

**Engineering Design Services for:
The West Virginia Army National Guard
Office of the Adjutant General**

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WV PURCHASING DIVISION



**MCA SOUTH
FACILITY UPGRADES DESIGN
ADJ2100000007**

MARCH 11, 2021



EST. 1988

OUR MISSION

Pickering Associates is a multi-disciplined professional architectural, engineering and surveying firm providing quality services that meet or exceed our clients' expectations. We are committed to the professional development and technical advancement of our employees. We will continuously improve the delivery of our services through innovation and an entrepreneurial spirit.

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Department of Administration, Purchasing Division
Mr. David H. Pauline
2019 Washington Street, East
Charleston, WV 25305-0130



Mr. Pauline,

Pickering Associates is pleased to have the opportunity to submit this proposal for providing Architectural/Engineering services for the upgrades to the Mountaineer Challenge Academy "South" located in Montgomery, WV. We feel confident our design team is very qualified to provide design services for this project.

Pickering Associates is a premier all inclusive A/E Firm located throughout West Virginia and Ohio and headquartered in Parkersburg, WV. Our office in Charleston would take the lead on this project. The following proposal outlines our technical expertise, management, staff capabilities and experience for providing high-quality engineering and architectural services. Our approach will offer advantages in methodology and delivery, which will elevate the success of your project both now and for years to come. Our firm will provide full architectural and engineering services in house to complete the scope of your project.

You will see that teamwork is the spirit and foundation of our organization. We acknowledge the importance of a quick turn-around and excellent quality services which our administrative procedures, overall organization and depth of experience are posed to provide you. As you will see from our resumes and company experience, we are qualified to offer the professional services required and to ensure that your project becomes a reality.

Renovation of existing buildings is my specialty. I really enjoy accessing an existing structure and designing a solution to meet an Owner's new needs. We use a 3-D Scanner to accurately document all current building information. We then convert that information into a revit model.

I look forward to personally discussing our qualifications to complete this project on time, within budget and exceeding the standards of any firm you may have worked with previously.

Respectfully submitted,

A handwritten signature in red ink, which appears to read 'Sean G. Simon', is written over a horizontal line. To the right of the signature, the text 'AIA, NCARB' is written in the same red ink.

Sean G. Simon, AIA, NCARB
Branch Manager/Project Manager/Senior Construction Administrator
304.991.6275
ssimon@pickeringusa.com

ABOUT THE COMPANY

Founded in 1988, Pickering Associates has been providing architectural, engineering and surveying services throughout West Virginia and Ohio for the past thirty years.

Our company is the product of three generations and more than 75 years of construction experience. This experience plus state-of-the-art engineering practices create a full-service, multi-discipline, architectural, engineering and surveying firm serving a wide range of needs and featuring innovative, customized solutions. Our highly qualified staff includes licensed professional engineers, professional surveyors, licensed architects, designers, and drafters as well as support personnel.

The disciplines we cover include architecture, surveying, project management, civil engineering, structural engineering, mechanical engineering, electrical engineering, process engineering, automation and control, and construction administration. Pickering Associates specializes in the above listed disciplines with education, government, healthcare, industrial, oil & gas and private sector clients.



**“WE ARE
COMMITTED TO THE
PROFESSIONAL
DEVELOPMENT AND
TECHNICAL
ADVANCEMENT OF
OUR EMPLOYEES.”**

ABOUT THE PEOPLE

In choosing Pickering Associates, your project will be performed to your specifications with frequent meetings and status reports to keep you up-to-date on the status of the project. Our sole focus is your full satisfaction with the completed quality installation.

Successfully executing more than 10,000 projects in its history, the firm has built a tremendous wealth of experience gaining insight into what works for each of our client types. Those lessons learned add substance to our work and provide our clients with unparalleled value.

Our objective is to partner with our clients improving their performance, flexibility, life-cycle cost, sustainability and ultimately well-being.

LEADERSHIP

V.P. of Marketing & Development

Traci Stotts, AIA, NCARB
Architect

C.E.O. & President

Ryan Taylor
Sr. Project Manager

Executive V.P. of Design

David Boggs, P.E., CPD
Sr. Mechanical Engineer

V.P. of Projects

Zac Campbell, P.M.P.
Sr. Project Manager

V.P. of Construction

Mark Welch, P.E.
Sr. Project Manager

DEPARTMENT LEADS

Civil Engineering

Spencer Kimble, P.E.

Electrical Engineering

Carl Henson, P.E.

Mechanical Engineering

Jeff Hosek, P.E. LEED AP (BD+C)

Piping Engineering

Patrick Flora, E.I.

Structural Engineering

Eric Smith, P.E.

Architecture

Traci Stotts, AIA, NCARB

Building Information Modeling

Chris Algmin, AIA, NCARB

Construction Administration

Ronald Arnold

Surveying

Bill Showalter, P.S.

BRANCH MANAGERS

Athens

John Bentz, P.E.

Charleston

Sean Simon, AIA, NCARB

Fairmont

Pamela Wean, AIA

YOUR PROJECT

Project Owner



The West Virginia Army National Guard
Office of the Adjutant General



LEADERSHIP

Project Manager

Sean G. Simon, AIA, NCARB
Project Manager

- Direct Design Leads throughout project.
- Coordinate with client regarding status of project on a weekly basis.
- Coordinate design deliverables to client.
- Attend Review Meetings

DESIGN TEAM

Architecture

Pamela J. Wean, AIA

HVAC Engineering

Jeff Hosek

Building Information Modeling

Nick Arnold

Structural Engineering

Eric Smith, P.E.

Plumbing Engineering

David Boggs, P.E.

Surveying

Bill Showalter, PS

Civil Engineering

John Bentz, P.E.

Electrical Engineering

Mark A. Moore, P.E.

Geotech

Kanti Pate, P.E.
American GeoTech

YOUR PROJECT

Goal/Objective 1:

Provide a design including all engineering and architectural disciplines to prepare construction bid documents for West Virginia State Purchasing. Key design elements include but are not limited to: a permanent building capable of housing two boilers, one for heating purposes, one for domestic hot water, and a maintenance bay. Also, demolition plans for the existing structure that currently contains the boilers. Design a remodeling plan for restrooms and showers, design a security door swipe system with additional surveillance cameras, and design additional restrooms. All electrical and mechanical systems will be provided within the design to support the facility. Cost effective energy conserving features will also be incorporated.

Pickering Associates takes personal pride and endeavors to produce an accurate and well-coordinated set of construction documents for every project that we work on. We are very familiar with West Virginia State Purchasing procedures and guidelines.

Goal/Objective 2:

Architect will provide all geotechnical work to include any necessary drill borings, designer shall be responsible for researching and investigating the location of existing underground and above ground utilities. Architect will also provide drawings and specifications of any and all utility and road infrastructure as needed and directed by the owner and/or state agency, utility company or other utility approval authority for Montgomery, West Virginia.

At Pickering Associates, we understand the importance of keeping the Client informed and engaged throughout the entire design and construction process. It is crucial to the project to get the Client involved early in the process along with other key stakeholders, in order to understand the needs of the facility. Our plan would be to engage the key stakeholders in regular design meetings to ensure expectations and schedules constraints are met.

Pickering Associates has several survey crews and is very familiar with documentation of existing infrastructure and it is something we do every day. We have a long history of working with American Geotech and would use that firm for all geotechnical work.

Our design process will begin with schematic design. We feel that time spent with your staff to better understand the project, will allow us to be more efficient in completing the schematic design phase for this project and progress us to the next phase quicker than our competitors, therefore allowing us to meet your anticipated design schedule.

We always involve the authorities-having-jurisdiction during the schematic design to make certain that we address any and all concerns that they may have, thus reducing costly changes during design and/or construction. We have a close working relationship with agencies such as the West Virginia State Fire Marshal's Office and are familiar with the local and state requirements that need addressed for a wide range of projects. At the end of the schematic design phase Pickering will present rough sketches to the owner for approval. These sketches will provide the owner with the opportunity to verify that we have correctly interpreted your desired functional relationships between various activities and spaces. The sketches will also provide the client with a general indication of the exterior design and overall look of the addition. Once schematic design is complete, we will move into the design development phase for the project.

The design development phase is a transitional phase where the design team moves into developing the contract documents. In this phase, the architects and engineers prepare drawings and other presentation documents to crystallize the design concept and describe it in terms of architectural, electrical, mechanical, and structural systems. In addition, we will also prepare an estimate of probable construction costs so you will have a better indication of anticipated project costs. By preparing this estimate early in the design process, it will allow us to identify potential cost savings that may be required to keep the project within your anticipated budget. At the end of the design development phase, the architect will provide the client with drafted to-scale drawings that will illustrate the project as it would look when it's constructed. These drawings will specifically define the site plan, floor plans and exterior elevations. It is important that the client provide input to the architect at this time as the design development drawings are used as the basis for the construction drawings and used to further develop and refine the estimate of probable construction costs for the project.

Once the Owner has approved the design development phase, the Architect prepares detailed working drawings, thus progressing into the construction document phase of the project. During this time, final drawings and specifications are produced for the project. These documents will be used for bidding the project to con-

YOUR PROJECT CONTINUED...

tractors. These drawings and specifications become part of the construction contract. The construction documents will include all necessary information to ensure that the project will be constructed as conceived by the Owner and design team. Renderings and/ or a physical 3D model can also be prepared (if desired by the client) to accurately portray the final design and to use as a marketing tool.

Goal/Objective 3:

Drawings and specifications are to be submitted along with cost estimates for organizational review.

Pickering Associates will work with milestone submittals as requested. Typically we submit at 30%, 60%, 90% and 100%. But we can set any percentage milestone the Owner would prefer. We always submit cost estimates with the document submissions. Pickering uses RS Means data base to do cost estimating. Our cost estimates are line item estimates. We do not use square foot cost estimates.

Goal/Objective 4:

Designer shall be responsible for researching and investigating the location of existing utilities, and to provide drawings and specifications of any and all utility changes.

This goal/objective goes along with goals #1 and #2. Pickering Associates will use our survey crew to document the existing utilities. The design documents will show all required changes to the existing utilities.

Goal/Objective 5:

Drawings and specifications at 35%, 65%, 95% and 100%. Designer may submit 35%, and 95% drawings and specifications digitally; 100% construction documents are to be submitted both digitally and 3 hard copies. Cost estimates are to be divided into three categories sustainment, restoration and modernization; definitions of such will be provided to the awarded firm. Also, energy savings items, example, windows and LED lights are to be identified and their associated costs.

This goal/objective is exactly the way Pickering Associates approaches most projects. We will be glad to break

down the cost estimate into any categories desired by the Owner.

In order to provide estimates for probable construction costs with accuracy, Pickering subscribes to and utilizes RS Means CostWorks On-Line. This tool provides comprehensive, localized, and up-to-date construction costs to help us create reliable estimates for our projects.

We know the importance of not only understanding our client's budget, but also ensuring that the project is designed to fit into (and stay within) that budget. When an exterior addition is involved, we do our best to give our client a project that will not only looks nice, but also provide a design that will fit into the context of the existing facility by making it look like it belongs. We do not feel that it is appropriate to over-design a project to make a statement – thus increasing construction costs and making it difficult to stay within the client's project budget. We believe that it is more important to design features into the project that will allow for a better functioning project.

We utilize cost control methods to make sure that the overall project budget does not increase without the client's knowledge or prior approval. We typically provide an updated estimate of probable construction costs for each phase of design, thus monitoring and providing control for the project budget. If scope items are added to the project during the design phase we make certain that the client understands the implications and costs associated with each change or addition - prior to officially adding it to the project.

Goal/Objective 6:

Provide construction bid services to the Owner.

- 1. Competitive Bid Assistance - Vendor will assist Agency in the competitive bidding process for construction as needed with responses to questions and answers, design/specification modifications and addenda preparation.**
- 2. Construction Administration - Vendor will perform construction administration services during Construction.**

Pickering Associates can handle the bidding & negotiation phase of the project with our experienced in-house construction administration team. We have systems in place, and are equipped to electronically distribute the bidding documents to contractors and equipment suppliers interested in bidding the project, as well as, produce hard copies as required. We will assist in contacting contractors to get interest in bidding the project, answer requests for information during the bidding process, assemble addendums, schedule, coordinate and lead a pre-bid meeting, and assist the owner with

YOUR PROJECT CONTINUED...

bid opening and contractor evaluation. During construction administration Pickering Associates can be an agent of the owner, overseeing construction to ensure conformity to construction drawings, specifications, and standards. Pickering will assist the owner in awarding the contract, lead and coordinate weekly construction meetings, produce meeting agendas and meeting minutes, answer RFI's from contractors, review submittals, process change orders and pay applications, perform regular site visits, complete a punch list at the end of the project, and keep the owner informed throughout the entire process. This closely monitored process helps to ensure that the final project represents the intended design as indicated in the construction documents.

Our Unique Qualities:

We believe that Pickering Associates has many unique qualities that set us apart from other firms. Below is a list of qualities that we feel are worth calling attention to:

- 1) Full Service Firm: Pickering Associates is a Full-Service A/E firm. We have all architects and engineers in-house, including surveyors. Being a full-service design firm, we can effectively and efficiently communicate with our entire team thus ensuring a well-coordinated design effort.
- 2) Our Experience: We have completed other design projects that are similar to your renovation project and have assembled an experienced project team that works well together. We understand the needs of your facility and believe that our work with the WVDNR on prior projects gives us an insight to the scope and design that other firms may not offer.
- 3) Our Technology: Pickering Associates uses Building Information Modeling (BIM), 3D Scanning, Virtual Reality, and 3D printing technology in developing our project concepts throughout the design process, as needed. These tools also allow for us to better communicate the final layout and look of the project with our clients and allows our clients to experience what the project will look like prior to construction.
- 4) Our Communication: Our Project Manager will provide consistent communication with all project stakeholders throughout the project design. We make sure that the project scope and schedule are aligned with the project requirements, and the client's desires and expectations.



AMERICAN GEOTECH, INC.

