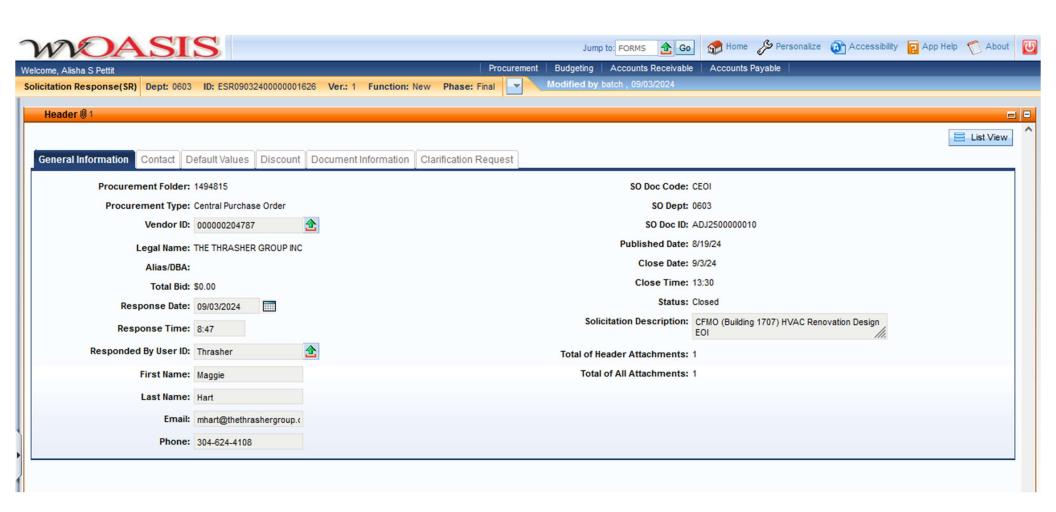
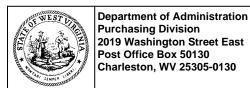


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

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





State of West Virginia Solicitation Response

Proc Folder: 1494815

Solicitation Description: CFMO (Building 1707) HVAC Renovation Design EOI

Proc Type: Central Purchase Order

 Solicitation Closes
 Solicitation Response
 Version

 2024-09-03 13:30
 SR 0603 ESR09032400000001626
 1

VENDOR

000000204787

THE THRASHER GROUP INC

Solicitation Number: CEOI 0603 ADJ2500000010

Total Bid: 0 Response Date: 2024-09-03 Response Time: 08:47:05

Comments: N/A

FOR INFORMATION CONTACT THE BUYER

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

Vendor Signature X FEIN#

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

DATE

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------------------------|-----|------------|------------|-----------------------------|
| 1 | CFMO (Building 1707) HVAC Renovation | | | | 0.00 |
| | Design EOI | | | | |

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

Commodity Line Comments: N/A

Extended Description:

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

 Date Printed:
 Sep 3, 2024
 Page: 2
 FORM ID: WV-PRC-SR-001 2020/05



WEST VIRGINIA ARMY NATIONAL GUARD

CFMO Office (Building 1707)
HVAC Renovations/Replacement
CEOI 0603 ADJ2500000010

Submitted by:

The Thrasher Group, Inc. September 3, 2024

THRASHER

September 3, 2024

Attn: Mr. David Pauline, Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

RE: West Virginia Army National Guard — CFMO Office (Building 1707) HVAC Renovations/Replacement CEOI 0603 ADJ2500000010

Dear Mr. Pauline and Members of the Selection Committee:

The West Virginia Army National Guard is in need of engineering and architectural services to redesign and replace the HVAC equipment in Building 1707 (CFMO Office) to better support the needs of individuals utilizing the facility. With a variety of phases and services required for this type of project, as well as bidding assistance, cost estimating, and construction administration, the WVANG will need a team of multi-disciplinary professionals for a successful outcome. The Thrasher Group is the right firm for the job.

Thrasher has been serving clients across the Mid-Atlantic region for over 40 years. We have developed a strong portfolio of renovation and building improvement projects in that time, including projects just like yours. We are well versed in the complexities of these projects and have the knowledge to design and execute this work within the specifications set up by the West Virginia Army National Guard.

Our cumulative knowledge and experience with HVAC projects will enable us to work with you to efficiently identify project scope, establish accurate budgets, and develop successful design solutions. Our team has a superb track record of producing solid construction documents, getting projects competitively bid, administering the construction process, and ensuring projects are completed successfully on time and within budget. Not only that, but our team is currently working on the Stormwater Drainage Design project, which is also located within the Coonskin Complex. This means that members of team Thrasher will already be on site consistently and will be easily accessible should any issues arise.

We appreciate the opportunity to share our qualifications with you and further discuss how The Thrasher Group can support the West Virginia Army National Guard now and in the future.

Sincerely,

The Thrasher Group, Inc.

Matt Breakey, AIA, NCARB, LEED AP

Project Manager & Architect



300+

EMPLOYEES

- **36** Licensed Professional Engineers
- 10 Licensed Professional Surveyors
- 6 Licensed Professional Architects
- 2 Licensed Professional Landscape Architects

MAIN POINT OF CONTACT:

Matt Breakey, AIA, NCARB, LEED AP Project Manager & Architect

mbreakey@thethrashergroup.com

Cell: 304-641-3741 Office: 304-848-6494



40+

YEARS

of delivering successful projects



OFFICES
in West Virginia:
Beckley
Bridgeport
Charleston
Martinsburg
Scott Depot
Weirton
Wheeling

OUR SERVICES

- MEP Engineering
- > Architecture
- > Utility Engineering
- > Site Engineering
- > Environmental
- > Survey/Geospatial
- > Transportation
- > Construction Services



Diverse services that help communities grow.

