



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

RECEIVED
03/24/21 11:08:33
WV PURCHASING DIVISION

March 24, 2021

Attn: Ms. Tara Lyle, Buyer
2019 Washington Street East
Charleston, WV 25305

*RE: WV Army National Guard CEOI ADJ21*08 Brushfork Armory HVAC Renovation Design*

Dear Ms. Lyle and Selection Committee Members:

The Brushfork Armory in Bluefield is in need of engineering and architectural services for HVAC renovations. With a variety of updates and renovations needed, as well as bidding assistance, cost estimating, and construction administration, the Armory will need a team of specialized 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 nearly 40 years. We have developed a strong portfolio of renovation and building improvement projects in that time, including numerous HVAC upgrades. We are well versed in the complexities of these projects and have the knowledge to design and execute this work within the dedicated budget and timeline set up by the West Virginia Army National Guard.

Additionally, Thrasher provides a full-service team all under one roof. We have a full suite of mechanical, electrical, and plumbing engineers and designers on staff who have a variety of experience with HVAC projects like this one. In addition to their expertise, Thrasher has specialists in-house for architecture, construction administration, construction estimating, energy efficient design, survey, and more. This team will be able to provide the full spectrum of services needed to ensure the Brushfork Armory HVAC systems meet code, work efficiently, and create a comfortable space for all who use it.

We appreciate the opportunity to share our qualifications with you and look forward to further discussing how The Thrasher Group can help the Army National Guard and improve the HVAC systems at the Brushfork Armory.


Sincerely,
The Thrasher Group, Inc.

Craig Baker, ALEP
Principal

DESIGNATED CONTACT



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)
Craig Baker, Principal

(Printed Name and Title)
600 White Oaks Blvd. | Bridgeport, WV 26330

(Address)
304-624-4108 | 304-624-7831

(Phone Number) / (Fax Number)
cbaker@thetrashergroup.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.

The Thrasher Group, Inc.

(Company)


(Authorized Signature) (Representative Name, Title)
Craig Baker, Principal

(Printed Name and Title of Authorized Representative)
03/16/2021

(Date)
304-624-4108 | 304-624-7831

(Phone Number) (Fax Number)

Revised 02/10/2021

PURCHASING AFFIDAVIT



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: The Thrasher Group, Inc.

Authorized Signature: [Signature] Date: 03/16/2021

State of West Virginia

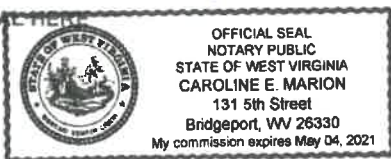
County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 16th day of March, 2021.

My Commission expires May 4 2021, 20

[Signature: Caroline E. Marion]

AFFIX SEAL



NOTARY PUBLIC

Purchasing Affidavit (Revised 01/19/2018)

ADDENDA ACKNOWLEDGMENT



ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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

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

Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

The Thrasher Group, Inc.

Company

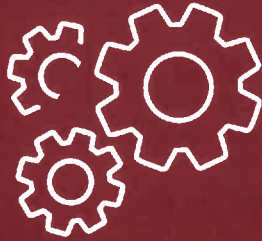

Authorized Signature

03/18/2021

Date

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

THE THRASHER GROUP OVERVIEW



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

Main Point of Contact:

Joe Sinclair, AIA, NCARB, LEED AP, CDT
Project Manager and Architect
JSinclair@thethrashergroup.com
Cell: 304-518-9304
Office: 304-343-7601



8

OFFICES

in five states:

West Virginia
Virginia
Pennsylvania
Ohio
Maryland



300+

EMPLOYEES

- 39** Licensed Professional Engineers
- 11** Licensed Professional Surveyors
- 8** Licensed Professional Architects
- 3** Licensed Professional Landscape Architects



37

YEARS

of delivering
successful
projects

Diverse services that grow communities.

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 outcomes you receive.

We understand your goals for the HVAC renovations needed at Brushfork Armory and will handle them in the following manner:

Goal 4.1 | 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. Our team of in-house experts will handle all outlined key design elements, including replacement and upgrade of HVAC equipment, energy efficiency considerations, and maintenance-friendly equipment.

Goal 4.2 | Utility Location

With one of the largest survey crews in the Mid-Atlantic region, 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 provide drawings and specifications of them as needed.