Qualification Statement

American Geotech, Inc. (AGI) is a consulting engineering firm specializing in the practice of geotechnical, environmental and testing engineering practicing over 25 years. The ownership of AGI represents over 70 years of combined engineering experience including completion of geotechnical, testing, environmental and asbestos testing projects in West Virginia, Virginia, Ohio, Kentucky, Maryland, and Pennsylvania. American Geotech, Inc. staff includes fourteen (14) full time personnel and four (4) part time personnel. In our professional staff there are three geotechnical engineers, two geologist, one environmental scientist, eight soil technician, and one secretary.

With its office centrally located in Charleston, West Virginia, AGI can effectively assist owners, architects, planners, design engineers, and contractors in all phases of project design, development, and property utilization throughout the Mid-Atlantic region of the United States. Utilizing proven technology and experience, AGI can work closely with its clients to initiate and complete a variety of engineering projects in a professional and effective manner.

AGI has established a full service for soils testing laboratory in its Charleston office. The laboratory is fully equipped for the performance of soils testing services in accordance with standards published by American Standard Testing Materials (ASTM) and American Association of State Highway and Transportation Officials (AASHTO).

Geotechnical Engineering Services

Standard geotechnical engineering services which AGI can contribute to a project includes:

- Site exploration and recommendation for Site Development
- Analysis and design recommendations for both shallow and deep foundation systems
- Exploration, analysis, and design recommendations for highway and airport construction
- Slope stability analysis including retaining system design
- Geotechnical analysis and design of Earthen Dams and solid waste landfills
- Exploration and analysis of utility line installation and construction

Testing Engineering Services

Standard soils testing services which AGI can contribute to a project include:

- Classification testing of Soils and Rock
- Strength testing of soils including Unconfined Compression, Triaxial and Direct Shear Testing
- Compressibility and consolidation Testing of Soils
- Standard and Modified Proctor Tests for Moisture-Density relationships.

Environmental Engineering Services

Standard environmental services which AGI can contribute to a project include:

- Performance of site assessments for property sales or transfers including Phase 1, 2, and 3 investigations
- Assessment and removal of Underground Storage Tanks (UST)
- Performance of Hydrogeological studies for monitoring well installation, development, sampling, and evaluation
- Design, installation, and maintenance of soil and groundwater systems
- Compliance sampling and monitoring
- Remedial investigations and feasibility studies



WHAT FULL SERVICE MEANS

CIVIC

For owners and designers, civic buildings present a unique set of challenges and opportunities in an effort to maintain, renovate and expand services provided within the facility as well as service a wide range of individuals all with different needs and abilities. While some civic projects allow a design team to start from the ground up, many civic building projects involve the adaptive reuse of an existing facility or an addition to an existing facility in order to facilitate the owner's continued demand for growth. It is also important for owners to find a team with the depth of experience in dealing within the restrictions of limited budgets, governing regulations, multiple phase oversight and approving agencies.

Civic buildings also present a unique design for the team selected for a project by the fact that potentially every component of the design will be subjected to an expanded range of users that are normally not present in other facility designs. Pickering throughout the years has been able to engage with many civic organizations to provide design and consultant services on multiple projects including court room designs, upgrades and renovations, 911 Command Centers, office facilities, fire stations, and conference centers.

Our depth of experience and staffing provides owners with the knowledge and resources to execute their projects effectively. We understand and execute projects to create facilities which meet ADA compliance, higher security through knowledgeable design practices and the use of technology, greater occupancy safety while providing our clients with scheduled phase

gate review points for proper oversight and approval, concise project management to maintain budget and schedule oversight and assistance throughout the review and approval process with governing agencies.

OUR APPROACH

With the selection of Pickering Associates, your organization gains the full depth of our organization. All projects are scheduled out through all phases of delivery by our resource manager and the project manager, assigning the necessary resources to perform to the schedule necessary for that project and highlight major milestones long before they could become an issue. With more than 60 professionals on staff, you can be confident that Pickering Associates has the resources to meet your project schedule. Because we are a full-service firm, we are able to provide a better coordinated project than firms who are required to use outside consultants. We organize regular in-house project team coordination meetings throughout the design phases of a project to discuss and resolve any issues or concerns that may arise. We feel that this face-to-face coordination with our design team is more effective and efficient than coordinating via email or over the phone.



Our close coordination efforts have proven valuable in many cases where the design schedule is accelerated and/or where there is equipment in the project that requires the effort and coordination of several disciplines.

Pickering Associates has invested in state-of-the-art 3D Scanning technologies to more quickly and accurately document existing site conditions. This helps our design teams capture existing site data in more detail and in a format that blends well with our 3D modeling and BIM workflows. This tool allows us to send a small scanning team into an existing building/space and virtually document the conditions of the area in three dimensions, including detailed color photographs throughout the scanned area for design teams to reference throughout the project. This data capture implementation is safer and more efficient for our designers. It reduces the time and equipment needed for traditional hand-measuring that our industry has been accustomed to throughout the years.

By working with Pickering Associates you will see that teamwork is the spirit and foundation of our organization. We acknowledge the importance of a quick turn-around and excellent quality services which our administrative procedures, overall organization and depth of experience are posed to provide you. As you will see from our resumes and company experience, we are uniquely qualified to offer the professional services required and to ensure that your vision becomes a reality.

OFFICE LOCATION:

318 Lee Street, West
Suite 200
Charleston, WV 25302

CONTACT INFORMATION:

Sean G. Simon, AIA, NCARB
Branch Manager/Project Manager
(P) (304)345-1811 EXT: 1116
(E) ssimon@pickeringusa.com

SERVICES:

Architecture
Interior Design
3D Model Design
Landscape Architecture
Civil Engineering
Structural Engineering
Electrical Engineering
Automations & Controls
Mechanical Engineering
Piping Engineering
Process Engineering
Surveying
Marketing Development
Construction Services
Project Management

Rated as one of the
TOP
Engineering Firms in
West Virginia.

- *The State Journal*



WHAT'S THE BIM IDEA?

Pickering Associates "IDEA" is our Integrated Design Execution Approach.

Integrated - we want our clients, contractors and end users engaged in the process of design. When the right people are involved, accessing the best information, good decisions are made.

Design Execution- refers to how we develop and optimize your project. We focus on the questions that have the most impact. We assign the right staff with the right tools

Our Approach- recognizes that projects are constantly changing and evolving as the project progresses. We tailor a plan for the project objective, maintain and monitor it so it remains optimized to achieve project goals, faster.

Pickering Associates' Integrated Design Execution Approach - our "IDEA", is a big deal, and will help your project be successful.

Building Information Modeling is a process that aligns to all aspects of our "IDEA". It is integrated, allowing easy access to project information. The software we use help understand the proposed design, coordinate, and identify the critical problems that need answers. Most importantly, Building Information Modeling is a process that fits with our Approach. Allowing the project team to evolve seamlessly as more information is available and new stakeholders are brought onto the team.

Efficient visual communication and an in-depth design understanding are the greatest assets that BIM brings to the table at Pickering Associates. The composite model allows our team to accelerate project development and simplify conversations during design reviews. Having the capability to visualize all of the design models together in a single review session aides both inter- and intra-department collaboration with all

project stakeholders like never before. Capturing all client and designer comments and feedback within a 3D model live during a review session saves countless hours of paging through "redlines" generated from traditional 2D physical paper reviews. The added capacity to search and export reports of these digital comments allows our team to capture and track design communications more efficiently than ever before.

Pickering Associates has invested in state-of-the-art 3D Scanning technologies to more quickly and accurately document existing site conditions. This helps our design teams capture existing site data in more detail and in a format the blends well with our 3D modeling and BIM work flows.

This tool allows us to send a small scanning team into an existing building/space and digitize the as-built conditions of the area in three dimensions, including detailed color photographs throughout the scanned area for design teams to reference throughout the project. This data capture implementation is safer and more efficient for our designers. It reduces the time and equipment needed for traditional hand-measuring that our industry has been accustomed to throughout the years. Granting our designers the ability to measure from a 360 degree image or point cloud with higher accuracy and faster than field measurements.

Building Information Modeling is a process that starts at integrating the team, provides access to project information, incorporates tools to understand design execution, and allows teams to focus on what matters most for the project. It perfectly complements Pickering's Integrated Design Execution Approach, and we can't wait to show you BIM and our "IDEA"s!

EXAMPLES OF PAST PROJECTS/GOVERNMENTAL

West Virginia Army National Guard Charleston, WV

Kenova Vehicle Exhaust HVAC Upgrades
Camp Dawson Building 215 Windows and Door Replacements
Camp Dawson Rappel Tower Renovation
Camp Dawson Structural Repairs
Eleanor Readiness Center HVAC Renovations
Camp Dawson Airfield Support Facility
Camp Dawson Cottages Renovations
Camp Dawson Bldg 215 Medical Wing Renovation

State of West Virginia Charleston, WV

Building 8 - Evaluation
Building 22 - Renovation

West Virginia Department of Natural Resources Charleston, WV

Chief Logan Pump
New District 6 Office Design

City of Marietta Marietta, OH

Phase 1,2,3 Marietta City Hall Renovations
City Hall Roof Replacement
Armory Structural & Reroofing
Duckbill Outfall
Water Treatment Plant Solids Contact Tank Painting
North Hills Elevated Water Tank
Channel Lane Culvert
Harmar & 676 Elevated Water Tanks
Sherry Dr/Hadley Ln Water LN Replacement
Additional Survey-Sherry Dr/Hadley Water
Greene ST/Colegate Dr Waterline Replacement
Armory Ground Floor Renovations
Marietta Waste Water Treatment Plant Phase 2 Services
Armory Elevator

City of Parkersburg Parkersburg, WV

Engineering Assistance with Boiler I
Old Sumner School Site and Building Evaluation
Downtown Electrical Lighting Design
Emerson New Fire Station Design & Construction Administration

Covert Street New Fire Station Design & Construction Administration
Liberty Street New Fire Station Design
City of Parkersburg Master Planning Design

City of Vienna Vienna, WV

New Building Addition for Police Phase 1&2
Police Department Redesign
New Senior Center Addition

Vienna Volunteer Fire Department Vienna, WV

Vienna Volunteer Fire Station Addition
Police Station Generator Renovation

HAPCAP

Athens, Hocking, Perry, OH

South East Ohio Foodbank Freezer
Elevator Addition

Parkersburg Utility Board Parkersburg, WV

Repair Martown Reservoir Communication
Add radio & PLC to Pettyville site
Quincy Street SCADA

Putnum Water Corporation Marietta, OH

Pump Controls Call-Out
Solar Panel Call-out 10/2010
New Water Plant SCADA Installation
Additional Water Plant SCADA Installation
Robinson Road Waterline
Chevy Chase Manor Water Line

Parkersburg & Wood County Library Parkersburg, WV

Library Sign Foundation
Emerson Library Roof Replacement
Emerson Library Renovation & New Entry Addition

Lubeck Utility Board Lubeck, WV

Troubleshooting Device Net
Lookout HMI to Panelview SE Display
Install Pressure Filtration Sys PLC

EXAMPLES OF PAST PROJECTS/ K - 12 EDUCATION

Kanawha County Schools

West Virginia

Alum Creek Elementary Addition and Renovations

Wood County Schools

West Virginia

Williamstown Elementary School New location Design

Parkersburg High School Library HVAC Renovation

Parkersburg High School Roof Replacement

Parkersburg South High School Field House Roof Replacement

Jefferson Elementary School 2nd Floor HVAC Renovation

Parkersburg High School Field house Electrical Upgrade

Lubeck Elementary Entry Stair Repair

Parkersburg High School Field House Roof Replacement

Parkersburg South High School Building 3 Column Repair

Erickson Field Sink Hole Repair

Blennerhassett Middle School Kitchen HVAC

2014 Roof Repairs and Replacements (Various Schools)

Edison Middle School Pump Replacement

Jackson Middle School HVAC Replacement

Edison Middle School Addition and Renovations

Structural Roof Evaluation at various Wood County Schools

Lubeck and Jackson Roof Replacement

Criss and Gihon Roof Replacement

Williamstown High School Bleacher Modifications

Martin Elementary School Chiller

Edison Middle School Foundation and Slab Repair

Jackson Middle School Structural Repair and Modifications

WCTC Welding Shop Ventilation

Hamilton Middle Boiler Replacement

Jefferson Gym Roof Replacement

2015 Roof Repairs (Various Schools)

Criss Elementary Grease Interceptor

2016 Roof Repairs (Various Schools)

Madison Elementary Grease Interceptor

Blennerhassett Middle Structural Repairs

Franklin Elementary HVAC Renovations (Multi-year Phased)

Martin Elementary HVAC Renovations (Multi-year Phased)

2017 Roof Replacements (Various Schools)

2018 Roof Replacements (Various Schools)

PHS Library HVAC Renovations Erikson All Sport Facility Toilet and Concussion Stand

Jackson Middle School Toilet Room Renovation

Hamilton Middle Brick Repairs

McKinley Elementary Ceiling Replacement

Food Service Warehouse Freezer Addition

Lubeck Elementary Gym Floor Refurbishment

Emerson Elementary HVAC Replacement

Parkersburg High School Auxiliary Gym HVAC Replacement

Mid-Ohio Valley Technical Institute

West Virginia

Diesel Technology Addition

Welding Lab Renovations

Pendleton County Schools

West Virginia

New Franklin Elementary School

Pendleton County Schools

West Virginia

Belmont Elementary School Renovations

Randolph County Schools

West Virginia

Homestead Elementary School Roof Replacement

Harman School Renovations

Marion County Schools

West Virginia

New East Fairmont Middle School

East Fairmont Gymnasium Renovations

East Fairmont Middle School Football Field

Mannington Middle School Window Replacement

Fairmont Senior High School Renovations

East Fairmont High School Structural Report

Marion Co. Technical Center Renovations

Marion Co. Board of Education Office Renovations

Master Planning for Marion Co. Schools (Multiple Schools)

Harrison County Schools

West Virginia

Harrison County Schools - Bridgeport High School

Canopy Replacement

EXAMPLES OF PAST PROJECTS/ HIGHER EDUCATION

Ohio University

Athens, OH

East Green Storm Sewer
Cutler Hall Electrical Services
BioChem Facility Power Upgrade
Wolfe St. & Ollum Apartments Electrical
Chilled Water Vaults Electrical Requirements
East Union Street Chilled Water Extension
Computer Service Center PHI
Clippinger Lab Study
Innovation Center Lab Renovations
Clippinger Research Annex-Electrical
Stocker-Electron Microscope
Chillicothe-Shoemaker Boiler
Crawford Structural Repairs
Utility Tunnel Reconstruction
Storm Water Outfall at Dairy Run
Brown Hall Structural Repairs
Ryors Annex Assessment
Refrigeration Detection Study
Shively Vestibule Study and HVAC Coil
Crawford Hall AHU Replacement
Lancaster Theater Lighting
Botanical Research Bldg Flat Re-Roof
Glidden Hall Room 400 HVAC Upgrade