THRASHER'S GOT IT

APPROACH TO YOUR GOALS

A critical step in meeting your goals is first ensuring we understand them. Thrasher's team has thoroughly reviewed the Expression of Interest request and is confident in our ability to deliver the highest-quality solutions to your problems. We are capable of meeting each goal/objective you have outlined and feel strongly that you will be satisfied with the outcome you receive.

We understand your goals for the HVAC renovations/replacements at the CFMO Office (Building 1707) are:

Goal 2.1 | Design

The Thrasher Group can provide the West Virginia Army National Guard with all of the necessary engineering and architectural design services for this project including mechanical, electrical, and plumbing services — while utilizing energy efficient, economically and maintenance friendly equipment. Our team of in-house experts will handle all outlined key design elements such as construction design, assistance in competitive bidding for the construction work, construction administration, and more.

Goal 2.2 | Utility Location

With one of the largest survey crews in the state, we have the ability to research and investigate the location of both underground and above ground utilities around the project site. Thrasher has vast experience in this project component and will not only be able to locate these existing features, but can also provide drawings and specifications of them as needed.

Goal 2.3 | Drawings, Specifications, and Estimates

Our team will include drawings and specifications at the 35%, 65%, 95%, and 100% milestones. Cost estimating will be provided in the same increments. Our team will work closely with the Army National Guard to ensure estimates are accurate and the project proceeds within budget. We will take the Guard's feedback into consideration on both budget and design at each increment and work with all stakeholders to produce final designs that satisfy the needs of the project.

Goal 2.4 | Bid Assistance and Construction Administration

Competitive bid assistance and construction administration is part of the Thrasher package. Our team is well versed in these processes and has highly experienced staff available for your assistance. We have developed relationships with contractors all across the state and actively work with them to get the most bids possible for our clients' projects, acting as a resource to both the contractors and the client throughout the bid process.

APPROACH TO YOUR GOALS

Thrasher will keep your project goals in mind throughout the process. We will address each in turn, working directly with the West Virginia Army National Guard to meet your needs with the project approach outlined below. Thrasher will conduct design review meetings with your team at each phase of the process, making sure we are keeping with the overall intention of the project.

Our general steps for project management are as follows:

Step 1 - Site Visit

Your assembled team of engineers and technicians will conduct a site visit. This group will evaluate the project conditions and identify and document potential problem areas. We will coordinate with your team and any identified key stakeholders to take all the facts into consideration during this process.

Step 2 - Conceptual Design and Report

Thrasher will prepare a conceptual design for the HVAC renovations/replacements at the CFMO Office. Where applicable, we will also provide design alternatives for consideration. We will then prepare a written report of the conceptual designs and outline any issues.

Step 3 - Construction Documents

Our team will provide design solutions and construction documents to the appropriate personnel for the project. These plans will be carried forward to final design based upon the conceptual design report. Thrasher recognizes that you are requesting drawings and specifications at 35%, 65%, 95%, and 100% and will provide both drawings and cost estimates at those intervals. We will complete the final design documents based upon comments received and conclusions throughout the design review process. Our field evaluations and design approach will specifically address these issues in the construction documents.

Step 4 - Bid Process

We will assist the Purchasing Division and stakeholders in preparation of the bid documents and will attend pre-bid meetings and assist in issuance of addenda.

Step 5 - Construction Administration

The project team will review project submittals, attend project meetings, and provide inspection of the construction being completed. The project team will also provide a final punch list inspection at project completion.

Additionally, Thrasher will develop a program to keep your team abreast of potential construction issues. We will prepare design repairs with any adjacent property owners in mind. We plan to address any issues that may arise through clear and concise construction notes, details, and specifications to ensure the safety of the workers and environment.

Step 6 - Project Close Out

Upon completion of the project, the Thrasher team will provide final as-built drawings in both CAD and PDF format to the appropriate personnel as needed.

COMMUNICATION

Communication throughout any project is a primary key to success. To that end, Thrasher will begin communication with the WVANG immediately upon notification of award and will maintain consistent lines of communication for the duration of the project. This will ensure all parties involved — owner, contractor, and engineer — will always be apprised of the project happenings.

The two main components of the project approach will be design and construction. Each will have its own plan for communication.

Communication During Design

Prior to the initiation of design services, Thrasher's Project Manager Matt Breakey will discuss preferred methods of communication with the WVANG's point of contact. Updates during the design phase can occur in numerous ways:

- » Weekly status updates via email
- » Weekly conference calls
- » Monthly progress meetings

No matter the methods preferred, our project teams are well versed in keeping our clients abreast of project status. We can customize your project's communication plans to best fit your teams' wants and needs.

Communication During Construction

Before construction begins, Thrasher's Project Manager Matt Breakey will again meet with the WVANG team to determine preferred communication tools for this phase of the project. Open, consistent communication will be paramount to keep the project on-time and within budget.