Goal 4.3 and 4.4 | 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 full-time cost estimator, Jim Decker, will work closely with the Army National Guard to ensure estimates are accurate and the project proceeds within budget. The Thrasher team 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 4.5 | 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 these firms 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.

Additionally, our construction services team always plays a major role in the Thrasher full-services package. We have a Construction Administrator on staff - Bill Ratcliffe - who will help oversee the work being done at the Brushfork Armory. Bill and the team have the competence you need to ensure your project is constructed correctly and functions as designed.

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 needed services at the Brushfork Armory. 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 final punch list inspection at project completion.

Thrasher will also develop a program to keep your team abreast of potential construction issues. We will prepare design repairs with the 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 any appropriate personnel as needed.

QUALITY CONTROL



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





Cost control

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.



Budgeting

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.

PROJECT EXPERIENCE

NORTH CENTRAL WV AIRPORT New Hangars

Client Contact:

Mr. Shawn Long, Deputy Director
2000 Aviation Way | Bridgeport, WV 26330
304-842-3400

The Thrasher Group is currently working with the North Central West Virginia Airport on the design and construction of two new hangars. This project included the design of the heating, ventilating and air conditioning (HVAC) systems for the hangars (44,000 square feet each) and support space (17,000 SF).

The aircraft hangars are heated and ventilated only. Heating is provided by natural gas infrared heaters. Summer ventilation (and code required outside air) is provided by roof mounted exhaust fans and associated intake air louvers. Winter ventilation (and code required outside air) is provided by a natural gas fired makeup air unit. Aircraft fuel tank venting is provided by ceiling hung utility set fans (with spark proof construction) with hose reel assembly to extend to fuel tanks. Large circulating fans are included to assist with maintaining air movement for comfort.

The support space is heated and cooled by a gas heat / electric cool roof top unit with ducted air distribution. Toilets and locker room are exhausted via a roof mounted exhaust fan. The electric/data room is cooled by a ductless mini-split system. Make up air is provide for the Owner provided air compressor via a roof mounted gravity intake hood. A horizontal gas furnace provides heat for the tool storage area.





HARDY COUNTY PUBLIC SERVICE DISTRICT New Office Building

Client Contact:

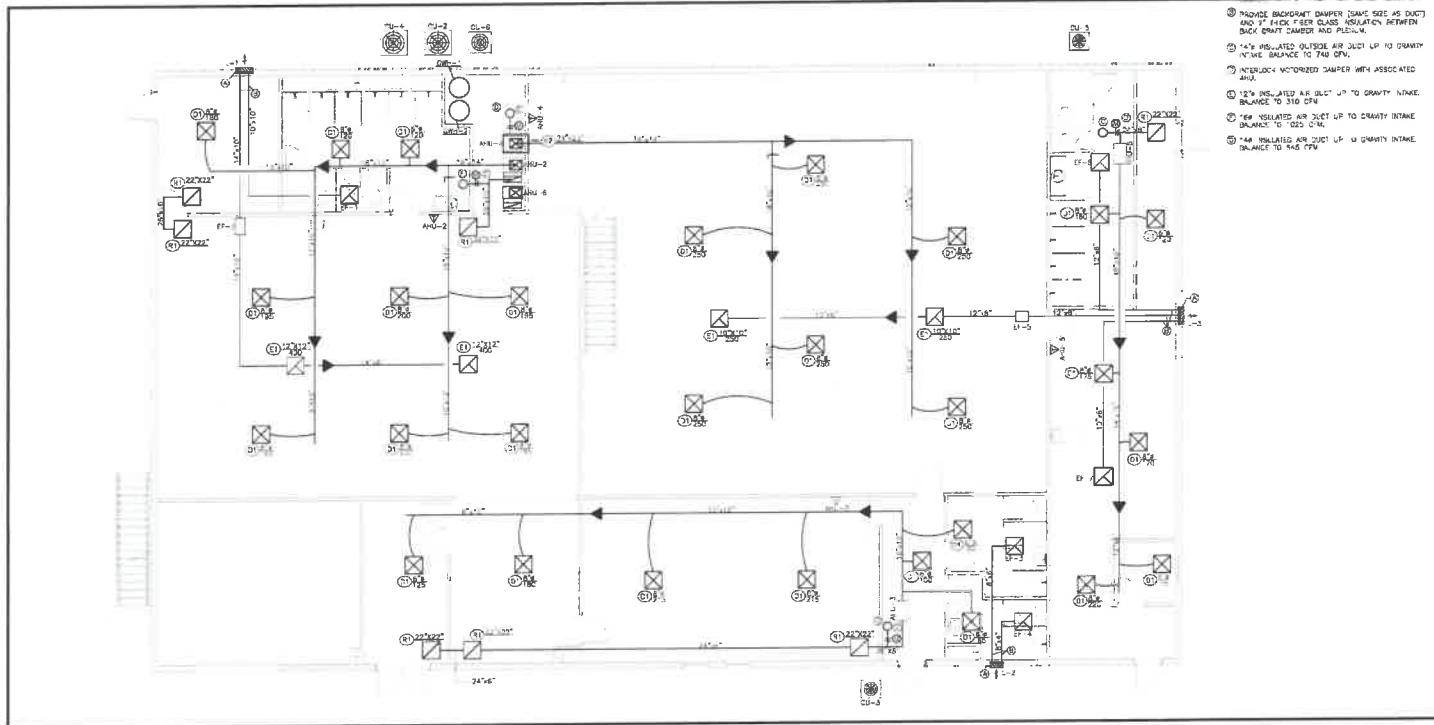
Mr. Logan Moyers, General Manager
2094 US 220 South | Moorefield, WV 26836
304-530-3048

