virginia



The project was implemented in phases by priority, based on initial evaluation of systems for safety, availability of parts, maintainability and owner needs. Some systems had been condemned by the Department of Labor with mechanical and structural concerns requiring complete replacement. Some rope systems were replaced with a hydraulic system to alleviate structural concern. Upon completion of a facility review, Miller Engineering provided detailed evaluation of mechanical, electrical and plumbing systems which support elevator function in multiple buildings throughout the State Capitol Complex. MEP design, preparation of bid documents and construction administration for systems associated with the repair or replacement of the elevators was provided. All systems were successfully brought to

current codes and standards including fire alarm and fire suppression. The facility, a Cass-Gilbert turn-ofthe-century design, was preserved while adding modern equipment.

Project Contact: Dennis Stewart WV General Services Division (304) 558-4590



## **Project Experience: HVAC Upgrade**

### West Virginia State Building 36 (1 Davis Sq.) <sub>Charleston, WV</sub>

**Services Provided:** 

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

Estimated Budget: \$2.1M Facility Area: 58,400 ft<sup>2</sup> 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 was bid and then cancelled by the Owner.

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



## **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 ft<sup>2</sup> 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, rolledgroove 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. The water source heat pumps which serve the building were flushed and cleaned to prevent contamination of the new water. 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



## **Descriptions of Past Projects Completed – MEP**

## Morgantown High School Boiler Replacement/ Area 4 HVAC Renovation

**Services Provided:** 

- Mechanical
- Electrical
- Plumbing
- Fire Alarm

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



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



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

Previous projects installed split DX refrigerant based systems in several classrooms within the science and technology wing. These units were obsolete and required replacement with a more

reliable system, which can meet current ventilation standards. Additionally, there were 3 classrooms, which were heating only with little or no controls that required additions to the overall solution for this section of the building. Based on the conditions of the steam systems piping and devices, new hot water boilers were installed.

This project was completed in late 2017.



## **Descriptions of Past Projects Completed – HVAC Piping**

## Pipestem McKeever Lodge

#### **Services Provided:**

- HVAC
- Plumbing
- Electrical
- Accommodation of Existing Systems

Estimated Budget: \$1.7M Facility Area: 63,000 ft<sup>2</sup> Owner: West Virginia Division of Natural Resources





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

The original HVAC piping at McKeever Lodge had exceeded its lifespan and had been suffering from corrosion leading to multiple leaks, including one causing an electrical service outage. Miller Engineering was hired to investigate the existing piping, discovering all of the some 4,000 linear feet of piping required replacement. As this lodge is regularly occupied for larger conferences, the project had to be phased to minimize the amount of guest rooms taken out of service at one time. MEI also designed provisions to interconnect the lodge's two separate boiler/chiller plants so one plant could operate the entire lodge at a partial capacity while the other plant was replaced and re-piped. This interconnect also allows the lodge to operate in the event of a boiler or chiller outage. Power was provided to new equipment, and motor control centers were added to control the building loop pumps. A new building controls system was installed to allow the plants to run at optimum efficiency while meeting the lodges heating and cooling needs.



### Project Experience: MEP

# Cacapon Lodge Addition & Renovation

**Services Provided:** 

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

Estimated Budget: \$26M Facility Area: 113,000 sq ft Owner: WV Department of Natural Resources

Project Contact: Bradley S. Leslie, PE, Assistant Chief WVDNR State Parks Section (304) 558-2764 ext. 51826



Miller Engineering teamed with Paradigm Architecture to design the addition to the lodge at Cacapon State Park. The addition includes approximately 80 guest rooms, new kitchen and dining areas, a spa, indoor pool, and support spaces. The boiler system was replaced with new efficient modulating boilers and a chiller was added. New chilled and hot water piping was installed to allow for simultaneous heating and cooling of the lodge. The electric service was upgraded with a new main electric room in the addition with distribution panels throughout. The addition contains two passenger elevators and one freight elevator. The project was completed in 2021.