Additionally, Thrasher will conduct monthly progress meetings with the contractor, the WVANG, and key project stakeholders throughout the duration of the project. Meeting minutes will be distributed to all attendees and any other agents identified by the WVANG. Action items will be documented within the meeting minutes.

Throughout construction, Thrasher will have people on-site for project representation as well as material testing. Anytime a Thrasher employee is on site during construction, a field report will be prepared. Field reports will be reviewed by the engineering team and distributed to the WVANG's construction representative on a weekly basis.

Thrasher has an internal Quality Control Policy to ensure our projects move forward efficiently and effectively. The objectives of this manual are to continually improve the quality of the design and technical deliverables Thrasher provides to its internal and external clients.

This manual illustrates the basic requirements for quality control in our projects. It describes the methods for checking and reviewing product elements and client deliverables and includes rigorous comprehensive written check-lists for each stage of the design process, document production, and construction activities.

The purpose of these QC methodologies is to reduce or eliminate the potential for errors, omissions, ambiguities, and inconsistencies.

The policy outlines three main areas:

General

Defines the purpose, intent and limitations, definitions, and implementation

Project Management Procedures

Presents required procedures specific to this practice that allow for the efficient and accurate management of projects

Check and Final Review Procedures

Presents required procedures specific to this practice that are used to insure technical accuracy of the work product





Thrasher follows four main cost control principles:

Thorough construction documents — Starting off with detailed construction documents helps the entire project run more smoothly. By laying an accurate, realistic picture at the beginning of the process, we are able to complete your project more efficiently and with fewer change orders.

In-depth review process — The Thrasher team participates in an in-depth review process to ensure there is a thorough understanding of your project. Our construction administration team visits your site in person so we know exactly what is needed for the space.

Understanding of what things cost — Thrasher has a knowledgeable construction administration team that understands what it truly costs to make things happen. Rather than relying on general industry standards, our Construction Estimator, Jim Decker, can tell you what something will cost in actuality. Jim, who has a contracting license, knows how to navigate both sides of a bid process and can deliver an accurate look at your project costs up front.

Respect for your wallet — We respect your business needs and work to ensure the lowest-cost options we can find. We also keep you updated of budget throughout the process: An initial construction cost will be calculated to reflect your budget, and construction cost estimates will be delivered with the drawings at the end of Schematic Design, Design Development, and Construction Documentation. Adjustments to size and/or quality will be made, as necessary, during each design phase to maintain your budget.



Construction estimating and budgeting is one of the most important parts of what Thrasher can provide you. Without accurate budgets, there is no tool to guide the design process and issues will be inevitable. By including cost estimating as a part of the project scope from day one, we are able to avoid issues before they arise and keep your project within a reasonable cost.

And our estimates go beyond the typical system — rather than simply providing cost per foot or lump sum price, Thrasher will provide contractor-grade estimates that look at every part of the project. We do detailed take-offs of materials and look at every man hour needed to complete a project and factor this in accordingly. Then, we use our thorough understanding of the local market and material costs to accurately design within your budget.



Education Bachelor of Science, Architectural Engineering Fairmont State University

Advanced Certificate, Educational Facilities Planning San Diego State University

Affiliations

- American Institute of Architects - Associate, West Virginia and National Chapters
- > Accredited Learning Environment Planner (ALEP)
- Council of Educational Facilities
 Planner
- > West Virginia Energy Services Coalition
- The Education Alliance
 Business and Community for
 Public Schools Board of
 Directors

CRAIG BAKER, ALEP

PRINCIPAL

PROFESSIONAL OVERVIEW

Craig Baker, ALEP, is an experienced designer and manager with an extensive background working with clients to design, plan, and manage projects both large and small. As an Accredited Learning Environment Planner (ALEP), he has a special interest in the functionality and design of educational facilities.

Craig has worked on a wide variety of projects during his tenure at Thrasher. His knowledge includes a thorough understanding of industrial facilities, administrative office spaces, academic building design, government buildings, residences, medical facilities, and hospitality.

As manager of Thrasher's Building's and Facilities Market, Craig works hand-in-hand with staff and clients to ensure projects remain on time and within budget. In addition to his strong technical skills, Craig's attention to client communication and responsiveness make him an excellent manager. He manages coordination of construction, detailed construction document preparation, bidding, construction management, and contract administration.

EXPERIENCE

Harrison County Commission Courthouse HVAC Replacement Principal | Harrison County, WV

Taylor County Courthouse Annex 2 HVAC ImprovementsPrincipal | Taylor County, WV

Grafton Housing Authority Elizabeth Cather Towers HVAC RenovationPrincipal | Taylor County, WV

Fairmont State University Natatorium and HVAC RenovationsPrincipal | Marion County, WV

Fairmont State University Hunt Haught Hall and HVAC Renovations
Principal | Marion County, WV

Roane County Schools New HVAC Cooling Towers Principal | Roane County, WV

Wirt County High School New Roof, HVAC, and Fire Alarm Replacement Principal | Wirt County, WV

Belington Elementary School HVAC Upgrades Principal | Barbour County, WV



Bachelor of Architecture, Pennsylvania State University

Bachelor of Science, Architecture Pennsylvania State University

Registrations

Professional Architect:

- > West Virginia
- > Maryland
- > Pennsylvania
- > Michigan
- > Indiana
- > Kentucky
- > Ohio
- > Virginia

Affiliations

- LEED Accredited Professional,
 US Green Building Council
- American Institute of Architects - Board Member (AIA)
- President of WV Chapter of American Institute of Architects
- National Council of Architectural Registration Boards (NCARB)

MATT BREAKEY, AIA, NCARB, LEED AP

PROJECT MANAGER & ARCHITECT

PROFESSIONAL OVERVIEW

Matt Breakey, AIA, NCARB, LEED AP, has over 20 years of experience providing architectural design and management services. He has worked with a wide range of clients, including those in the education section (K-12 and higher education), state, federal, correctional, commercial, and multi-unit residential and healthcare providers.