Ohio Valley University

Vienna, WV

Room 139 Renovation
Multi-Purpose Building Rendering
Boiler Replacement
2015 Master Plan

University of Charleston

Charleston, WV

Innovation Center New Design

Marietta College

Marietta, OH

Repair PLC Activity Center
PLC Failure Call-Out 2/8/11
Pioneer Dorm Solar Energy
Dorothy Webster-Sprinkler Main Design
Dormitory Fire Code Review
Fire Code Review-Various Buildings
Harrison Roof Repair Observation
Irvine Hall Renovations
Soccer Field Renovation

Mills Hall Renovation
Physicians Assistant Classroom Renovation
Brown Hall Model
South 4th and 5th Masterplan
Beiser Field Station
Music Therapy Renovations Phase 1 & 2
Band Hall Renovations
Student Center Renovation

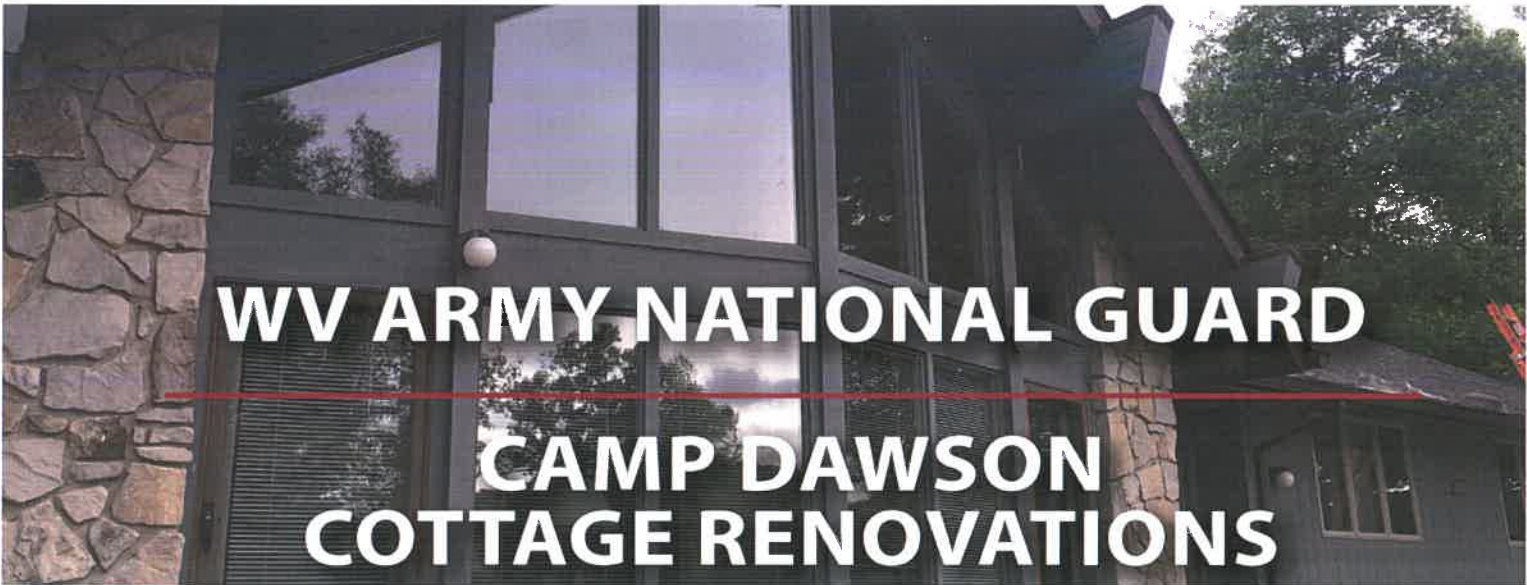
West Virginia University at Parkersburg **Parkersburg, WV**

One Stop Enrollment Center Addition
Second Floor Nursing Lab Renovation
Ceramic Lab Renovation
Caperton Center Chiller
ATC Parking Addition
Caperton Center Exterior Repairs
Main Building Fire Alarm Upgrade
Caperton Center HVAC
Elevator Control Upgrades
Theatre Renovations
Salt & Motorcycle Storage Building
Downtown Facade Renovations
4th Floor HVAC VFD
Building Structural Assessment
Grating Load Rating
Main Entrance Door Replacement
Student Lounge Floor Covering
Caperton Parking Lot Repavement
Access Control Main Building Phase 1&2
Multipurpose Room RTU Replacement
Science Wing Sprinkler
Child Development Center Playground
Welcome Center Renovations
Welding Tower Addition
WVUP-4th Floor HVAC Replacement
WVU-Main Parking Lot Re-Surfacing
Campus Masterplan
Jackson County Center Roof Projects
Mold Remediation and Upgrades
Toilet Renovations
Center for Early Learning Generator

Washington State Community College

Marietta, OH

Parking Lot Renovation
Roof Replacement
ADA Restroom Renovations



WV ARMY NATIONAL GUARD

CAMP DAWSON COTTAGE RENOVATIONS

PROJECT SPECS:

PROJECT COST
EST \$1.25 MILLION

SQUARE FOOTAGE 3 COTTAGES:
 1300 SF
 2700 SF
 3400 SF

DESIGN COMPLETION
75% COMPLETE

CONSTRUCTION COMPLETION
TBD

SERVICES PROVIDED

- ARCHITECTURAL
- STRUCTURAL
- CIVIL
- ELECTRICAL
- MECHANICAL
- PLUMBING
- CONSTRUCTION MANAGEMENT
- PROJECT MANAGEMENT

CLIENT CONTACT

JONATHAN NEAL
DEPUTY BRANCH CHIEF
TRAINING SITE BRANCH
P) (304) 791-4138
E) JONATHAN.I.NEAL.NFG@MAIL.MIL

The West Virginia Army National Guard selected Pickering Associates to design improvements to three residential cottages at their Camp Dawson facility in Kingwood, WV. The cottages are used by traveling staff and visitors at the base. Each cottage has its own style, ranging from rustic to elegant, and will receive upgrades and improvements inside and out.

Renovations include new exterior siding and stone, windows, doors, and site improvements such as new patios and ADA ramps. Interior upgrades include total energy-efficient HVAC and lighting replacement, electrical improvements, new plumbing fixtures, fully remodeled restrooms and kitchens, and new interior doors. Some rooms will be redesigned to create an open floor plan in the living/kitchen areas, and some guest rooms will be provided with new private bathrooms where they were originally shared between rooms. In addition, all flooring and trim will be replaced, and all walls and ceilings will be painted or covered. New gas fireplaces will be installed in all three cottages, and all units will be upgraded to be compliant with ADA.

Once complete, the cottages will be virtually entirely renovated for improved comfort, energy efficiency and safety for all guests and visitors.



WVANG - CAMP DAWSON

RAPPEL TOWER SUPPORT RENOVATION

PROJECT SPECS:

ESTIMATED PROJECT COST
\$425,962

DESIGN COMPLETION
APRIL 2019

CONSTRUCTION COMPLETION
TO BE DETERMINED BY OWNER

The West Virginia Army National Guard Command was seeking architectural and engineering professional services for the restoration of the Rappel Tower Support Facilities at Camp Dawson. The Rappel Tower Support Facilities consists of two (2) pre-fabricated concrete buildings; one of which is a classroom building, and the other restroom facilities. Each building has some structural and sustainment issues that need to be addressed both structurally and mechanically. This facility will be used by soldiers in training.

The design elements for the project generally included abating mildew and molded wall board and material from classroom area, addressing roof issues, storm drainage, design for new HVAC systems, new instantaneous domestic hot water system, restroom renovations, and new interior and exterior LED lighting for both buildings.

During the development and progression of design scope it was determined that the electrical service to the classroom building and the electrical distribution panel in the restroom building were insufficient to power the necessary and needed HVAC systems to meet the request to air condition the restroom building of the project. Pickering Associates addressed this additional scope with no delay in the schedule.

SERVICES PROVIDED

- ARCHITECTURE
- CIVIL
- ELECTRICAL
- MECHANICAL
- STRUCTURAL
- CONSTRUCTION MANAGEMENT

CLIENT CONTACT

JONATHAN NEAL
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WV ARMY NATIONAL GUARD

KENOVA SHOP VEHICLE EXHAUST

PROJECT SPECS:

PROJECT COST
\$130,000

SQUARE FOOTAGE
N/A

DESIGN COMPLETION
APRIL 2019

CONSTRUCTION COMPLETION
JANUARY 2020

SERVICES PROVIDED

MECHANICAL ENGINEERING
ELECTRICAL ENGINEERING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

DAVID UNRUE
PROJECT MANAGER
P) (304) 561-6775
E) DAVID.R.UNRUE.NFG@MAIL.MIL

Pickering Associates provided professional engineering services to The West Virginia Army National Guard for the renovations to an existing vehicle exhaust system in the field maintenance shop (FMS) at their Kenova facility. The renovations had to meet the HEMTT vehicle exhaust flow rate of 500 cubic feet per minute (CFM).

The scope of work included replacement of two existing engine exhaust fans with two new fans including two hose reels per system, for a total of four. Project included documentation of existing building, development of construction documents, preparation of probable construction cost, bidding, contracting and construction administration.



WVANG - CAMP DAWSON

BUILDING 215 WINDOW AND DOOR REPLACEMENT & MEDICAL WING RENOVATIONS

PROJECT SPECS:

ESTIMATED PROJECT COST
\$

DESIGN COMPLETION
SPRING 2019

CONSTRUCTION COMPLETION
SUMMER/FALL 2021

The West Virginia Army National Guard Command was seeking architectural and engineering professional services to renovate Building 215 at Camp Dawson. This facility houses West Virginia National Guard troops for training and Medical Wing.

Two separate projects will take place. One project will include complete replacement of doors and windows with new blast-resistant exterior doors and windows and all new interior doors. The second project includes complete demo and reconstruction of the medical wing to provide new waiting rooms, exam rooms, a dental suite, EKG room, hearing testing and multiple private offices, consultation rooms and restrooms.

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
PLUMBING
CONSTRUCTION ADMINISTRATION

CLIENT CONTACT

JONATHAN NEAL
DEPUTY BRANCH CHIEF
TRAINING SITE BRANCH
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E) JONATHAN.I.NEAL.NFG@MAIL.MIL





WVANG - ELEANOR ARMED FORCES CTR

HVAC RENOVATIONS

PROJECT SPECS:

PROJECT COST
\$646,400

DESIGN COMPLETION
AUGUST 2020

CONSTRUCTION COMPLETION
FEBRUARY 2021

The West Virginia Army National Guard hired Picker- ing Associates for HVAC engineering services for the renovations to the existing Eleanor facility.

This project included replacement of four roof top units and one roof top energy recovering unit. The new energy recovery unit also corrected an existing problem of too much humidity in the locker room. Another part of the project, a new building control system was installed to monitor and control all HVAC units. The new control system with graphics of the floor plan as well as all components makes monitor- ing and adjustments very easy.

The project was completed while the building was occupied with minimal disruption to the troops inside.

SERVICES PROVIDED

ELECTRICAL
MECHANICAL
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

DAVID UNRUE
PROJECT MANAGER
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E) DAVID.R.UNRUE.NFG@MAIL.MIL





WVANG - CAMP DAWSON

AIRFIELD SUPPORT FACILITIES RENOVATION

PROJECT SPECS:

ESTIMATED PROJECT COST
\$992,240

DESIGN COMPLETION
SPRING 2021

CONSTRUCTION COMPLETION
TO BE DETERMINED BY OWNER

The West Virginia Army National Guard selected Pickering Associates to design renovations to two existing buildings which serve as support facilities for the airfield at Camp Dawson.

One building is a single story structure that provides temporary lodging for pilots while onsite. Renovations will include all new blast-resistant exterior doors and windows, new interior doors, upgraded plumbing, HVAC and electric, and all new interior finishes.

The other building is also one story, and houses the control room for the airfield, and miscellaneous offices. Renovations will include all new blast-resistant doors and windows, a new roof, new interior doors, construction of new offices, a conference room, a new ADA restroom, and a garage for a utility vehicle. In addition, the building will receive all new interior finishes and ADA improvements, and the plumbing, HVAC and electric will be upgraded.