Thrasher is designing a new office building for the Hardy County Public Service District. This project included the design of the heating, ventilating and air conditioning (HVAC) systems for a Maintenance Garage (4,060 SF) and Office area (1,855 SF).

The Maintenance Garage is heated and ventilated only. Heating is provided by natural gas unit heaters and ventilation is provided by wall mounted exhaust fans and associated intake air louvers. Maintenance Garage office is heated and cooled by a ductless mini-split heat pump system.

The Office area is heated and cooled by gas heat / electric cool split system with ducted air distribution. Toilets are exhausted via a ceiling mounted exhaust fan ducted to the outside.

PROJECT EXPERIENCE



GREENBRIER COUNTY SCHOOLS

Greenbrier East High School
Football Building

Client Contact:
Mr. George Brooks, Director of Maintenance
63 Church St | Lewisburg, WV 24901
304-647-6461

This project included the design of the heating, ventilating and air conditioning (HVAC) systems for locker rooms, weight room and offices (8,435 SF with 1,792 SF mezzanine).

Spaces are heated and cooled by gas heat / electric cool split systems with ducted air distribution. Spaces are zoned to allow similar spaces to be served from the same system. Toilets and locker rooms are exhausted via ceiling mounted exhaust fans ducted to the outside.



GRAFTON HOUSING AUTHORITY Elizabeth Cather Towers HVAC Renovation

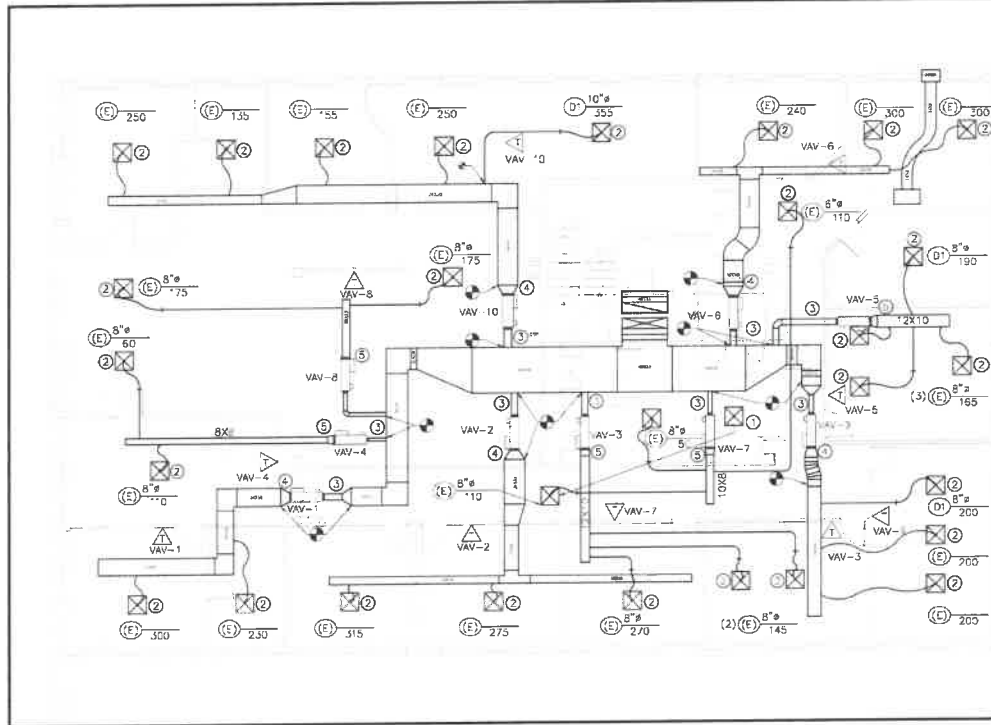
Client Contact:

Mr. Frank Mayle, Jr., Executive Director
131 East Main Street | Grafton, WV 26354
304-265-1183

- 111 fan coil units in total. The work included the demolition of 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.

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

PROJECT EXPERIENCE



PLAN NOTES:

- ① RELOCATE DIFFUSER AS SHOWN BY ARROW.
- ② BALANCE EXISTING DIFFUSER TO CFM NOTED.
- ③ VAV SUPPLY DUCT SHALL BE A MINIMUM OF 24" LONG AND MATCH INLET DIAMETER.
- ④ PROVIDE TRANSITION FROM VAV OUTLET SIZE TO EXISTING DUCT SIZE.
- ⑤ PROVIDE TRANSITION FROM VAV OUTLET SIZE TO SIZE NOTED.

BERKELEY COUNTY DEVELOPMENT AUTHORITY HVAC Upgrades

Client Contact:

Ms. Sandy Hamilton, Executive Director
300 Foxcroft Avenue, Suite 201
Martinsburg, WV 25401
304-267-4144

The Thrasher Group is working with 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.



ACCESS HEALTH Former Rite Aide Conversion

Client Contact:
Mr. Earl Hicks
252 Rural Acres Dr | Beckley, WV 25801
304-252-8555

Thrasher is providing multi-disciplinary services to Access Health for the conversion of a former Rite Aide facility in Glen Daniel, West Virginia. The building is being transformed into a health clinic with community room to better serve the area. Our team is providing a variety of services for this project, with mechanical, electrical, and plumbing engineering as an important part of the equation. Our MEP staff have designed a variable volume roof top unit to provide for multiple zones of temperature control in the building. The smaller equipment size being used also provides cost efficiency for the project, meeting key budgetary constraints.

PROJECT EXPERIENCE

WIRT COUNTY SCHOOLS

Roof Replacement and HVAC Upgrades

Client Contact:

Ms. Maryjane Pope-Albin, Superintendent
389 Mulberry Street | Elizabeth, WV 26143
304-275-4279

Thrasher was hired by the Wirt County Board of Education to re-roof both the Wirt County High School and Middle/Primary School. This project included the replacement of all roofs 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. This project is the combination of two SBA funded projects, a 2014 MIP Grant, and a 2015 Needs Grant.



KEY PERSONNEL



WV ARMY NATIONAL GUARD

Craig Baker, ALEP
Principal

Joe Sinclair, AIA, NCARB,
LEED AP, CDT
Project Manager and Architect

Brian Hensley
Electrical Engineer

Ken Smith, PE
Mechanical Engineer

Duane Boyle
Plumbing Designer

Fernanda Delduque
Staff Engineer

Jim Decker, MBA
Construction Estimator

Bill Ratcliffe, REFP
Construction Administrator

Survey Services

Construction Services

Environmental Services

CRAIG BAKER, ALEP

Principal



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 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

Role: Principal

- > Harrison County, WV

Taylor County Courthouse Annex 2 HVAC Improvements

Role: Principal

- > Taylor County, WV

Belington Elementary School HVAC Upgrades

Role: Principal

- > Barbour County, WV

Fairmont State University Hunt Haught Hall Renovations and HVAC Upgrades

Role: Principal

- > Marion County, WV

Roane County Schools New HVAC Cooling Towers

Role: Principal

- > Roane County, WV

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

Role: Principal

- > Wirt County, WV

Grafton Housing Authority HVAC Renovations

Role: Principal

- > Taylor County, WV

Greenbrier East High School Football Building and HVAC

Role: Principal

- > Greenbrier County, WV

JOE SINCLAIR, AIA, NCARB, LEED AP, CDT

Project Manager and Architect



Ryan Joe Sinclair, AIA, NCARB brings 15 years of architectural experience in all phases of design ranging from commercial renovations, additions, and new construction to historic preservation and multi- and single-family residential projects. Joe's resume is built with architectural experience from Savannah, GA; Atlanta, GA; Charleston, WV; and North Central West Virginia. Joe joined the Thrasher team in 2017.