Matt spent part of his career providing oversight for major capital construction projects for two auxiliary entities at a higher education institute. This experience gave him a refined eye for the design aspect as well as project construction and feasibility. As a LEED Accredited Professional, Matt works with clients to find cost saving and sustainable features that will enhance their projects. His educational background combined with his well-executed projects make Matt a highly sought-after architect.

EXPERIENCE

WVU Towers Dorms HVAC, Sprinkler, and Fire Alarm Renovations Project Manager | Monongalia County, WV

Preston High School HVAC Upgrades Project Manager | Preston County, WV

Roane County Schools New HVAC Cooling Tower Project Manager | Roane County, WV

Grafton City Hospital HVAC and Life Safety RenovationProject Architect | Taylor County, WV

Boy Scouts of America JW and Hazel Ruby Welcome CenterProject Architect | Fayette County, WV

Boy Scouts of America Rex W. Tillerson Leadership Center Project Manager | Fayette County, WV

Doddridge County Commission Courthouse RenovationsProject Manager | Doddridge County, WV

Harrison County Courthouse Interior and Exterior Renovations
Project Manager | Harrison County, WV

Calhoun-Gilmer Career Center Phase III Renovations
Project Manager | Calhoun County, WV

Doddridge County Schools Early Childhood AcademyProject Architect | Doddridge County, WV



Bachelor of Science, Mechanical Engineering West Virginia University

Registrations

Professional Engineer:

- > West Virginia
- > Virginia
- > Ohio
- > Kentucky

Affiliations

 American Society of Heating, Refrigerating, and Air Conditioning Engineers Member

KEN SMITH, PE

MECHANICAL ENGINEER

PROFESSIONAL OVERVIEW

Ken Smith, PE, has become a vital member of the Thrasher team with his impressive experience in mechanical engineering, project management, and construction administration. His skills in HVAC system design (heating, ventilation, and air conditioning), bidding and estimating, and energy efficiency have led to the success of numerous projects.

Ken utilizes notable leadership and communication skills as a Project Manager by coordinating with clients and engineers regarding project requirements. Additionally, he has extensive proficiency in designing HVAC systems for offices, schools, multifamily residential buildings, and other structures including water and wastewater facilities.

EXPERIENCE

Glenville State College HVAC Repair Project Manager | Gilmer County, WV

McDowell County Schools Rooftop Units and HVAC Control Upgrades Mechanical Engineer | McDowell County, WV

Yeager Airport HVAC Replacement Project Engineer | Kanawha County, WV

City of Ripley Wastewater Treatment Plant HVAC Design Mechanical Engineer | Jackson County, WV

Town of Kermit Water Treatment Plant HVAC Design Mechanical Engineer | Mingo County, WV

Paden City Municipal Water Works Emergency Water Treatment Plant Upgrades Mechanical Engineer | Tyler and Wetzel Counties, WV

Benedum Airport Authority Bombardier Aircraft Hangars Mechanical Engineer | Harrison County, WV

Harrison County Commission Public Safety Building Mechanical Engineer | Harrison County, WV

Hardy County Public Service District Office Building Mechanical Engineer | Hardy County, WV

Dominion Energy Mount Storm New Facility Mechanical Engineer | Grant County, WV

Doddridge County Schools Early Childhood AcademyMechanical Engineer | Doddridge County, WV



Bachelor of Science, Electrical Engineering West Virginia University Institute of Technology

Certifications

- Underground Coal Miner
 3-13715, Surface Coal Miner
 3-9346, Certified
- Electrician Low/Medium/High 3-219, Surface Mine Foreman S-3824-04, Class
- > 33 EMT-M, Certified Unlimited Instructor EC,EE,IS,IU
- > AEP Class C Substation

Trainings

- P&H Mining Equipment 4100XPB Mechanical and Electrical
- Rockwell Automation
 PLC5 Maintenance and
 Troubleshooting
- Rockwell Automation
 SLC500 Maintenance and
 Troubleshooting

BRIAN HENSLEY

ELECTRICAL DESIGNER

PROFESSIONAL OVERVIEW

Brian Hensley is an Electrical Designer serving Thrasher in a number of capacities. He works primarily with the Buildings and Facilities and Water Resources Markets, providing expertise in electrical work of all types. He has served as an MEP specialist for both public and private clients, working on everything from educational facilities to utility extensions and much more. Prior to joining Thrasher, he supervised projects such as installation and maintenance of complex mining equipment and power lines, substation maintenance, and underground communications. His understanding of electrical design, paired with his ability to find innovative solutions, makes him a valued member of the Thrasher team.