## **Descriptions of Past Projects Completed – Renovation**

### Wesley UMC

#### **Services Provided:**

- Mechanical
- Electrical
- Plumbing
- Fire Protection
- Fire Alarm
- Elevator

#### Estimated Budget: \$1.2M Owner: Wesley United Methodist Church



Photos Courtesy of Mills Group



Project Contact: Michael Mills, AIA The Mills Group Phone: (304) 296-1010

Miller Engineering teamed with the Mills Group to improve ADA access to the Wesley United Methodist Church in Morgantown, WV. The main entrance was renovated and extended to allow for ADA access. The reception / vestibule area between the gymnasium and sanctuary was modified to improve passage between the areas. A passenger elevator was added to allow ADA access from the main lobby to the upper levels. As part of the project, existing areas of the church were renovated. Miller Engineering was tasked with the addition and modification of mechanical, electrical, & plumbing systems to accommodate the new layout, as well as MEP services for the passenger elevator. The front facade of the church was improved as well through accent lighting.



## **Descriptions of Past Projects Completed – MEP**

Mapletown Junior/Senior High School Elevator Addition

#### **Services Provided:**

- Elevator Addition
- MEP Relocation
- Elevator Lobby Construction

Construction Cost: \$440K Facility Area: 18,500 ft<sup>2</sup> Owner: Southeastern Greene School District



Project Contact: Patrick Bracey MacBracey Corporation (724) 229-0119



The Southeastern Greene School District in Pennsylvania made the decision to add an elevator to Mapletown Jr/Sr High School. Miller Engineering was hired to provide design consultation on the project. After walking the facility and meeting w/ facilities staff, it was determined that the loading dock would be the best location for the elevator. A three stop hydraulic elevator will be installed. Miller hired Alpha Associates for assistance with architectural and structural design related to the elevator shaft and new elevator lobby that will be created on the second floor. Existing mechanical, electrical, and plumbing systems had to be relocated for the elevator installation as well as new MEP extended to serve the elevator. The project was completed in July 2017.





## Architecture



## 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 fit out 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. **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 Name Project Type Budget		Cost	Notes
Bluestone State Park	Pool \$1,000,000 \$935,600   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
Mapletown Elevaor	Elevator	\$650,000	\$440,000	On Budget
Mapletown Jr/Sr High School	<sup>/n</sup> HVAC h 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	ct Type Contract Con Length Del		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
Bridgeport FWAATS	Renovation	240 days	196 days	Delivered on time



# **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 Architect/Engr

Proc Folder:	1408333		Reason for Modification:
Doc Descriptio	n; EOI: Elevator Moderniza		
Proc Type:	Central Contract - Fixed	Amt	
Date issued	Solicitation Closes	Solicitation No	Version
2024-04-18	2024-05-30 13:30	CEOI 0211 GSD2400000006	1
2024-04-18	2024-05-30 13:30	CEOł 0211 GSD2400000006	1

<b>BID RECEIVING LO</b>	CATIO	N		 	 
BID CLERK					
DEPARTMENT OF A	DMINI	STRATION			
PURCHASING DIVIS	SION				
2019 WASHINGTON	STE				
CHARLESTON	WV	25305			
US					

VENDOR			
Vendor Customer Code:			
Vendor Name :			
Address :			
Street :			
City :			
State :	Country :	Zip :	
Principal Contact :			
Vendor Contact Phone:	Extension	n:	

FOR INFORMATION CONTACT T Melissa Pettrey (304) 558-0094 melissa.k.pettrey@wv.gov	HE BUYER	
Vendor Signature X	FEIN# -1386	DATE 30 May 2024

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

**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)				
(email address)				

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

(Signature of Authorized Representative) Craig Miller, PE - President 30 May 2024

(Printed Name and Title of Authorized Representative) (Date) (304) 291-2234

(Phone Number) (Fax Number) cmiller@millereng.net

(Email Address)

(Company)

### ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: GSD2400000006

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

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

### Addendum Numbers Received:

(Check the box next to each addendum received)

[~	]	Addendum No. 1	[	]	Addendum No. 6
ĺ	]	Addendum No. 2	[	]	Addendum No. 7
[	]	Addendum No. 3	[	]	Addendum No. 8
[	]	Addendum No. 4	[	]	Addendum No. 9
[	]	Addendum No. 5	[	]	Addendum No. 10

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

1.1	Company
APO,	Authorized Signature
30 May 2024	
	Date

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