SERVICES PROVIDED

ARCHITECTURE
CIVIL
ELECTRICAL
MECHANICAL
PLUMBING
STRUCTURAL
CONSTRUCTION ADMINISTRATION
PROJECT MANAGEMENT

CLIENT CONTACT

JONATHAN NEAL
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TRAINING SITE BRANCH
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E) JONATHAN.I.NEAL.NFG@MAIL.MIL



PROJECT SPECS:

PROJECT COST
EST \$515,000

SQUARE FOOTAGE
SF

DESIGN COMPLETION
JANUARY 2021

CONSTRUCTION COMPLETION
IN PROGRESS

SERVICES PROVIDED

STRUCTURAL
ARCHITECTURE
ELECTRICAL
MECHANICAL
PLUMBING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

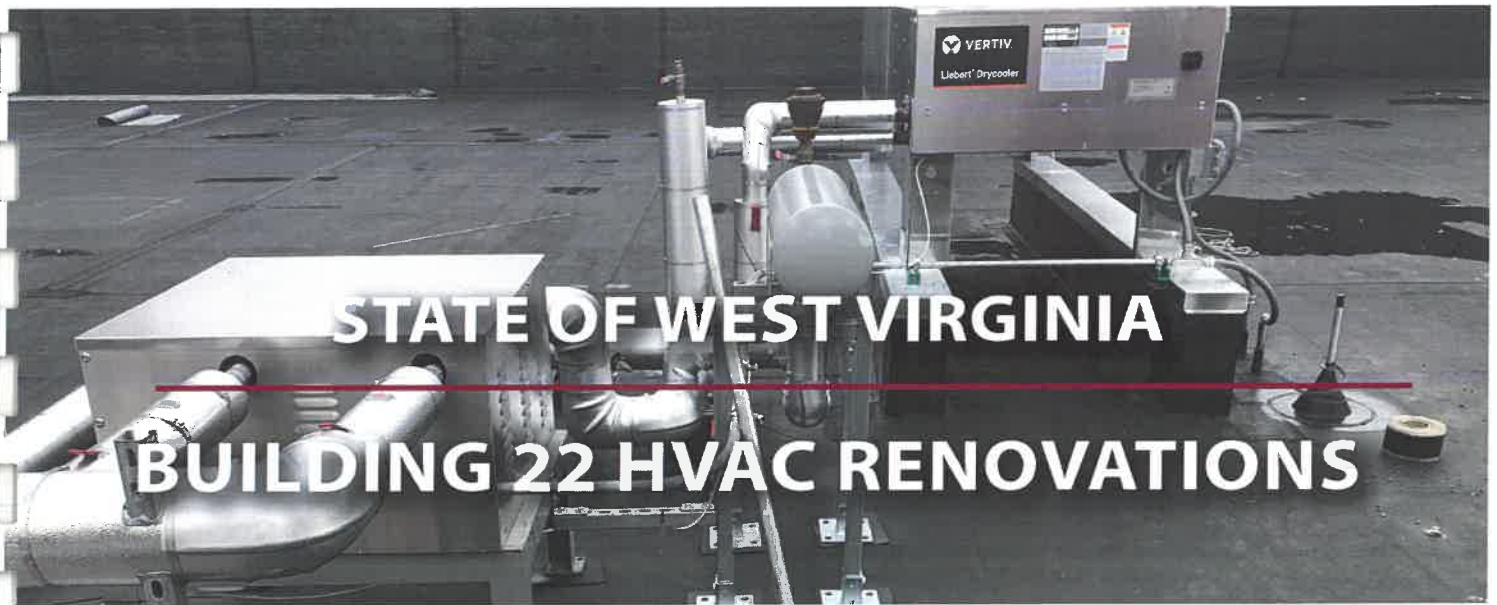
CLIENT CONTACT

GREG INGRAM
MAYOR
P) (304) 422-5100

The City of Montgomery was gifted the old City National Bank, a two story brick building. It was the City's desire to renovate the building into the new City Hall.

The first floor will be used for City offices and spaces to conduct City business. Design changes included: new Council Chambers in the existing open lobby, removal of an office wall to create a conference room, reworking of the two bathrooms that are next to each other to create accessible bathrooms, create space for booking, replace all light fixtures, and retain existing wall finishes as practical. Owner reused the marble from the old teller line. Front doors were made accessible.

The second floor will be used by the police department. Changes on second floor included replacement of all lights, new paint and change floor finishes.



STATE OF WEST VIRGINIA

BUILDING 22 HVAC RENOVATIONS

PROJECT SPECS:

PROJECT COST
\$2,308,775

DESIGN COMPLETION
MAY 2020

CONSTRUCTION COMPLETION
EST

General Services Division hire Pickering Associates to renovate Building 22. The building is four floors with a mezzanine and a full basement. Each floor is approximately 19,000 square feet with a total of approximately 140,000 square feet. The project was publicly bid and awarded in mid-January 2020. There will be a small area of the second floor that will remain operational during construction. Design work included architectural, structural, plumbing, fire protection, mechanical and electrical as described below.

SERVICES PROVIDED

- ARCHITECTURE
- STRUCTURAL
- PLUMBING
- ELECTRICAL
- MECHANICAL
- CONSTRUCTION MANAGEMENT
- PROJECT MANAGEMENT

CLIENT CONTACT

SCOT R. CASDORPH
P) (304) 957-7145
E) SCOT.R.CASDORPH@WV.GOV





MID-OHIO VALLEY TECHNICAL INSTITUTE

DIESEL TECHNOLOGY ADDITION & RENOVATION

PROJECT SPECS:

PROJECT COST

\$142,000

SQUARE FOOTAGE

3,000

DESIGN COMPLETION

SEPTEMBER 2015

CONSTRUCTION COMPLETION

FEBRUARY 2016

SERVICES PROVIDED

ARCHITECTURE

CIVIL

ELECTRICAL

MECHANICAL

STRUCTURAL

PROJECT MANAGEMENT

CONSTRUCTION MANAGEMENT

CLIENT CONTACT

RYAN HAUGHT

DIRECTOR

P) 304-684-2464

E) RKHAUGHT@ACCESS.K12.WV.US

MOVTI was awarded a 3% grant from the WV School Building Authority to construct an addition to their automotive education facility. The 3,000 SF addition is home to the relocated machine shop, providing a better organized space and to make way for a new Diesel Technology Program. Since the project is funded with WV School Building Authority Funds, careful planning was needed to stay within the funding budget.

The addition includes spaces for the Machine Shop, one classroom, storage, and a mezzanine with a stair for additional storage. The new addition matches the adjacent existing building construction of concrete block walls, metal bar joists, acoustical metal decking, rigid roof insulation, and EPDM roofing. All visible materials match the existing as closely as possible. One new 10'x10' overhead coiling door and one man-door were added to the west end of the building, one man-door was added to the front/north wall into the classroom area, and set of double (6'-0" wide) man-doors were added to the back/south wall of the new addition. Two new openings were added to the existing wall between the existing building and new addition. One opening is approximately 10'-0" wide (with no doors), and the second opening is a man-door from the existing bay into the new classroom area. Pickering Associates performed a code review during the schematic design process that verified the proposed layout of the spaces.



WEST VIRGINIA UNIVERSITY AT PARKERSBURG ONE-STOP ENROLLMENT CENTER

PROJECT SPECS:

PROJECT COST
\$430,500

SQUARE FOOTAGE
3,880

DESIGN COMPLETION
SEPTEMBER 2015

CONSTRUCTION COMPLETION
MARCH 2016

West Virginia University-Parkersburg (WVU-P) wanted to renovate existing interior office space in their Main Building to house a One-Stop Welcome Center for Student Services. Pickering Associates designed a space to better serve students at the campus by combining and streamlining the financial aid, registration and enrollment process.

Pickering Associates worked with the faculty and staff of WVU-P to accommodate all student services and ensure that students were able to easily move from one department to the next. Previously, students were standing in the hallways and outside offices throughout the school taking care of scheduling, financial aid and advising. The new center uses a triage space to determine what services a student needs, and then to direct the students to advisors for enrollment, financial aid, registration, admissions and academics. Included is a comfortable waiting area, and a new testing facility.

This project was completed both ahead of schedule and under budget.

SERVICES PROVIDED

- ARCHITECTURE
- ELECTRICAL
- MECHANICAL
- STRUCTURAL
- PROJECT MANAGEMENT
- CONSTRUCTION MANAGEMENT

CLIENT CONTACT

DAVID WHITE
DIRECTOR OF FACILITIES
304-424-8225
DAVE.WHITE@MAIL.WVU.EDU





UNIVERSITY OF CHARLESTON INNOVATION CENTER

PROJECT SPECS:

PROJECT COST
\$16,000,000

SQUARE FOOTAGE
70,000

DESIGN COMPLETION
MAY 2015

CONSTRUCTION COMPLETION
JANUARY 2017

SERVICES PROVIDED

ARCHITECTURE
PROJECT MANAGEMENT
CONSTRUCTION MANAGEMENT

CLIENT CONTACT

CLETA M. HARLESS
EXECUTIVE VICE PRESIDENT & CFO
P) 304-357-4800
E) CLETAHARLESS@UCWV.EDU

The Russell & Martha Wehrle Innovation Center and The H. Bernard Wehrle, Sr. Athletic Arena was designed as a renovation of the existing gymnasium with the addition of an innovation center. The new facility houses over 70,000 square foot on the owner's campus and marries the old facility with the new addition, while remaining true to its heritage and blending within the fabric of the campus. The original gym, completed in 1947, posed many challenges to the design and construction teams in order to bring the 70 year old building up-to-date while incorporating it into a modern building to be used for many years to come.

The program for this dramatic addition to the current gymnasium includes a large, two story atrium, a hall of fame, concessions, an innovation hub featuring exhibit space, meeting rooms, classrooms, and team work space, athletic training facilities and locker rooms, conference rooms, a Presidential Suite, video rooms, and offices.

The Innovation Center has become a prestigious gathering place for both students and the community. The University of Charleston has always been open to the community and this center epitomizes their commitment to the community. In keeping with the focus of the building and the owner's mission, every part of the building is equipped with cutting edge technology to enhance both the student's innovation and imagination while providing visitors with a stunning experience. In addition, the project truly captures the owner's focus to be a leader in innovation while remaining a great steward of the resources granted to them





GLENVILLE STATE COLLEGE

GOODWIN HALL

PROJECT SPECS:

PROJECT COST

\$23 M

SQUARE FOOTAGE

120,566

DESIGN COMPLETION

SEPTEMBER 2009

CONSTRUCTION COMPLETION

JANUARY 2011

A 6 story, 484 bed residence hall with a mix of one and two bed units on the campus of Glenville State College. A very steep site, the building exits at grade on five separate levels. The facility also contains the maintenance department on two levels, guest services, a small chapel and a student meeting room. The facility houses college maintenance offices and 484 beds in its dormitory portion. It was built on the site of an existing on-grade parking lot and several other existing buildings. The design not only provided for student dormitories, but incorporated spaces for the Glenville State College Physical Plan and Wesley Foundation.

Architectural design, HVAC design, electrical distribution engineering including a transformer and secondary underground feeder conductors, standby power systems, electrical distribution to floors, receptacles and lights, outdoor lighting and other electrical needs, interior plumbing design and all associated drawings were included in the scope.

Project Management was also a part of the scope and this included imperative design build team meetings and phone communications to complete a quality project within the allotted schedule.

This project was prior to Pickering Associates and Associated Architects merging in January 2016. Associated Architects was the Architect of Record and Pickering Associates was the Engineer of Record.



SERVICES PROVIDED

ARCHITECTURE

ELECTRICAL

MECHANICAL

PIPING

CONSTRUCTION MANAGEMENT

PROJECT MANAGEMENT

CLIENT CONTACT

THOMAS RATILFF

DIRECTOR OF PHYSICAL PLANT

P) 304.462.6241

E) THOMAS.RATLIFF@GLENVILLE.EDU



PROJECT SPECS:

PROJECT COST

\$250,000

SQUARE FOOTAGE

2,300 SF

DESIGN COMPLETION

DECEMBER 2009

CONSTRUCTION COMPLETION

SEPTEMBER 2011

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
STRUCTURAL
CONSTRUCTION MANAGEMENT

CLIENT CONTACT

DAVID WHITE
TITLE
P) (304) 424-8225
E) DAVE.WHITE@MAIL.WVU.EDU

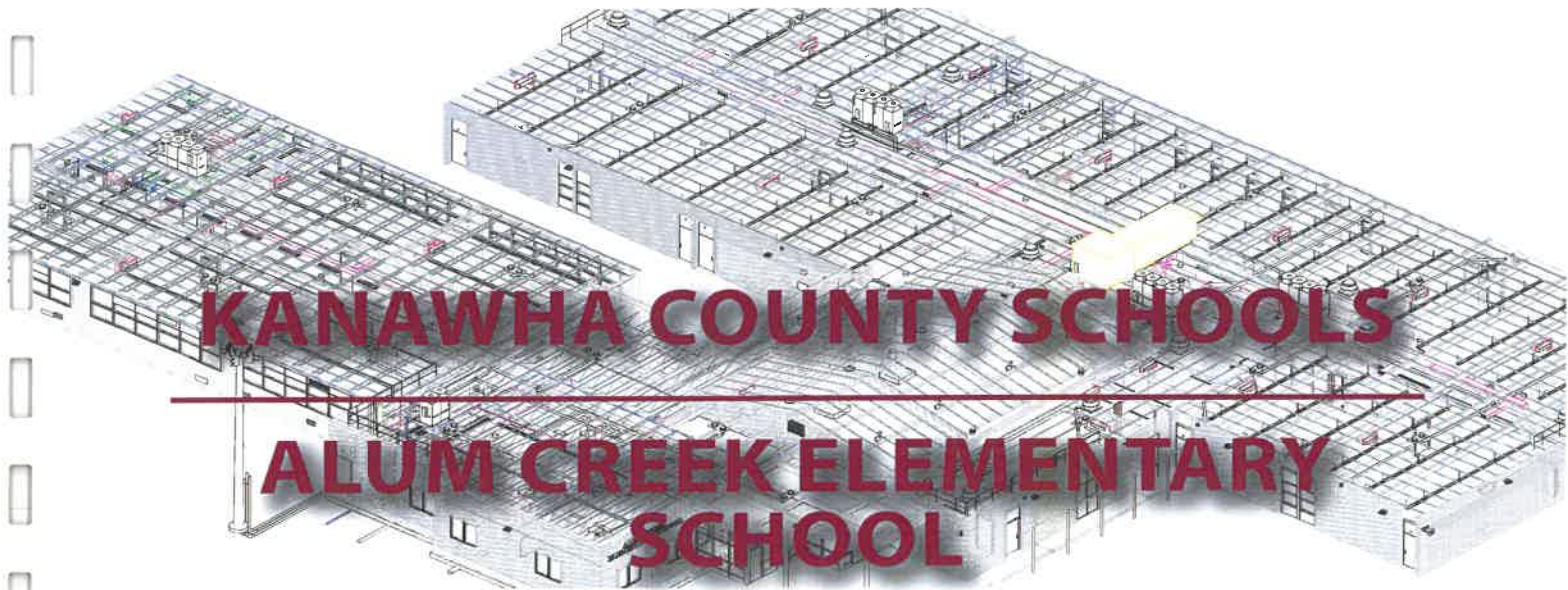
PHASE 1

West Virginia University at Parkersburg approached Pickering Associates to do preliminary design to renovate their theater. Conceptual design including the replacement of the interior finishes, stage floor, new acoustical studies for wall and ceiling arrays, other acoustical treatments and selective demolition of existing theater components were all part of the analysis. This project demonstrates Pickering Associates' experience in Interior Design.