EXPERIENCE

City of Salem Armory HVAC Evaluation Electrical Designer | Harrison County, WV

Hatfield-McCoy Regional Recreation Authority Ashland Resort Electrical Designer | McDowell County, WV

Boy Scouts of America John Tickle Training Center Electrical Designer | Fayette County, WV

Boy Scouts of America Steve A. Antoline Conservation Center Electrical Designer | Fayette County, WV

Chapmanville Towers Senior Housing Renovation Electrical Designer | Logan County, WV

Parkland Place Senior Housing Renovation Electrical Designer | Wood County, WV

Dominion Energy Mount Storm Office Building Electrical Designer | Grant County, WV

Access Health/Rite Aid Building Conversion Electrical Designer | Raleigh County, WV

City of Charleston Police Station Renovations Electrical Designer | Kanawha County, WV

Baker Heights Fire Station Electrical Designer | Berkeley County, WV

North Central West Virginia Airport Bombardier Hangars Electrical Designer | Harrison County, WV



Associate Degree, Mechanical Design Ashland Regional Technology Center

Certifications

 Mechanical Drafting, AutoCAD R13&14 (Ashland Regional Technology Center)

Affiliations

 Associated Builders and Contractors, Inc.

DUANE **BOYLE**

PLUMBING DESIGNER

PROFESSIONAL OVERVIEW

Duane Boyle, Plumbing Designer, brings Thrasher value in several capacities. He has provided plumbing designs for various project types over the years, such as tenant build-outs, schools, assisted living and memory care facilities, and warehouses. Several of Duane's daily duties consist of performing plumbing calculations, fixture selections, attending project development meetings, checking shop drawings, and coordinating with all other disciplines. Most of his work involves providing these design services from the beginning to end of a project using the most current versions of AutoCAD and Revit. Duane is capable of providing field verified documents of all existing plumbing systems on site and hand drawn existing systems for use in the design and development of new construction documents. He also performs field inspections and generates field reports of observations.

EXPERIENCE

City of Charleston Police Station RenovationsPlumbing Designer | Kanawha County, WV

Dominion Energy Mount Storm New Office Building Plumbing Designer | Grant County, WV

Yeager Airport Restroom RenovationsPlumbing Designer | Kanawha County, WV

Pocahontas Memorial Hospital Rural Health Addition Project Plumbing Designer | Pocahontas County, WV

North Central West Virginia Airport Bombardier Hangars Plumbing Designer | Harrison County, WV

North Central West Virginia Airport Aurora Hangar Plumbing Designer | Harrison County, WV

Hardy County Public Service District Office Building Renovations
Plumbing Designer | Hardy County, WV

The Landing at Meadow View ApartmentsPlumbing Designer | Harrison County, WV

Access Health Women's Health Clinic Plumbing Designer | Raleigh County, WV

Camden on Gauley Richwood Clinic Plumbing Designer | Nicholas County, WV REFERENCES

Pleasants County Board of Education

Mr. Michael Wells, Superintendent 202 Fairview Drive St. Marys, WV 26170 304-684-7099

City of Morgantown

Ms. Emily Muzzarelli, Assistant City Manager 389 Spruce Street Morgantown, WV 26505 304-225-3583

Dominion Energy Virginia

Mr. Victor Torres, Project Manager 707 E. Main Street Richmond, VA 23219 804-382-7859



MATT BREAKEY, AIA, NCARB, LEED AP

PROJECT MANAGER



MATTHEW BREAKEY

Name: BREAKEY MATTHEW

Credential ID:

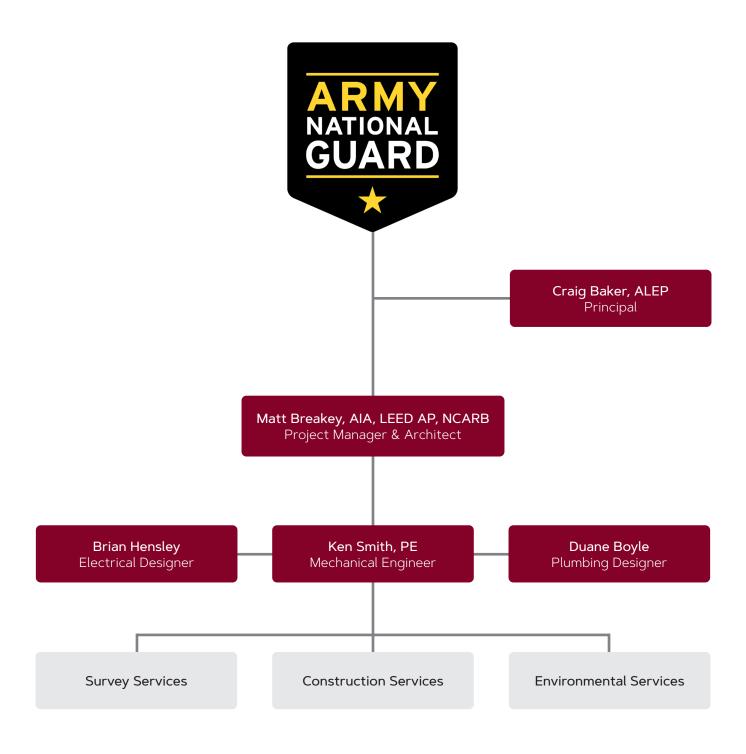
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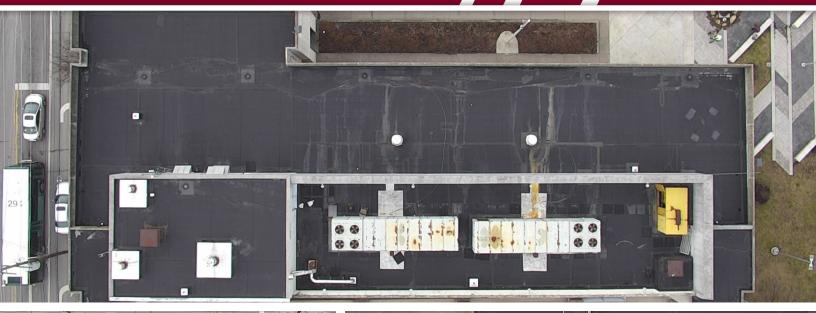
Disciplinary Action: N/A