Joe is an Iraq War Veteran and former member of the West Virginia Army National Guard where he served as a Combat Engineer and Squad Leader. In addition to working full-time as an Architect at Thrasher, Joe serves as an Adjunct Professor in the Construction Management program at BridgeValley Community & Technical College in South Charleston, WV. Joe's expertise lies in project design, management, production, and delivery.

Education

Master of Architecture,
Savannah College of Art &
Design

Bachelor of Science,
Architectural Engineering
Fairmont State University

Registrations

Professional Architect:
> West Virginia
> Virginia

Affiliations

- > NCARB Certificate (#69740)
- > LEED Accredited
Professional, Building Design
& Construction - GBCI#: 10052110
- > Construction Documents
Technologist (CDT) -
Construction Specifications
Institute (CSI)
- > Member American Institute
of Architects - West Virginia
Chapter
- > Member - United States
Green Building Council
(USGBC) - West Virginia
Chapter
- > AIA West Virginia's AIA
Safety Assessment Program
Training

Experience

WV Division of Weights and Measures HVAC and Envelope Retrofit

Role: Project Architect
> Kanawha County, WV

Harrison County Commission Courthouse HVAC Replacement

Role: Project Manager
> Harrison County, WV

Kanawha Valley Senior Services Tiskelwah School Attic Energy Retrofit

Role: Project Architect
> Kanawha County, WV

West Virginia Turnpike Rest Area, Exit 69

Role: Project Architect
> Mercer County, WV

G.C. Murphy Building Facility Assessment and Cost Estimate

Role: Project Architect and
Project Manager
> Nicholas County, WV

Yeager Airport

HVAC Replacement

Role: Project Manager
> Kanawha County, WV

Picatinny Arsenal Military Housing

Role: Project Architect
> Morris County, NJ

Reception Station Barracks

Role: Project Architect
> Muscogee County, GA

Carlisle Barracks Military Housing and Community Center

Role: Project Architect
> Cumberland County, PA

Veterans Affairs National Cemetery Roof Replacement

Role: Project Architect and
Project Manager
> Taylor County, WV

JOE SINCLAIR, AIA, NCARB, LEED AP, CDT

Project Manager and Architect



of West Virginia.

No. **4244**

*This Certifies that Ryan Joseph Sinclair of Atlanta
in the State of Georgia, having successfully passed an examination
before the Board of Architects of the State of West Virginia, and being
otherwise qualified, is hereby authorized to practice Architecture in all its
branches in the State of West Virginia.*



*Witness the signatures of the President and Secretary of the Board of
Architects of West Virginia, and the seal of said Board, this 14th
day of May 20 10*

Williamson President

KEN SMITH, PE

Mechanical Engineer



Education

Bachelor of Science,
Mechanical Engineering
West Virginia University

Registrations

Professional Engineer:

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

Affiliations

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

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 has 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

Benedum Airport Authority New Aircraft Hangars HVAC

Role: Mechanical Engineer

- > Harrison County, WV

Berkeley County Development Authority

HVAC Upgrades

Role: Project Manager and
Mechanical Engineer

- > Berkeley County, WV

Yeager Airport

HVAC Replacement

Role: Project Engineer

- > Kanawha County, WV

City of Ripley Wastewater Treatment Plant HVAC Design

Role: Mechanical Engineer

- > Jackson County, WV

Access Health/Rite Aide

Conversion and HVAC Upgrade

Role: Project Manager

- > Raleigh County, WV

Hardy County Public Service District Office Building HVAC

Role: Mechanical Engineer

- > Hardy County, WV

Glenville State College HVAC Repair Design

Role: Mechanical Engineer

- > Gilmer County, WV

Town of Kermit Water Treatment Plant

Rehabilitation HVAC Designer

Role: Project Engineer

- > Mingo County, WV

Paden City Municipal Water Works Emergency Water Treatment Plant HVAC Upgrades

Role: Mechanical Engineer

- > Tyler/Wetzel Counties, WV

KEN SMITH, PE

Mechanical Engineer

Licensure Verification

Search: Details

Name: KENNETH E. SMITH

WV Professional Engineer: PE License Number: 0116/Z

PE License Status: Active

PE Issue Date: 07/16/1992

PE Expiration Date: 12/31/2022

Continuing Education Claim: Qualifying Hours from Last Renewal or Reinstatement: 52.50