This project's success is based largely in the visual communications utilized to convey concepts to potential lenders and Board Officials. Interior renderings and 3D models took a flat product and turned it into a real space to both see the value of new renovations and work out issues that may have otherwise gone unnoticed until construction phases.

PHASE 2

Once funding was acquired, construction documents were prepared for the renovation of the stage, audience seating area and new ticket booth by the theater entry. The ceiling layout was redesigned for acoustics and better lighting. Angled acoustic wall partitions were designed to help acoustics and to cover up existing lighting mounts on the walls. The existing stage was removed and a new stage floor was built for presentations. Cable chases and batten systems were put in for the future upgrade of the main stage, front-of-house and back-of-house rigging systems. A new pipe grid was designed for expanded stage lighting capabilities.



PROJECT SPECS:

PROJECT COST
\$3,199,700

SQUARE FOOTAGE	EXISTING	22,926
	NEW	<u>3,849</u>
	TOTAL	26,775

DESIGN COMPLETION
JULY 2020

CONSTRUCTION COMPLETION
EST SEPTEMBER 2021

SERVICES PROVIDED

ARCHITECTURAL
STRUCTURAL
CIVIL
ELECTRICAL
MECHANICAL
PLUMBING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT
BIM

CLIENT CONTACT

CHUCK SMITH
DIRECTOR OF FACILITIES
P) (304) 348-6148

Pickering Associates worked with Kanawha County Schools and the WV School Building Authority (SBA) to design an addition and make renovations to Alum Creek Elementary School.

The new addition includes a main entry, secure entry, principal's office, conference room, two offices, work room, and a clinic room with bathroom. The addition will also connects both existing school buildings so that all school circulation will be inside instead to being outside under a canopy.

Renovations to the existing school will include renovation of old administrative area into an additional classroom, installation of a new fire alarm system, installation of a sprinkler system, changing all lights to LED light fixtures, replacement of existing acoustical ceiling tile and grid, new VRF HVAC units, and reroofing the existing building. After all work is complete, Kanawha County Schools will remove the portable classroom located on the school property





PROJECT SPECS:

PROJECT COST

\$ 270,000

SQUARE FOOTAGE

27,400 SF

DESIGN COMPLETION

APRIL 2015

CONSTRUCTION COMPLETION

JULY 2015

SERVICES PROVIDED

ARCHITECTURE

CONSTRUCTION MANAGEMENT

PROJECT MANAGEMENT

Due to repair and maintenance concerns, and the general age of the roof, Wood County Schools requested that Pickering Associates prepare bidding and construction documents for a complete roof replacement on the Field House at Parkersburg High School.

There are two different roof elevations and systems that needed removing. The lower roof is a ballasted EPDM system and the upper roof is an adhered EPDM system, both were installed in the early 1990's. Wood County Schools desired to replace the existing metal coping as part of this project. The complete roof replacements included a fully adhered 90 mil EPDM roof system over 4.5" of insulation.

Pickering prepared bidding and construction documents for the roof replacement project including demolition plans, new roof plans, details as necessary and specifications.

A unique challenge to this project was that the PHS field house is a gym. Our professionals needed to take extra precautions while working over the wood gym floor and to keep the building dry.

CLIENT CONTACT

MICHAEL FLING

MAINTENANCE DIRECTOR

P) (304) 420-9663

A photograph of a large, single-story brick building with a flat roof, identified as Blennerhassett Middle School. The building is surrounded by green grass and trees under a clear blue sky. The text 'WOOD COUNTY SCHOOLS' is overlaid in large white letters across the top of the image.

WOOD COUNTY SCHOOLS

BLANNERHASSETT MIDDLE SCHOOL STRUCTURAL RENOVATION

PROJECT SPECS:

PROJECT COST
\$85,000

LINEAR FOOTAGE
50 LINEAR FEET OF WALL

DESIGN COMPLETION
APRIL 2010

CONSTRUCTION COMPLETION
AUGUSTS 2010

The project began when Wood County Schools contacted Pickering Associates for structural assistance concerning the movement and associated cracking of the single-story masonry walls at one corner of the building. As the condition worsened quickly, it required immediate attention and prompt repair. This project demonstrates our experience in Structural Investigation, Analysis, and Repair services provided without tenant interruption (e.g. temporary shoring, selective demolition).

The affected portion of the building was constructed in 1973 and involved a membrane roof over bar joists supported by load bearing block walls covered with brick. The deterioration was intensified since the area of the building was a restroom located along a building corner and originally constructed over a ravine.

Pickering Associates conducted a review of the existing drawings, site history and other relevant documentation, as well as performing an on-site inspection. We then produced construction drawings, specifications, bid documents and construction cost estimates to Wood County Schools. Pickering Associates also assisted with contractor bid evaluation, the development of the Owner-Contractor agreement, attended key construction meetings, and performed construction inspections.

SERVICES PROVIDED

STRUCTURAL

CLIENT CONTACT

MIKE FLING
ASSISTANT FACILITIES MANAGER
P) (304) 420- 9663
E) MFLING@K12.WV.US



WOOD COUNTY SCHOOLS

PARKERSBURG SOUTH HIGH SCHOOL AUDITORIUM HVAC

PROJECT SPECS:

PROJECT COST
\$251,845.00

SQUARE FOOTAGE
9,076

DESIGN COMPLETION
JUNE 2013

CONSTRUCTION COMPLETION
AUGUST 2013

SERVICES PROVIDED

ELECTRICAL
MECHANICAL
STRUCTURAL
PIPING
CONSTRUCTION MANAGEMENT

CLIENT CONTACT

GARRY COOPER
PHYSICAL PLANT DIRECTOR
P) (304) 420-9568
E) GCOOPER@ACCESS.K12.WV.US


Parkersburg South High School contacted Pickering Associates to design an HVAC system for the auditorium to replace the old system, which was too loud to operate while the space was occupied. School officials asked that the new system be a rooftop package utilizing natural gas for heating and electric for cooling.

The structural engineering scope of the project included a review of the auditoriums drawings and proposed rooftop unit cut sheet and visual field inspection. Our engineers determined the optimal roof location for HVAC placement and evaluated the existing roof trusses for loading, designed the post and beam support frame over the low-slope roof. The Team preformed design support for sound proofing material to the underside of the roof purlins. Our engineers also prepared a construction cost estimate.

Pickering Associates' engineers determined the routing from the natural gas tie in location to the new rooftop unit and provided the construction plans for the natural gas piping.

The Pickering Associates mechanical engineering team reviewed the auditorium drawings and assisted in the placement of the new rooftop unit and developed the heating and cooling load calculations. Our engineers selected and specified the basis of design for the new unit and provided the demolition plans of the existing equipment and ductwork, as well as provided the construction plans for the new unit and ductwork.

Pickering Associates' electrical engineering team documented the site conditions and reviewed drawings to determine the auditorium's electrical load. Our team provided the demolition plans to remove the existing electrical equipment associated with the HVAC equipment. Our engineers provided the design and engineering to adjust the electrical distribution to meet the requirements of the installation of the new rooftop unit.



WOOD COUNTY SCHOOLS

BOARD OF EDUCATION STRUCTURAL REMEDIATION

PROJECT SPECS:

PROJECT COST
\$ 85,525

SQUARE FOOTAGE
12,000 SF

DESIGN COMPLETION
DECEMBER 2010

CONSTRUCTION COMPLETION
AUGUST 2011

Pickering Associates performed a structural assessment for the Wood County Board of Education concerning wall and floor cracking they were experiencing in their office building. Over time, minor cracking in the Board of Education office's concrete slab had reportedly grown with no apparent natural resolution. The damage was limited to one small area, but the Board hoped to take care of the issue before it had a chance to become more widespread.

Pickering Associates provided a report of the damage and the current structural adequacy of the floor, investigated the potential causes and offered recommendations for repair including the associated conceptual cost estimate.

Resolution and repairs included the site drainage modifications, foundation repair system application and miscellaneous masonry/concrete reconstruction. Temporary shoring was installed and during all construction, the building was strictly monitored for shifting or movement. The windows on the affected side of the building were removed and stored for re-installation. The contractor excavated and installed 15 helical soil anchors and replaced lintel bearing masonry. The windows were reinstalled and sealed and interior finishes were replaced. Additional tuck-pointing was performed on the exterior brick, the drainage was replaced around the footings and the site was regarded, landscaped and seeded.

The expertise and professionalism of the contractor along with quick response times by the engineer allowed this project to proceed quickly with minimum disruption to the daily activities of the occupants.

SERVICES PROVIDED

STRUCTURAL

CLIENT CONTACT

MICHAEL FLING
ASSISTANT SUPERINTENDENT
P) (304) 420- 9663
E) MFLING@K12.WV.US



PROJECT SPECS:

PROJECT COST
\$200,000

SQUARE FOOTAGE
2,450 SF

DESIGN COMPLETION
APRIL 2014

CONSTRUCTION COMPLETION
AUGUST 2014

SERVICES PROVIDED

ARCHITECTURE
STRUCTURAL
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

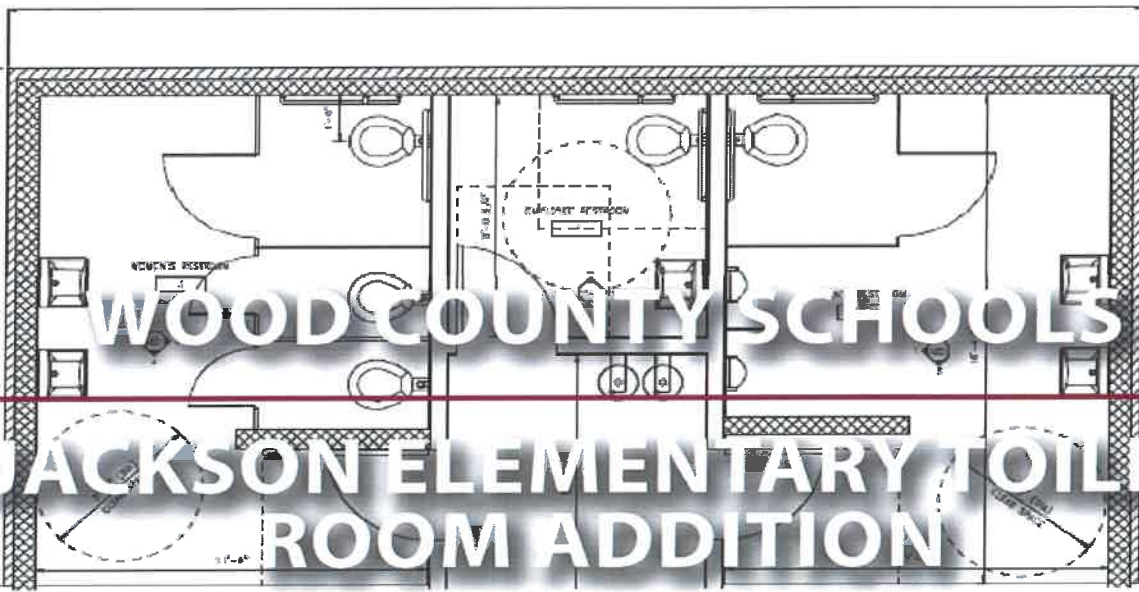
MICHAEL FLING
MAINTENANCE DIRECTOR
P) (304) 420-9663

Due to repair and maintenance concerns and the general age of the plaza deck on the Rod Oldham Athletic Center at Parkersburg South High School, Wood County Schools contracted with Pickering Associates to prepare bidding and construction documents for the replacement of the plaza deck waterproofing system and brick wall and railing bordering two sides of the plaza deck at Parkersburg South High School in Wood County.

The existing plaza deck was constructed in 1972 covering approximately 2,450 SF. Pickering Associates prepared bidding and construction documents for the plaza deck replacement, which included demolition plans, new plaza deck plans, waterproofing details as necessary and specifications.

The project was completed on time, and came in under budget.





PROJECT SPECS:

PROJECT COST
\$320,556

SQUARE FOOTAGE
700 SF

DESIGN COMPLETION
DECEMBER 2018

CONSTRUCTION COMPLETION
AUGUST 2019

Wood County Schools hired Pickering Associates to design, bid, and perform construction administration for a new toilet room addition on the east side of the existing Jackson Middle School in Vienna, WV. The addition includes new ADA compliant restrooms for both male and female students, as well as a single occupant restroom for staff use. The new addition is approximately 700 SF and will be constructed of block and brick walls for durability and to match the existing adjacent building structure. The architectural and engineering project scope includes topographic survey, site layout for new building addition and utilities, structural analysis, and complete architectural, mechanical, electrical, and plumbing design for the addition.

SERVICES PROVIDED

ARCHITECTURE
CIVIL
ELECTRICAL
MECHANICAL
STRUCTURAL
SURVEYING
PIPING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

MARTIN BEST
DIRECTOR OF PHYSICAL PLANT
P) (304) 580- 9290
E) MARTIN.BEST@K12.WV.US





WOOD COUNTY SCHOOLS

SCHOOL BOND ROOF REPLACEMENTS

PROJECT SPECS:

PROJECT COST
APPROX \$16MM

SQUARE FOOTAGE
TOTAL ESTIMATED 1,000,500

DESIGN COMPLETION
2017 - 2019

CONSTRUCTION COMPLETION
2017 - 2019

SERVICES PROVIDED

ARCHITECTURE
PROJECT MANAGEMENT
CONSTRUCTION ADMINISTRATION

CLIENT CONTACT

MARTIN BEST
MAINTENANCE DIRECTOR
P) (304) 420-9568
E) MBEST@K12.WV.US

Pickering Associates worked with Wood County Schools to develop a comprehensive plan to re-roof twenty-three of the County School buildings. After prioritizing the schools, Pickering developed drawing and specification bid packages for each facility.

The work was complete over the summers of 2017, 2018, and 2019 with multiply bid packages awarded each summer. In addition to the re-roof design work, Pickering also coordinated with a asbestos testing agency to core each roof in various locations to check for asbestos. The roof cores also served to verify existing roof insulation thickness and type of roof deck at each location.

Each year the projects were publicly bid early in the season so Wood County would receive the best pricing possible. Then all work was completed during the summer break.