KEN SMITH, PE

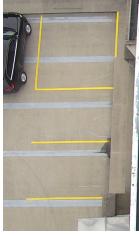
MECHANICAL ENGINEER

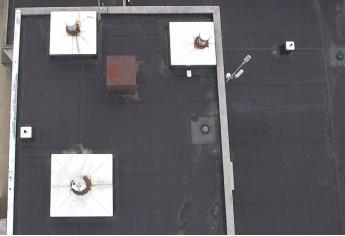
| Name: | KENNETH E. SMITH |
|--------------------------------|--|
| WV Professional Engineer: | PE License Number: |
| | PE License Status: Active |
| | PE Issue Date: 07/16/1992 |
| | PE Expiration Date: 12/31/2024 |
| Continuing Education Claim: | Qualifying Hours from Last Renewal or Reinstatement: 37.50 |
| | Carryover Hours for Next Renewal: 7.50 |
| | Last Renewal or Reinstatement Date*: 12/7/2022 |
| WV Engineer Intern: | El Certification Number: |
| | El Issue Date: |
| Primary Address of Record: | |
| Primary Employer of Record: | THE THRASHER GROUP, INC. |













CITY OF MORGANTOWN PUBLIC SAFETY BUILDING

Roof Repair and New HVAC System

Client Contact:

Mr. Marvin Davis, City Manager 389 Spruce Street | Morgantown, WV 26505 304-290-3460

The City of Morgantown hired The Thrasher Group to demonstrate their proficiency in architecture and design to renovate the Morgantown Public Safety Building. The issues that needed addressed were water causing the roof to leak, thermal comfort throughout the building, and to design a fiscally viable facility.

Thrasher's Buildings and Facilities Market members worked alongside the client and sub-consultants to estimate the cost of construction and renovations. Following the cost analysis, it was determined the project needed to be divided into two phases until a second round of funding transpired. Our team began to prioritize aspects of the project to fully utilize their services throughout phase one.

Our team addressed the leaks in the roof and replaced the old rooftop HVAC units during the initial phase of the project. The replacements were immediately tested, adjusted, and balanced. To strategize the second phase of the project, our team used infrared scanning to identify areas of heat loss in the building. Thrasher plans to replace additional components of the HVAC system to maximize thermal comfort in the Public Safety Building.



ROANE COUNTY SCHOOLS HVAC Renovations

Client Contact:

Dr. Richard Duncan, Superintendent 813 Capital Street | Spencer, WV 25276 304-927-6400

Roane County Schools had a list of projects that needed accomplished at schools throughout their district. Five schools were in need of work, ranging from HVAC replacements, security upgrades, and roof replacements to the planning and design of a new school.

In order to secure funding for these much needed projects, the Board of Education opted to go through a bond call. The Thrasher Group was hired to work with the Board of Education to help educate the public on the necessity of passing the bond, and was ultimately successful in doing so. Roane County voters approved the bond to fund more than \$9.5 million in facility improvements across the county, which Thrasher will is providing architectural services for currently.





CALHOUN-GILMER CAREER CENTERRoof and HVAC Upgrades

Client Contact:

Mr. Bryan Sterns, Director 5260 West Virginia 5 | Grantsville, WV 26147 304-354-6151

The Thrasher Group worked with the Calhoun-Gilmer Career Center for several years to complete a multi-phase project that upgraded several facets of the Center.

- » Phase I of the project focused on upgrading the onsite wastewater treatment plant, and the complete demolition and reconstruction of all restrooms in the facility.
- » Phase II was multi-faceted. During this portion of the project, Thrasher completed roof repairs, parapet coping, flooring upgrades, and painted doors and frames.
- » Phase III dealt with external features and various security upgrades.







MARION COUNTY SCHOOLS North Marion High School HVAC

Client Contact:

Mr. L.D. Skarzinski, Administrative Assistant 1516 Mary Lou Retton Dr. | Fairmont, WV 26554 304-367-2100

The Marion County Board of Education hired The Thrasher Group to do a complete HVAC replacement at North Marion High School. The work consisted of a replacement of the existing two-pipe system with a completely new four-pipe system. Work on this project was completed while school was in session along with during summer months. A substantial amount of electrical work and a full ceiling replacement were also completed along with all HVAC work.