Carryover Hours for Next Renewal: 15.00

Last Renewal or Reinstatement Date*: 12/17/2020

WV Engineer Intern: EI Certification Number:

EI Issue Date:

Primary Address of Record: 2444 KIRBY ROAD
MILTON, WV 25541

Primary Employer of Record: THE THRASHER GROUP, INC.
300 ASSOCIATION DRIVE
CHARLESTON, WV 25311

- This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

BRIAN HENSLEY

Electrical Engineer



Education

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

Certifications and Trainings

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

Brian Hensley is an Electrical Engineer 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, Brian 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 Brian a valued member of the Thrasher team.

Experience

Chapmanville Towers

Senior Housing Renovation

Role: Electrical Engineer

- > Logan County, WV

Carl D Perkins

Apartments Renovations

Role: Electrical Engineer

- > Pike County, KY

Parkland Place

Senior Housing Renovation

Role: Electrical Engineer

- > Wood County, WV

Hatfield-McCoy Regional

Recreation Authority

Ashland Resort

Role: Electrical Engineer

- > McDowell County, WV

Dominion Energy Mount

Storm Office Building

Role: Electrical Engineer

- > Grant County, WV

Boy Scouts of America

Steve A. Antoline

Conservation Center

Role: Electrical Engineer

- > Fayette County, WV

Boy Scouts of America

John Tickle Training Center

Role: Electrical Engineer

- > Fayette County, WV

Village of Mingo Junction

Sanitary Sewer Upgrades

Role: Electrical Engineer

- > Jefferson County, OH

DUANE BOYLE

Plumbing Designer



Education

Associate Degree,
Mechanical Design
Ashland Regional Technology
Center

Certifications

> Mechanical Drafting,
AutoCAD R13&14

Affiliations

> Associated Builders and
Contractors, Inc.

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

Genesis Engineering

Role: Senior Plumbing
Designer

> Williamson County, TN

Jordan & Skala

Role: Senior Plumbing
Designer II

> Gwinnett County, GA

Power Management

Role: Senior Mechanical
Designer

> Davidson County, TN

Olert Engineering

Role: Senior Mechanical
Designer

> Davidson County, TN

Staggs and Fisher

Role: Mechanical Designer,
Plumbing and HVAC

> Fayette County, WV

FERNANDA DELDUQUE

Staff Engineer



Fernanda Delduque is a highly goal-oriented Staff Engineer who serves Thrasher's Buildings and Facilities and Water Resources Markets. One of her primary responsibilities for these teams is providing mechanical, electrical, and plumbing (MEP) engineering assistance. Her MEP knowledge is continuously expanding, with recent experience including HVAC systems, wiring layouts for a welding lab, and electrical designs and calculations for water pump stations.

Additionally, Fernanda works closely with our Water Resources team to coordinate and execute a variety of tasks. Some of these responsibilities include cost estimation, securing funding sources, preparing design plans and quantity assessments, and composing preliminary engineering reports and specifications.

Education

Bachelor of Science
Mechanical Engineering
West Virginia Institute of
Technology

Trainings

- > CRP
- > First Aid
- > OSHA 10

Experience

Benedum Airport Authority New Aircraft Hangars HVAC

Role: Staff Engineer
> Harrison County, WV

Access Health/Rite Aide Conversion and HVAC Upgrade

Role: Staff Engineer
> Raleigh County, WV

Chapmanville Towers Senior Housing Renovation

Role: Staff Engineer
> Logan County, WV

Greenbrier East High School Football Building and HVAC Design

Role: Staff Engineer
> Greenbrier County, WV

Hardy County Public Service District Office Building HVAC

Role: Staff Engineer
> Hardy County, WV

Parkland Place Senior Housing Renovation

Role: Staff Engineer
> Wood County, WV

Boy Scouts of America Steve A. Antoline Conservation Center

Role: Staff Engineer
> Fayette County, WV

Boy Scouts of America John Tickle Training Center

Role: Staff Engineer
> Fayette County, WV

Dominion Energy Mount Storm Office Building

Role: Staff Engineer
> Grant County, WV

Town of Kermit Emergency FEMA Generator Installation

Role: Staff Engineer
> Mingo County, WV

JIM DECKER, MBA

Construction Estimator



Education

Master of Business Administration,
Project Management Emphasis
Fairmont State University