The new roof systems were comprised of 90 mil EPDM with protection board under it. A 20 year warranty was specified. All roofing details were 30 year warranty details, thus the roof system should last well beyond the 20 year warranty. Pickering Associates conducted weekly site visits on each project to help ensure installation went as designed. Weekly project updates were emailed to the Owner so they would fully understand the progress. Bi-weekly job meetings were also held during construction.

A photograph of a large, modern school building with a dark facade and many windows. The words "WILLIAM HIGH SCHOOL" are visible on the upper part of the building. The image is used as a background for the top section of the page.

WOOD COUNTY SCHOOLS

ACCESS CONTROL AND LIFE SAFETY

PROJECT SPECS:

PROJECT BUDGET
EST \$741,500

DESIGN COMPLETION
APRIL 2019

CONSTRUCTION COMPLETION
IN PROGRESS BEING PHASED

SERVICES PROVIDED

ELECTRICAL
CONSTRUCTION MANAGEMENT

CLIENT CONTACT

MICHAEL FLING
MAINTENANCE DIRECTOR
P) (304) 420-9663

Wood County Schools conducted a needs assessment of all of the county's schools with regard to overall access security of the school system in relation to the requirements needed to fulfill the audit prerequisite of the School Building Authority Access Safety Plan. An inventory was created in response to the evaluation and was prioritized into six categories, from the most to least urgent as follows:

1. One remote buzz-in and camera surveillance entrance per school.

2. One electronic proximity reader per school.
3. New entrances and/or retrofitted electrically wired doors to be installed in conjunction with the proximity readers.
4. Lock cylinder replacements and signage.
5. Exterior single door replacement.
6. Contracted exterior door replacement.

This extensive project occurred at 28 buildings throughout Wood County. Partial floor plans were created of all buildings showing existing conditions, exterior door locations, main office location, corridors/areas as necessary to show CPU location and wiring routes. Detailed design was done for buzz-in and camera surveillance system, proximity sensors and entrance modifications. Each school was equipped with 2 master stations and entrances received Audio/Video/Card Readers to control access. Thirty-nine entrances were completely replaced and twenty additional entrances were retrofitted. Over 1700 key fobs were programmed for teachers and staff. Each building was given the ability to instantly lock down in case of emergency.

The close contact maintained with the owner and contractor throughout the course of the project contributed to a very successful final product. Pickering Associates has also made sure to keep all the phases consistent and working together to continue the success of the undertaking.

Each fiscal year, the SBA has dedicated additional funds to this program. Pickering Associates has continued to evaluate, prioritize and implement additional access safety installations and door replacements.



PROJECT SPECS:

PROJECT COST
\$1,389,000 (TO DATE)

SQUARE FOOTAGE

DESIGN COMPLETION
JULY 2019

CONSTRUCTION COMPLETION
AUGUST 2020

SERVICES PROVIDED

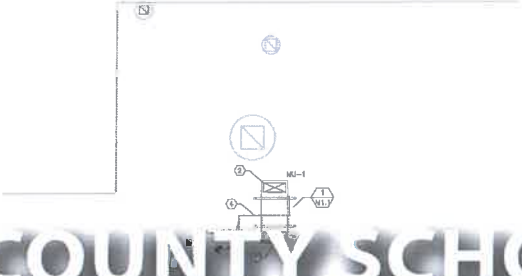
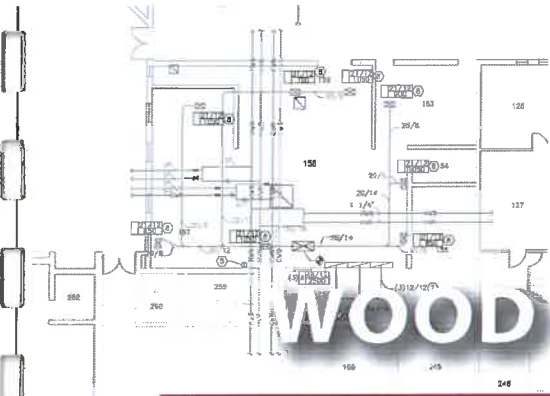
ARCHITECTURE
STRUCTURAL
CIVIL
PLUMBING
MECHANICAL
ELECTRICAL
CONSTRUCTION ADMINISTRATION
PROJECT MANAGEMENT

CLIENT CONTACT

MARTIN BEST
MAINTENANCE DIRECTOR
P) (304) 420-9568
E) MBEST@K12.WV.US

Wood County Schools has been adding additional security measures to their existing buildings over the past several years to make them safer for both students and staff. Recently, they selected several schools whose main entrances were at the top of the list for needing additional security measures put in place. The schools that Wood County were identified as having the greatest need for this added security measure were: Parkersburg High School, Parkersburg South High School, Madison Elementary, Emerson Elementary, Jefferson Elementary, Criss Elementary, Greenmont Elementary, Kanawha Elementary, and Mineral Wells Elementary. The main entrances for each of these schools were re-designed to include layouts that were more aligned with the SBA safe school guidelines.

The projects included redesign of the existing main entrance areas and offices, and in some cases a small addition to gain enough space to provide the desired layout. A secure entrance area, as well as transaction windows, cameras, and additional access control devices were added at each school. These modifications provided for greater visibility and monitoring of visitors during the school day. Of the two high schools and five elementary schools whose entrances were redesigned, Wood County Schools has been able to fund and construct six of the secure entrances to date - Parkersburg High School, Parkersburg South High School, Madison Elementary, Emerson Elementary, Jefferson Elementary, and Kanawha Elementary. The other three schools will be constructed when additional funding is obtained.



UNIT NUMBER	MU-1
SERVICE	KITCHEN
CONFIGURATION	SLOW-START
TOTAL TONS	---
TYPE	7500
EXTERNAL S.P./TOTAL	0.83/1.44
MOTOR HP	7.5
RELEVANT CONTROLS	---
HEATING WTR	840
ENTERING AIR TEMP.	0
COOLING WTR	800
ELECTRIC R/P/STAGES(WALL)	---
CIRCUIT SIZE (AMP)	10.5
MULTI-PHASE	480/3
OUTSIDE AIR	100% V
OUTSIDE AIR DIMENS/STR	---
INTERNAL BAROMETRIC RELAY	---
P.I.A. OR V.I.A. SWITCH	---
FAN MOTOR HP	1542 LBS.
WEIGHT	11435 LBS.
HEIGHT	---

WOOD COUNTY SCHOOLS

BLANNERHASSETT KITCHEN HVAC

- GENERAL NOTES:**
1. BRANCH SUPPLY DUCTWORK TO DIFFUSERS, GRILLES, AND REGISTERS SHALL BE THE SAME SIZE AS THE INLET CONNECTION UNLESS OTHERWISE NOTED.
 2. DUCTWORK/PIPING RUNS SHALL BE COORDINATED WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, CEILING, MECHANICAL, PLUMBING, LIGHTING, SPRINKLER, CHIMNEYS, ETC.
 3. COORDINATE LOCATION OF THERMOSTATS WITH OUTDOOR PRESURES, I.E. CASEWORK, HANDED BOARDS, PROJECTORS, ETC.
 4. ALL OUTDOOR AIR SERVICES OR EQUIPMENT OPENINGS ONSTE PRIORITY TO INSTALLATION SHALL BE COVERED OR CAPPED TO PROTECT AGAINST FOREIGN MATTER.
 5. MAINTAIN ANY EXISTING ROOF INTEGRITY.

AN HANDLING SYSTEM (HEAT/COOL) - MOST SERVICES - THE AIR HANDLING UNIT IS A 100% OUTDOOR AIR UNIT. UNIT SHALL BE ABLE TO BE SCHEDULED FOR OCCUPANCY/DEWASHING / 1-DAY AND HOLIDAY OPERATION. UNIT SHALL BE ABLE TO OPERATE BETWEEN 20 DEGREES F AND 100 DEGREES F. DURING WINTER, THE OUTDOOR AIR DAMPERS SHALL REMAIN CLOSED, THE RETURN AIR DAMPERS SHALL OPEN, AND THE RETURN AIR DAMPER SHALL REMAIN OPEN. THE COMPRESSOR SHALL CYCLE THE UNIT TO MAINTAIN A ROOM SPACE TEMPERATURE OF 65 DEGREES F. THE UNIT IS DESIGNED AS A 100% OUTDOOR AIR UNIT. THE OUTDOOR AIR SERVICE ON A EXHAUST TO SERVE THE UNIT SHALL OPEN FIRST. IN WINTER, THE OUTDOOR AIR DAMPERS SHALL REMAIN CLOSED, THE RETURN AIR DAMPERS SHALL OPEN, DAMPERS SHALL OPEN AND THE EXHAUST FANS SHALL START.

WORKING WASH-UP AND WIPAL STAFF - AIR HANDLING SYSTEM SHALL EXHAUST A WORKING WASH-UP WASH-UP EXHAUST OF THE OCCUPANCY TIME. AN AIR SERVICE, DASH SERVICES, THE OUTDOOR AIR DAMPERS SHALL REMAIN COMPLETELY CLOSED AND THE RETURN DAMPERS SHALL REMAIN FULLY OPEN AND EXHAUST FANS SHALL REMAIN OFF. IN WINTER, THE ROOM SHALL OPEN FIRST. THE RETURN TEMPERATURE SHALL ABOVE 60 DEGREES F. AT WHICH TIME THE OUTDOOR AIR DAMPERS SHALL OPEN AND THE EXHAUST FANS SHALL START.

ROOM TEMPERATURE, DECREASE THE ROOM - THE AIR HANDLING UNIT CONTROLS SHALL PROVIDE OUTDOOR AIR TEMPERATURE CONTROL, BASED ON THE FOLLOWING ROOM TEMPERATURE SETPOINTS SCHEDULED: 68 DEGREES F, ROOM TEMPERATURE, 62 DEGREES F, DISCHARGE AIR, 70 DEGREES F, ROOM TEMPERATURE, 52 DEGREES F, DISCHARGE AIR. ALL CONTROLS SETPOINTS TO BE FULLY

PROJECT SPECS:

PROJECT COST
\$55,859

SQUARE FOOTAGE
N/A

DESIGN COMPLETION
AUGUST 2014

CONSTRUCTION COMPLETION
NOVEMBER 2014

SERVICES PROVIDED

ELECTRICAL
MECHANICAL
CONSTRUCTION ADMINISTRATION
PROJECT MANAGEMENT

CLIENT CONTACT

MARTIN BEST
MAINTENANCE DIRECTOR
P) (304) 420-9568
E) MBEST@K12.WV.US

The Blennerhassett Middle School had a make-up air unit on the roof serving the kitchen. The unit was linked to operate only when the exhaust fan was in operation for the kitchen. There were complaints about the low temperatures in the morning hours in the kitchen during the winter. Wood County Schools requested Pickering Associates to design an HVAC system to maintain a comfortable temperature during the winter.

The Pickering Associates mechanical engineering team reviewed the kitchen drawings and assisted in the placement of the new HVAC equipment and developed the heating and cooling load calculations. Our engineers selected and specified the basis of design for the new equipment and provided the demolition plans of the existing equipment and ductwork, as well as provided the construction plans for the new unit and ductwork.

Pickering Associates' electrical engineering team documented the site conditions and reviewed drawings to determine the kitchen's electrical load. Our team provided the demolition plans to remove the existing electrical equipment associated with the HVAC equipment. Our engineers provided the design and engineering to adjust the electrical distribution to meet the requirements of the installation of the new HVAC equipment.

Pickering Associates, Inc.
Architects
1121 Boone Ave. N.
Raleigh, NC 27604

WOOD COUNTY SCHOOLS
444 BOWLING GREEN, PARKERSBURG, WV 26101
BLANNERHASSETT MS HVAC REPLACEMENT
MECHANICAL PLAN

Drawing Description
Description
Rev. Description
Date



WOOD COUNTY SCHOOLS

MARTIN ELEMENTARY HVAC RENOVATIONS

PROJECT SPECS:

PROJECT COST
\$120,511

SQUARE FOOTAGE
N/A

DESIGN COMPLETION
MARCH 2018

CONSTRUCTION COMPLETION
AUGUST 2018

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
STRUCTURAL
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT


MARTIN BEST
MAINTENANCE DIRECTOR
P) (304) 420-9568
E) MBEST@K12.WV.US

As any school system ages there will arise a need for various infrastructure replacements. For several years Pickering Associates has provided local schools with these improvements.

Pickering Associates provided architectural, mechanical, structural and electrical engineering design as well as construction administration and project management services for the replacement of the Martin Elementary School HVAC equipment and unit ventilators in six classrooms.

Unit ventilators were removed and new roof top units were installed. Work also included new ductwork and diffusers in each of the six classrooms. New floor tile was installed where the unit ventilators were removed.

All work was completed during summer break.



WOOD COUNTY SCHOOLS

EDISON MIDDLE SCHOOL

PROJECT SPECS:

PROJECT COST
\$2.1M

SQUARE FOOTAGE
5,700

DESIGN COMPLETION
APRIL 2014

CONSTRUCTION COMPLETION
DECEMBER 2014

Pickering Associates, in conjunction with the West Virginia SBA, designed and completed renovations at Edison Middle School in Parkersburg, WV. The project was funded by a Needs Grant that added much-needed security and fire code compliance to the existing building.

A new 5,700 SF building addition was also included in the project. The new addition was designed to connect the two existing buildings on campus, and contained five additional classrooms that assisted in alleviating the school's current classroom deficiencies. The addition also provided means for a safer, enclosed walkway between buildings for both students and staff.

Minor renovations and additions to the building entrance created a reception space large enough for visitors, and an area for the principal's office. This addition and renovation project allowed for reconfiguration of the main entrance, thus providing for a safer, controlled-access into the building, monitoring of activities, and privacy for staff and students. A new sprinkler system was also provided and installed in the existing building to comply with West Virginia State Fire Code as part of this project.

An important part of this project was to minimize the construction duration and take full advantage of the summer months, when students were not occupying the building. A phased-construction plan was utilized and extensive safety measures were put in place to ensure the safety of students and staff during demolition and construction activities.