MARION COUNTY SCHOOLS

East Fairmont Middle School HVAC Replacement

Client Contact:

Mr. L.D. Skarzinski, Administrative Assistant 1516 Mary Lou Retton Dr. | Fairmont, WV 26554 304-367-2100 The Thrasher Group was hired by the Marion County Board of Education to complete a full HVAC replacement at East Fairmont Middle School. The work included replacing the existing malfunctioning system with a new state of the art VRF System and DDC controls. Also included as part of this work were new refrigerant lines and ceilings where required. This work is scheduled to be completed by the start of the 2025 school year









WIRT COUNTY SCHOOLS

High School, Primary School, and Middle School Renovations

Client Contact:

Mr. Jeff Smith, Director of Transportation/Maintenance PO Box 189 | Elizabeth, WV 226143 304-275-8965 The Thrasher Group was hired by the Wirt County Board of Education to re-roof both the Wirt County High School and the Middle/Primary School. This project included the replacement of every roof at these schools with new 20-year membrane and adding new insulation to increase the amount of thermal performance in the buildings. Also included as part of this project is the replacement of rooftop HVAC equipment, controls, and a fire alarm system.





FAIRMONT STATE UNIVERSITY Hunt Haught Hall Renovation

Client Contact:

Mr. Tom Tucker, Facilities Manager 1201 Locust Avenue | Fairmont, WV 26554 304-367-4861

The Thrasher Group provided all architectural services which included planning, design, and construction administration for the renovation of Hunt Haught Hall at Pierpont Technical College/Fairmont State University. Renovations included replacement and repair of the glass curtainwall in the stair tower and numerous HVAC upgrades. Due to the fact the structure is over 30 years old and has endured abundant wear, the steel structure within the glass curtainwall had deteriorated from years of leaky windows and needed extensive work. The existing glass needed complete replacement to be compliant with energy efficiency guidelines set forth by FSU. The HVAC upgrades included the removal and replacement of existing roof top hot water boilers to comply with the energy standards.



The architectural team at Thrasher had to be mindful of several challenges while working on Hunt Haught Hall. The most important challenge was to avoid disrupting the everyday use of the facility. The team had to be fully aware of ingress and egress, safety concerns, as well as noise disruption during classes. Specific guidelines were developed and included into the bidding documents to allow a clear understanding of the expectations before bidding.

It was very important to FSU to keep the aesthetics of the building intact and not to change its looks too drastically. As seen below, Thrasher was able to make the upgrades without sacrificing the buildings original feel.

AB CONTRACTING HVAC Systems Upgrades

Client Contact:

Allen Bell, Owner 5521 Ohio River Rd. | Point Pleasant, WV 25550 304-674-0100

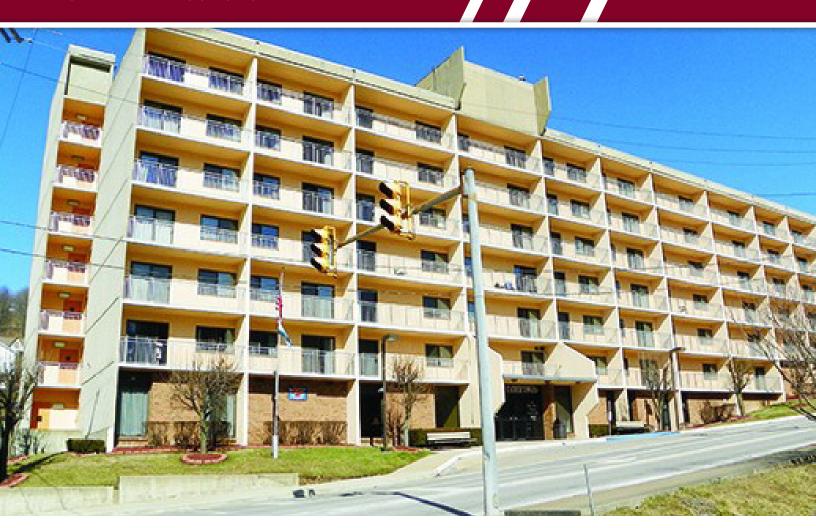
The Thrasher Group worked with AB Contracting to convert an existing 17 story office building (approximately 112,000 square feet) into a residential high rise apartment building including two floor of commercial office space. This project included the design of the heating, ventilating and air conditioning (HVAC) systems for the building. The buildings original heating and cooling system (hot water boilers and water cooled chillers) was abandoned and replaced with a variable refrigerant flow (VRF) system. New exhaust systems for dryers and toilets as well as a new outside air system for each apartment unit were included in the design.

To bring the building up to current code, a fire pump, new emergency generator and stair pressurization system were required.

The Thrasher Group worked closely with Appalachian Power to design a power distribution system to meet the requirements for separately metering each individual apartment unit.

To address water pressure concerns, two central domestic water heating plants (located at different levels) were utilized. This minimized the number of pressure reducing valves needed throughout the system.