Bachelor of Science,
Civil Engineering
Fairmont State University

Associates Degree,
Mechanical Engineering
Fairmont State University

Registrations

General Contractor:
> West Virginia

Affiliations

> Leadership Marion County
> Leadership Fairmont State University

Jim Decker, MBA brings nearly 30 years of experience in construction estimating and management for the private and public sectors. He provides services with inspections, site monitoring, cost control, schedules, contract administration, payment processing, shop and coordination drawings, change orders and project reports.

His role as a construction estimator allows for clients to be able to recognize a true price when it comes to their projects. Jim is also a Licensed General Contractor in the State of West Virginia. As a General Contractor he is able to oversee the day-to-day functions of the construction site.

Previously, Jim was the facilities director at a local educational institution for 10 years. Jim relates well with his clients because he approaches the situation from both a consultant and client perspective.

Experience

Harrison County Commission Courthouse HVAC Replacement

Role: Construction Estimator
> Harrison County, WV

Upshur County Development Authority Innovation Center

Role: Construction Estimator
> Upshur County, WV

Benedum Airport Authority New Aircraft Hangars HVAC

Role: Construction Estimator
> Harrison County, WV

Fairmont State University Wallman Hall Roof Renewal

Role: Construction Estimator
> Marion County, WV

Dominion Energy Mount Storm Office Building

Role: Construction Estimator
> Grant County, WV

Grafton Housing Authority Elizabeth Cather Towers HVAC and Roof Replacement

Role: Construction Estimator
> Taylor County, WV

Hardy County Public Service District Office Building HVAC

Role: Construction Estimator
> Hardy County, WV

Boy Scouts of America Steve A. Antoline Conservation Center

Role: Construction Estimator
> Fayette County, WV

Boy Scouts of America John Tickle Training Center

Role: Construction Estimator
> Fayette County, WV

Fairmont State University Turley Center Roof Renewal

Role: Construction Estimator
> Marion County, WV

BILL RATCLIFFE, REFP

Construction Administrator



Bill Ratcliffe, REFP has over two decades of experience involved in the completion of successful construction projects. He has spent the last 15 years of his career working as a construction contract administrator on public and private projects, ensuring the successful completion of projects. Bill also spent 14 years of his career working for the West Virginia School Building Authority (SBA) where he worked with architects during the planning, design, & construction phases on hundreds of projects.

Education

Regents Degree,
West Virginia State University

Registrations

Recognized Educational Facility
Planner

Bill's strong relationships with countless regulatory and building entities combined with his hands-on experience make him an excellent project manager and an invaluable member of the Thrasher team.

Experience

Harrison County Commission Courthouse HVAC Replacement

Role: Construction
Administrator
> Harrison County, WV

City of Beckley New Police Station

Role: Construction
Administrator
> Raleigh County, WV

City of Beckley New Fire Station #3

Role: Construction
Administrator
> Raleigh County, WV

Baker Heights New Fire Station

Role: Construction
Administrator
> Berkeley County, WV

Wirt County High School New Roof, HVAC, and Fire Alarm Replacements

Role: Construction Administrator
> Wirt County, WV

Huntington Tri-State Airport Stair Tower / Elevator Building for ADA Access

Role: Construction Administrator
> Wayne County, WV

Boy Scouts of America JW and Hazel Ruby Welcome Center

Role: Construction Estimator
> Fayette County, WV

WVU Robert C. Byrd Testing Center Renovations, Charleston Area Medical Center

Role: Construction Administrator
> Kanawha County, WV

REFERENCES



Berkeley County Development Authority

Ms. Sandy Hamilton, Executive Director
300 Foxcroft Avenue, Suite 201
Martinsburg, WV 25401
304-267-4144

Wirt County Schools

Ms. Maryjane Pope-Albin, Superintendent
389 Mulberry Street
Elizabeth, WV 26143
304-275-4279

McDowell County Schools

Mr. Will Chapman, Director of Facilities
30 Central Avenue
Welch, WV 24801
304-436-6142