SERVICES PROVIDED

ARCHITECTURE
BIM DESIGN
CIVIL
ELECTRICAL
MECHANICAL
STRUCTURAL
PIPING
PROJECT MANAGEMENT
CONSTRUCTION MANAGEMENT

CLIENT CONTACT

MICHAEL FLING
DIRECTOR OF FACILITIES
P) (304) 420-9663



MARIETTA COLLEGE

MILLS HALL RENOVATIONS

PROJECT SPECS:

PROJECT COST
\$500,000

SQUARE FOOTAGE
14,227SF

DESIGN COMPLETION
MARCH 2019

CONSTRUCTION COMPLETION
FALL 2019

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
STRUCTURAL
PIPING
PROJECT MANAGEMENT

CLIENT CONTACT

FRED SMITH
DIRECTOR OF PHYSICAL PLANT
P) (740) 376-4367
E) SMITHF@MARIETTA.EDU

Marietta College hired Pickering Associates to design renovation plans for Mills Hall on the campus to accommodate needs for the Communications and Psychology Departments. Major renovations will take place on the third floor of the building, with finish and system upgrades only on floors one and two. One wall will be added on the fifth floor to divide an existing classroom into two spaces, and existing windows will be replaced on the ground floor, basement and third floors.

Conceptual designs were completed for the third floor. The renovations will create areas for: a large classroom, a computer lab, two therapy rooms, six office spaces, a waiting area, new men/women's restrooms, and a new housekeeping closet.

There will be a new HVAC systems and LED lighting to floors one, two and three. The HVAC system on these floors is a variable refrigerant flow (VRF) system with either floor or wall mounted units and hyper-heat model heat pump. Electrical upgrades associated with this project are expected to be minimal for the new equipment installations. Upgrades will include feeder breakers for equipment from existing distribution panelboards.

Pickering Associates provided Marietta College with Architectural design, Plumbing engineering, Mechanical engineering, Electrical engineering and Structural Engineering. This project is currently in the construction phase and is set to be completed in the early Fall of 2019.



PROJECT SPECS:

PROJECT COST
\$ 400,000

SQUARE FOOTAGE
3,500

DESIGN COMPLETION
JUNE 2017

CONSTRUCTION COMPLETION
OCTOBER 2017

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
PIPING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

FRED SMITH
DIRECTOR OF PHYSICAL PLANT
740-376-4367
E)SMITHF@MARIETTA.EDU

Pickering Associates worked closely with Marietta College to provide renovations to an existing building on their campus for a new Music Therapy Program. The project was fast-tracked after receiving funding from a private donor who requested that the design and construction be complete within five months, so the program could be functioning for the next school year. The existing McKinney Mass Media Building at 508 Putnam Street was selected to house the program and design started immediately. The ground floor renovation area included a large cutting/group therapy room, a control room, and three isolation rooms, as well as a production studio and control room for the relocated college radio station. The first floor renovations included three therapy rooms, two observation rooms, and a storage closet for the Music Therapy program.

Due to the nature of the program, acoustical treatments was a key element in the design. Double stud walls with an air cavities were constructed, sound-proof doors and windows were used, and special attention was given to all ceilings, joints, penetrations and systems within the project areas. Soothing colors and materials were selected for the therapy areas and a state-of-the-art cutting/production studio (that could be used by both students of the Music Therapy program, and students in other majors with an interest in music) was designed.

Pickering Associates was able to efficiently and effectively work with the donor and Marietta College staff to provide permit and construction drawings in a short period of time.



PROJECT SPECS:

PROJECT COST
\$600,000

SQUARE FOOTAGE
21,543

DESIGN COMPLETION
APRIL 2009

CONSTRUCTION COMPLETION
JULY 2009

SERVICES PROVIDED

ARCHITECTURE
ELECTRICAL
MECHANICAL
PLUMBING
CONSTRUCTION MANAGEMENT
PROJECT MANAGEMENT

CLIENT CONTACT

FRED SMITH
DIRECTOR PHYSICAL PLANT
(740) 376-4367
SMITHF@MARIETTA.EDU

Pickering Associates and Silverheels Construction teamed up after Marietta College purchased a local building, formerly owned by the Moose Lodge, with the intention of renovating it for use by their Physician's Assistant Program.

The existing building consisted of three floors, the first has approximately 16,600 sq. ft. and the second and third floors have approximately 2,200 sq. ft. each. The first floor was designed with a clinical instruction area, classroom area, four break-out rooms, four private exam rooms, student lounge, restroom facilities and storage areas. The second floor has reception and staff areas, conference room and restroom facilities. The third floor has six private offices and one private toilet room. The clinical area was designed with room for 18 exam tables around the perimeter of the room so that standard wall mounted equipment could be utilized. The 40-desk classroom area has computers at each station that rise from the desks when needed. The private exam rooms are each equipped with video capability so students can review their exam skills. The breakout rooms are typically used for small group sessions, while the student lounge offers a more comfortable and relaxing area for the students. The entire building was brought up to ADA standards and even includes an ADA workstation.





SEAN G. SIMON, AIA, NCARB

BRANCH MANAGER
SENIOR CONSTRUCTION ADMINISTRATOR
PROJECT ARCHITECT
COST ESTIMATING
QUALITY REVIEW OF FINAL BID PACKAGES

BACKGROUND:

EDUCATION

CONSTRUCTION SPECIFICATIONS INSTITUTE
CONSTRUCTION DOCUMENT TECHNOLOGIST

UNIVERSITY OF TENNESSEE
PROFESSIONAL BACHELOR OF ARCHITECTURE

LICENSES

PROFESSIONAL ARCHITECT
WV

YEARS EXPERIENCE

29 YEARS

- Twenty- nine years of experience in architectural programming, design, construction document production, and construction contract administration.
- Previously the Director of Construction Services at Silling Architects.
- Construction Administrator WVANG Eleanor Readiness Center HVAC Renovations.
- Construction Administrator WVANG Camp Dawson Rappel Tower Renovations.
- Construction Administrator WVANG Camp Dawson Bldg 215 Doors and Windows Replacements & Medical Wing Renovations.
- Construction Administrator Camp Dawson Airfield Support Facility
- Construction Administrator Camp Dawson Cottages Renovations.
- Project Architect for New Clean Room - Thomas Hospital, South Charleston, WV
- Project Architect for New Temporary Sterilization Building - VA of Huntington, WV
- Project Architect for South Branch Cinema 6. This project included a 6 screen movie theater, which included 3 different theater sizes and a total of 800 seats.
- Project Architect for over 10 different banking facilities located throughout Virginia and West Virginia.
- Project Architect for a one story facility for the Beckley State Police/ Department of Motor Vehicle.
- Project Architect for a new Urgent Care facility in Moorefield, WV.
- Project Architect for the Monumental sign for Robert C. Byrd Courthouse in Charleston, WV
- Project Architect for a renovation project for the Social Security and Department of Labor Office in Parkers-

QUALITY IS NOT AN ACT,
IT IS A HABIT.

Aristotle



PAMELA WEAN, AIA

SENIOR PROJECT ARCHITECT
PROJECT MANAGER
BRANCH MANAGER

BACKGROUND:

EDUCATION

FAIRMONT STATE COLLEGE
B.S., ARCHITECTURAL TECHNOLOGY

FAIRMONT STATE COLLEGE
ASSOC. OF APPLIED SCIENCE - INTERIOR DESIGN

LICENSES

PROFESSIONAL ARCHITECT
W.VA. & OHIO

YEARS EXPERIENCE

35 YEARS

- Project Architect for projects as Camp Dawson, Kingwood, W.Va. Including Rappel Tower Support Facilities Renovations, Camp Dawson Building 215 Window and Door Replacement, Cottage Renovations, Building 215 Medical Wing Renovations and Airfield
- Project Architect for the design of renovations for the Lodge at North Bend State Park.
- Project Architect for renovations of the Historic Ritchie Courthouse in Harrisville, W.Va.
- Project Architect for the design and construction of the new Franklin Elementary School in Franklin, W.Va.
- Project Architect for the design and construction of the new East Fairmont Middle School in Fairmont, W.Va.
- Project Architect for the design of renovations at the Fairmont Senior High School in Fairmont, W.Va.
- Project Architect for the design and construction of the Marion County Board of Education Office in Fairmont, W.Va.
- Project Architect for the design of the addition to Armstrong Flooring in Beverly, W.Va.
- Project Architect for the design and construction of renovations to Immaculate Conception Church in Clarksburg, W.Va.
- Project Architect for the design and construction of the Star Furniture Store at University Town Center in Morgantown, W.Va.
- Project Architect for the design and construction for an addition and renovations at Simpson Elementary School in Bridgeport, W.Va.

ALWAYS BE A FIRST-RATE
VERSION OF YOURSELF
INSTEAD OF A SEC-
OND-RATE VERSION OF
SOMEBODY ELSE.

Judy Garland



JEFFREY HOSEK, P.E. LEED AP

MECHANICAL ENGINEER
LEED PROJECT ENGINEER
MECHANICAL ENGINEERING DEPARTMENT MANAGER

BACKGROUND:

EDUCATION

UNIVERSITY OF AKRON
B.S. MECHANICAL ENGINEERING

LICENSES

PROFESSIONAL ENGINEER
WV, OH, KY, PA, LA, VA & MN
LEED AP (BD&C)

YEARS EXPERIENCE

21 YEARS

- Project Manager and Mechanical Engineer Kenova Vehicle Exhaust HVAC Upgrades
- Project Manager and Mechanical Engineer Eleanor Readiness Center HVAC Renovations
- Mechanical Engineer of record for the design of a new \$25M high-rise dormitory at Glenville State College, in Glenville, W.Va.
- Lead Mechanical Engineer and Project Manager for the renovation of an existing HVAC system at a primary and middle school in Elizabeth, W.Va.
- Project Manager for intense study to assess redundant cooling to Ohio University's Computer Center in Athens, Ohio.
- Project Manager and Mechanical Engineer for the revision of exhaust duct system in the Welding Shop of Wood County Technical Center.
- Mechanical Engineer of record for the conversion of a multi-unit HVAC system at the Caperton Center on the campus of West Virginia University in Parkersburg, in Parkersburg, W.Va.
- Project Manager and Lead Mechanical Engineer for the demolition and installation of new sterilization equipment for Ohio University 'The Ridges' Konneker Research Lab.
- Project Manager and Mechanical Engineer for a new Career Center in Groveport, Ohio.
- Project Manager and Mechanical Engineer for Olen-tangy School District in Columbus, Ohio for three new elementary schools, one new middle school and one new high school.
- Project Manager and Mechanical Engineer for Ironton City Schools in Ironton, Ohio for a new elementary school and a new middle school.
- Project Manager and Mechanical Engineer for renovations to Wood County Schools in West Virginia.
- Project Manager and Mechanical Engineer for reno-

SOMETIMES THE QUESTIONS ARE COMPLICATED AND THE ANSWERS ARE SIMPLE.

Dr. Seuss



MARK MOORE, P.E.

ELECTRICAL ENGINEER

BACKGROUND:

EDUCATION

WEST VIRGINIA UNIVERSITY INSTITUTE OF TECHNOLOGY
B.S. ELECTRICAL ENGINEERING

LICENSES

PROFESSIONAL ENGINEER
WV & MD

YEARS EXPERIENCE

18 YEARS

- Electrical Engineer for Kenova Vehicle Exhaust HVAC Upgrades
- Electrical Engineer for Eleanor Readiness Center HVAC Renovations
- Electrical Engineer for Camp Dawson Rappel Tower Renovations
- Electrical Engineer for Randolph County Development Authority at Armstrong Manufacturing in Beverly, WV.
- Electrical Engineer for a Commercialization Station for the City of Bluefield, WV.
- Electrical Engineer for upgrades and installation of a new building complex that allows for Fermentation, Chiller Relocation in Maxwellton, West Virginia.
- Electrical Engineer for HVAC renovations for Cabell Huntington Hospital located in Huntington, WV.
- Electrical Engineer for Ona Transmitting Station Electrical Study for WSAZ television station located in Charleston, WV.
- Electrical Engineer for renovations made at the Memorial EP Lab Charleston Area Medical Center in Charleston, WV.
- Electrical Engineer for renovations performed in the Wound Care Clinic at Cabell Huntington Hospital in conjunction with Ed Tucker Architects, in Huntington WV.
- Electrical Engineer for phase 2 renovations for the new Music Therapy program facility at Marietta College in Marietta, OH.
- Prior to joining Pickering Associates was an Electrical Engineer for Boiler replacement and renovations project for the West Virginia Capital Complex.

SUCCESS IS NO ACCIDENT.
IT IS HARD WORK, PERSEVERANCE,
LEARNING, STUDYING, SACRIFICE
AND MOST OF ALL, LOVE
OF WHAT YOU ARE DOING
OR LEARNING TO DO

Pele



JOHN BENTZ, P.E.

CIVIL ENGINEER
PROJECT MANAGER
BRANCH MANAGER

BACKGROUND:

EDUCATION

MARSHALL UNIVERSITY
M.S. ENGINEERING MANAGEMENT

OHIO UNIVERSITY
B.S. CIVIL ENGINEERING

LICENSES

PROFESSIONAL ENGINEER
W.VA., OHIO, KY.

YEARS EXPERIENCE

7 YEARS

- Performed designs to widen County and Township roads to assist with horizontal well traffic movements, including retaining wall design, low water crossings, etc.
- Performed design to renovate existing, non-compliant sidewalk for ADA use for local municipality.
- Assisted with design of roadway extensions and widening to accommodate planned neighborhood developments and other future developments.
- Performed parking study to review current parking demands and lot allocations for healthcare client.
- Assisted with design of drilled shaft retaining wall to correct a roadway slip for West Virginia Department of Highways.
- Design for various water and sewer line replacement projects, including new installations and rehabilitation efforts.
- Performed hydraulic modeling to evaluate rehabilitation of existing bridges to determine waterway impacts.
- Performed civil design of 75,000sf industrial expansion in Beverly, W.Va.
- Assisted with design of parking lot renovations to provide safer driving experience for a local college campus.
- Lead civil engineer on upgrades to local wastewater treatment plant.

ENGINEERING IS A FORM OF ART AND HAS FILLED THE WORLD WITH THINGS OF OBVIOUS VISUAL BEAUTY BUT ALSO SUBTLE FORMS.

Louis Brown



DAVID BOGGS, P.E.