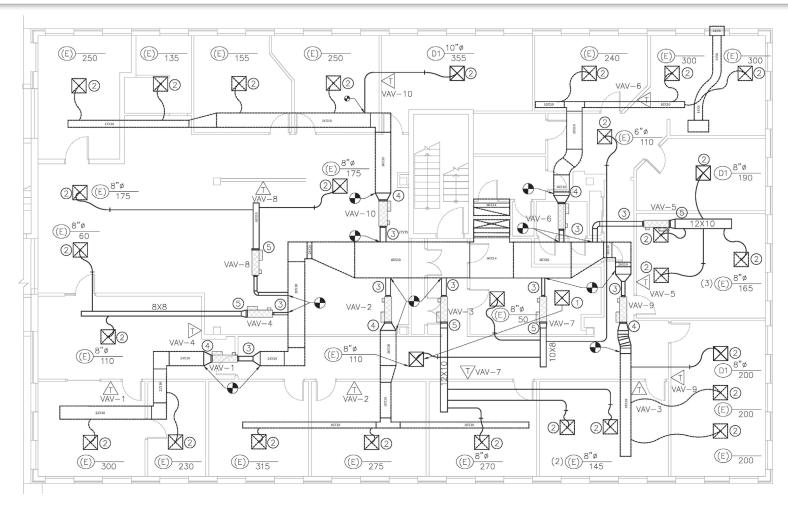


GRAFTON HOUSING AUTHORITY Elizabeth Cather Towers HVAC Renovation

Client Contact:

Mr. Gary Rowan, Project Manager 131 East Main Street Grafton, WV 26354 304-265-0629

Elizabeth Cather Tower is home to the Grafton Housing Authority offering affordable housing to the community with approximately 80,000 square feet. To better the quality of life of their tenants, the housing authority sought to complete an upgrade of the existing fan coil units that are in each living unit. Prior to demolition of the existing fan coil units, contractors were required to remove and replace all existing shutoff valves for each fan coil unit located on the first floor. After completing the valve replacement, the fan coil units were then removed in each living unit – 111 fan coil units in total. The work included the demolition the enclosure around each of the 111 fan coil units and removing of the fan coil units themselves. Then each unit was replaced with a new unit and a new enclosure was provided around each unit. Contractors were allotted a certain amount of workspace in each living unit because the units were still occupied by tenants.





BERKELEY COUNTY DEVELOPMENT AUTHORITY

HVAC Design

Client Contact:

Ms. Sandy Hamilton, Executive Director 300 Foxcroft Avenue, Suite 201 Martinsburg, WV 25401 304-267-4144 The Thrasher Group was hired by the Berkeley County Development Authority to solve high humidity issues in their office building. A variety of HVAC upgrades were needed to make this happen, with Thrasher's mechanical and electrical engineers providing design services. The team converted the constant air volume roof top unit system with zone and bypass dampers to a variable air volume (VAV) roof top unit system with VAV boxes having electric re-heat. This project is currently underway with anticipated completion of August 2021.





W. KENT CARPER JUSTICE AND PUBLIC SAFETY COMPLEX

HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler Upgrades

Client Contact:

W. Kent Carper Justice & Public Safety Complex 301 Virginia St. East | Charleston, WV 25301 304-357-0387

This project included renovations to the existing 62,400 SF building. These renovations included HVAC, Plumbing, Electrical, Fire Alarm, and Sprinkler system work. The mechanical system consisted of package VAV rooftop units with VAV box serving each zone. The challenging aspect for this building was dealing with the building's historical nature.



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

(Printed Name and Title) Craig Baker | Principal

(Address) 600 White Oaks Blvd. | Bridgeport, WV 26330

(Phone Number) / (Fax Number) 304-624-4108 | 304-624-7831

(Email address) cbaker@thethrashergroup.com

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

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

| The Thrasher Group, Inc. | |
|--|--|
| (Company) | |
| (Signature of Authorized Representative) | |
| Craig Baker Principal September 3, 2024 | |
| (Printed Name and Title of Authorized Representative) (Date) | |
| 304-624-4108 304-624-7831 | |
| (Phone Number) (Fax Number) | |
| cbaker@thethrashergroup.com | |

(Email Address)

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 exceed 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: The Thrasher Group, Inc. | |
|---|-------------------------|
| Authorized Signature: | Date: September 3, 2024 |
| State of West Virginia | |
| County of <u>Harrison</u> , to-wit: | |
| Taken, subscribed, and sworn to before me this <u>3</u> day of <u>September</u> | , 20 <u>24</u> . |
| My Commission expires July 7 , 20 <u>29</u> . | |
| AERINDEAL HEDREKUM SEAL NOTADY DUDLIC | Touch a le division |

SEAL HER OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Michele Underwood
243 Spence Drive, Clarksburg, WV 26301
My Commission Expires 07/07/2029

1 (Chile Curcumors

Purchasing Affidavit (Revised 01/19/2018)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CEOI 0603 ADJ2500000010

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

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

| | 1 |
|--|--|
| Addendum Numbers Received: (Check the box next to each addendum received) | ved) |
| ☐ Addendum No. 1 ☐ Addendum No. 2 ☐ Addendum No. 3 ☐ Addendum No. 4 ☐ Addendum No. 5 | ☐ Addendum No. 6 ☐ Addendum No. 7 ☐ Addendum No. 8 ☐ Addendum No. 9 ☐ Addendum No. 10 |
| I further understand that any verbal represent discussion held between Vendor's representa | t of addenda may be cause for rejection of this bidation made or assumed to be made during any oral tives and any state personnel is not binding. Only the specifications by an official addendum is |
| The Thrasher Group, Inc. Company Authorized Signature | |
| September 3, 2024 Date | |
| NOTE: This addendum acknowledgement sh | ould be submitted with the hid to expedite |

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