EXECUTIVE VICE PRESIDENT OF DESIGN
SENIOR MECHANICAL ENGINEER,
SENIOR PLUMBING ENGINEER

BACKGROUND:

EDUCATION

MARSHALL UNIVERSITY
M.S. ENGINEERING MANAGEMENT

VIRGINIA TECH.
B.S. MECHANICAL ENGINEERING

LICENSES

PROFESSIONAL ENGINEER
WV & OH

YEARS EXPERIENCE

23 YEARS

- Project Manager for the conversion of a multi-unit HVAC system into a more efficient single unit system at the Caperton Center located on the campus of West Virginia University at Parkersburg.
- Project Manager and plumbing engineer of record for the Mechanical, Electrical and Plumbing (MEP) services on a \$25MM high-rise dormitory at Glenville State College in Glenville, W.Va.
- Project Manager and Plumbing Engineer of record for a triple boiler system replacement to a school in Parkersburg, W.Va.
- Lead Mechanical/Plumbing Engineer of record on the design of a new science facility at Ohio Valley University in Vienna, W.Va.
- Project Manager and Lead Mechanical/Plumbing Engineer for multiple dormitory bathroom renovation projects at Marietta College in Marietta, Ohio.
- Project Manager and Lead Mechanical Engineer for multiple projects at Ohio University in Athens, Ohio.
- Project Manager and Plumbing Engineer of record for a dual boiler system replacement to a school in Parkersburg, W.Va.
- Project Manager and Plumbing Engineer of record for a potable water system repair in an elementary school in Vienna, W.Va.
- Project Manager and Plumbing Engineer of record for a new branch of National College in Parkersburg, W.Va.
- Project Manager and Piping Engineer of record for a new manufacturing facility in Millwood, W.Va..
- Lead Mechanical/Plumbing Engineer of record for a new \$7MM medical office facility in Parkersburg, W.Va.

DETERMINE THAT THE
THING CAN AND SHALL
BE DONE, AND THEN WE
SHALL FIND THE WAY.

Abraham Lincoln



ERIC SMITH, PE

DEPARTMENT MANAGER
STRUCTURAL ENGINEER

BACKGROUND:

EDUCATION

MARSHALL UNIVERSITY
M.S. ENGINEERING MANAGEMENT
WEST VIRGINIA UNIVERSITY
B.S. CIVIL ENGINEERING

LICENSES

PROFESSIONAL ENGINEER
WV & OH

YEARS EXPERIENCE

14 YEARS

- Structural Engineer for a renovation and addition to the Mid Ohio Valley Technology Institute in Saint Marys, West Virginia.
- Structural Engineer for Salt & Motorcycle Storage Building for West Virginia University at Parkersburg in Parkersburg, W.Va.
- Structural Engineer on Eureka Hunter Pipeline, L.L.C. Low Water Crossing.
- Extensive technical experience with civil, structural, and geospatial software packages including STAAD Pro, Presto, Enercalc, AutoCAD, AutoDesk Land Desktop, AutoDesk Civil 3D, and Topo USA.
- Senior Project Manager and Structural Engineer of Record for Catwalk repairs at Ohio University in Athens, Ohio.
- Structural Engineer of Record for NESHAP improvements at Eramet Marietta, Inc.
- Structural Engineer of Record for the Ohio Department of Transportation Facility of Washington County, Ohio. Project included pre-engineered metal building, tensioned fabric structures.
- City of Marietta City Hall Renovations, Marietta, Ohio.
- City of Marietta Wastewater Treatment Plant Renovations, Marietta, Ohio.
- Marietta City Armory Renovations, Marietta, Ohio.
- General Projects for Local Industrial Plants.
- Roof and Elevator Project for Christ United Methodist Church Marietta, Ohio.

PERFECTION IS NOT ATTAINABLE, BUT IF WE CHASE PERFECTION WE CAN CATCH EXCELLENCE.

Vince Lombardi



NICHOLAS M. ARNOLD

BIM COORDINATOR
ARCHITECTURAL DESIGNER
3D PRINTING TECHNICIAN
BUILDING MODELING/GRAPHIC RENDERING,
TECHNICAL SUPPORT

BACKGROUND:

EDUCATION

MARSHALL UNIVERSITY
M.S. TECHNOLOGY MANAGEMENT
MIAMI UNIVERSITY OF OHIO
B.A. ARCHITECTURE

YEARS EXPERIENCE

12 YEARS

- Design Architect for the facade renovations at West Virginia University at Parkersburg's Downtown Center.
- Project Architect for the Theatre Renovations at West Virginia University at Parkersburg.
- 3D Laser Scanning Technician for various existing facility data capture efforts.
- 3D printed conceptual building addition for higher education institution in Marietta, Ohio.
- Modeler for coordination and design of a state of the art mineral wool facility in Jackson County, W.Va..
- Collected and Analyzed building/site data to develop a current inventory of spaces and use-cases for a local university to prepare for campus master planning activities.
- Digitally modeled and rendered conceptual renovation designs for a residence hall at Ohio Valley University in Vienna, W.Va. for marketing and fund raising literature.
- Field documented existing conditions at a funeral home in Belpre, Ohio for an expansion/renovation project.
- 3D Printing Technician responsible for converting 3D models, printing and developing presentation displays for a variety of building, structure, equipment and utility models for project team meetings and design reviews.
- Modeled and rendered proposed design concepts for modifications to existing conference, hospitality and classroom facilities at several local institutions.

DESIGN IS WHERE SCIENCE AND ART BREAK EVEN.

Robin Matthew



WILLIAM SHOWALTER, P.S.

SURVEYING DEPARTMENT MANAGER
PROFESSIONAL SURVEYOR

BACKGROUND:

EDUCATION

OHIO UNIVERSITY
B.S. CIVIL ENGINEERING

LICENSES

PROFESSIONAL SURVEYOR
WV [REDACTED] / OH [REDACTED]

YEARS EXPERIENCE

22 YEARS

- Lead Surveyor for Tyler County, WV County Route 18/4 Widening Project.
- Lead Surveyor for Marshall County, WV County Route 7/4 Bridge Replacement Project.
- Lead Surveyor for Marion County, WV County Route 6/1 Widening Project.
- Lead Surveyor for Marion County, WV County Route 3/3 Widening Project.
- Lead Surveyor for Tyler County, WV County Route 42 Bridge Project.
- Lead Surveyor for City of Marietta State Route 60 Widening Project.
- Lead Surveyor for City of Marietta Green Street Widening Project.
- Lead Surveyor on Camden Clark Memorial Hospital South Tower Expansion.
- Lead Surveyor on Camden Clark Memorial Hospital Transportation & Phlebotomy Project.
- Lead Surveyor on St. Joseph Hospital Office Annex (DeSales Medical Center).
- Lead Surveyor on First Colony Center commercial development, Marietta, Ohio.
- Lead Surveyor on City of Vienna Water Tanks Renovation Project, Vienna, W.Va.
- Lead Surveyor on American Land Title Association (ALTA) Survey for the construction of a co-generation plant.
- Lead Surveyor for Triad Hunter -Ormet 2-15 Boundary.
- Lead Surveyor for MPH Hotels Comfort Suites project.

WE ALL LIVE UNDER THE
SAME SKY, BUT WE DON'T
ALL HAVE THE SAME
HORIZON.

Konrad Adenaur



KANTI S. PATEL

GEOTECHNICAL ENGINEER

BACKGROUND:

EDUCATION

GUJARAT UNIVERSITY

B.E. CIVIL ENGINEERING, 1977

WEST VIRGINIA UNIVERSITY

M.S. CIVIL ENGINEERING, 1979

PROFESSIONAL REGISTRATION

LICENSED PROFESSIONAL ENGINEER IN THE FOLLOWING STATES AND COMMONWEALTHS:

WEST VIRGINIA

OHIO

KENTUCKY

VIRGINIA

YEARS EXPERIENCE

37 YEARS

Mr. Patel has over 37 years of experience in the field of geotechnical engineering. He has been responsible for a wide variety of soils and foundation projects throughout West Virginia, Ohio, Virginia and surrounding states. His experience includes initiation, investigation, analysis, and design of classic geotechnical projects including residential, commercial, industrial facilities, and landslide stabilization.

He has performed and supervised a large variety of engineering projects including: School buildings, hospitals, office buildings, chemical facilities, motel building, shopping mall, roadways, air facilities and runways, and solid waste landfills. He has coordinated the drilling and soil laboratory analysis programs for large projects such as the Mt. Olive Prison site, Riverside High School, Embassy Suites Hotels, Holiday Inn Hotels, Ladely Tower. He is thoroughly knowledgeable of the soil and subsurface conditions in West Virginia, Virginia, Pennsylvania, Ohio, Kentucky, and Maryland. He has performed over 100 landslides study and stabilization project in West Virginia, Virginia, Ohio and Kentucky.



JOE H. FRANCIS

PROJECT MANAGER

BACKGROUND:

EDUCATION

A.A.S. (ASSOCIATE IN APPLIED SCIENCE) MAJORING IN BUILDING CONSTRUCTION-1982

PROFESSIONAL CERTIFICATION

CERTIFIED WELDING INSPECTOR -

AMERICAN WELDING SOCIETY

CERTIFIED COMPACTION TECHNICIAN -

WV DEPARTMENT OF HIGHWAYS

CERTIFIED CONCRETE TECHNICIAN -

WV DEPARTMENT OF HIGHWAYS

LICENSED ASBESTOS INSPECTOR -

WV LICENSE # A1000564

LICENSED LEAD INSPECTOR -

WV LICENSE# P1000013

PROFESSIONAL AFFILIATIONS

AMERICAN WELDING SOCIETY

YEARS EXPERIENCE

35 YEARS

Mr. Francis has over 35 years of experience in the field of testing and inspection of construction materials. His experience includes inspection of shallow and deep foundation system (pipe piling, H-beam, timber piles, caissons, and auger-cast piling), soil compaction testing, concrete testing, concrete coring, structural steel inspection (bolt testing, weld inspection including ultrasonics, magnetic particle, dye penetrant, and visual inspection), boring inspector on various WVDOH projects, and various laboratory testing.

His responsibilities have included all phases of quality control on numerous large projects (airports, Army Corps of Engineers projects, prisons, schools, hospitals, commercial building, bridges, and roadways).

He has also worked for 30 years as manager of field laboratory services with over 19 employees.



RYAN D. JACKSON

PROJECT MANAGER

BACKGROUND:

EDUCATION

WEST VIRGINIA UNIVERSITY

B.S. AG. IN ENVIRONMENTAL PROTECTION, MAY 1997

MARSHALL UNIVERSITY

M.S. IN ENVIRONMENTAL SCIENCE, CURRENT

PROFESSIONAL CERTIFICATION

ASTM E 1527 - PHASE I ASSESSMENT- 1998

ASTM E 1903 - PHASE II ASSESSMENT - 2000

WETLANDS REGULATIONS IN WV - 1999

CERTIFIED COMPACTION TECHNICIAN

WV DEPARTMENT OF HIGHWAYS

CERTIFIED ENVIRONMENTAL INSPECTOR

PROFESSIONAL CERTIFICATION

ENVIRONMENTAL ASSESSMENT ASSOC.

CERTIFIED ENVIRONMENTAL INSPECTOR

YEARS EXPERIENCE

20 YEARS

Mr. Jackson has over 20 years of training and experienced in the environmental field. His experience includes performance of numerous Phase I and II Environmental Site Assessments throughout West Virginia, Ohio and Kentucky, UST removal and tank pit closure to WVDEP specifications, site characterization development of water monitoring plans, storm water monitoring, environmental sampling, and asbestos inspections.

Mr. Jackson has over 18 years of experience in the field of testing and inspection of construction materials. His experience includes inspection of shallow and deep foundation systems (caissons, helical piers and auger-cast piling), soil compaction testing, concrete testing, placement of stone base, boring inspector on various WVDOH projects, boring inspection on numerous geotechnical exploration projects, and various laboratory testing procedures.

His responsibilities have included all Phases of quality control on numerous large projects (schools, hospitals, commercial buildings, bridges and roadways). Mr. Jackson has developed and implemented numerous geotechnical exploration plans throughout the region on a variety of educational, commercial, retail, government, and energy related projects.



REFERENCES



Wood County Schools Parkersburg, WV

Martin Best, Physical Plant Director
(P) (304) 420-9568
(E) martin.best@k12.wv.us

Wirt County Schools Elizabeth, WV

Daniel Metz, Superintendent
(P) (304) 275-4279



Marietta College

Marietta College Marietta, OH

Fred Smith, Director of Facilities
(P) (740) 376-4367
(E) smithf@marietta.com



Parkersburg and Wood County Public Library Parkersburg, WV

Brian E. Raitz, Director
(P) (304)420-4587 xt. 501
(E) raitzb@park.lib.wv.us

Washington County Public Library Marietta, WV

Justin Mayo, Director
(P) (740) 373-1057



WASHINGTON STATE COMMUNITY COLLEGE *Be Inspired. #BeWSCC*

Washington State Community College Marietta, OH

Jess Raines, CPA, VP of Finance & Operations
(P) (740) 885-5621
(E) jraines@wscc.edu

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

(Name, Title)

Sean G. Simon, AIA, NCARB/Charleston Branch Manager/Project Manager

(Printed Name and Title)

318 Lee Street, West, Suite 200, Charleston, WV 25302

(Address)

304-991-6275 304-345-1813

(Phone Number) / (Fax Number)

ssimon@pickeringusa.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Pickering Associates

(Company)

Sean G. Simon, AIA, NCARB *BRANCH MANAGER*

(Authorized Signature) (Representative Name, Title)

Sean G. Simon, AIA, NCARB/Charleston Branch Manager/Project Manager

(Printed Name and Title of Authorized Representative)

March 11, 2021

(Date)

304-991-6275 304-345-1813

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Pickering Associates

Authorized Signature: *Travis S. Datto* Date: March 11, 2021

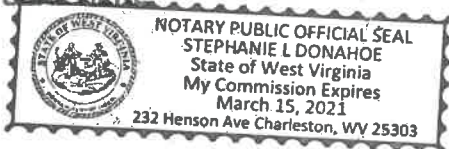
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 11th day of March, 2021.

My Commission expires March 15th, 2021.

AFFIX SEAL HERE



NOTARY PUBLIC

Stephanie L. Donahoe

Purchasing Affidavit (Revised 01/19/2018)