

THRASHER

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WV PURCHASING
DIVISION



WV PURCHASING DIVISION

Eleanor RC HVAC Renovation Design

Submitted by:
The Thrasher Group, Inc.
February 6, 2020



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

February 6, 2020

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

RE: WV Purchasing Division Eleanor RC HVAC Renovation Design

Dear Ms. Lyle and Selection Committee Members:

The Eleanor Armed Forces Readiness Center is in need of engineering and architectural services for HVAC renovations. With updates, repairs, and replacements needed to ensure all mechanical systems meet current building codes, the Readiness Center will need a team of professionals in order to see success. The Thrasher Group is the right firm for the job.

Thrasher provides a full-service team all under one roof. Our proposed engineer for the project, Ken Smith, is a licensed professional engineer who is an expert in mechanical, electrical, and plumbing (MEP) needs. He is supported by an additional engineering specialist, an architect, a construction estimator, and a construction administrator. This team will be able to provide the full spectrum of services needed to ensure the Eleanor Armed Forces Readiness Center HVAC systems meet code, work efficiently, and create a comfortable space for all who use it.


Not only do we have the expertise to make this project a success, but the availability and drive to meet your needs in a timely and efficient manner. Thrasher's Charleston office is located just a half hour from the Readiness Center. Our team will be able to be on site quickly and often to investigate the problems you're experiencing and oversee the implementation of our designs.

We appreciate the opportunity to share our qualifications with you and look forward to further discussing how The Thrasher Group can help improve the HVAC systems at the Eleanor Armed Forces Readiness Center.

Sincerely,
The Thrasher Group, Inc.

Craig Baker, ALEP
Architecture Division Leader

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, Architecture Division Leader

(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)
 Architecture Division Leader

(Authorized Signature) (Representative Name, Title)
Craig Baker, Architecture Division Leader

(Printed Name and Title of Authorized Representative)
2/4/2020

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

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(f), 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.

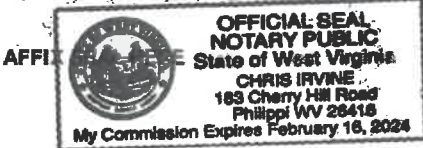
Authorized Signature: [Signature] Date: 2/4/2020

State of WEST VIRGINIA

County of HARRISBURG, to-wit:

Taken, subscribed, and sworn to before me this 4th day of FEBRUARY, 2020

My Commission expires 2/16/2024 2024



NOTARY PUBLIC [Signature] Purchasing Affidavit (Revised 01/19/2018)

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CEOI ADJ20000000002

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

Company _____

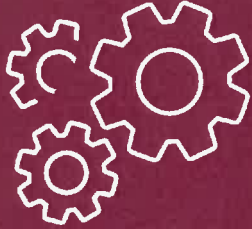
 _____

Authorized Signature

2/4/2020 _____

Date

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



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

Main Point of Contact:

Craig Baker, ALEP
 Architecture Division Manager
 cbaker@thethrashergroup.com
 Cell: 304-669-3022
 Office: 304-326-6388



8

OFFICES

in six states:

- West Virginia
- Virginia
- Pennsylvania
- Ohio
- Maryland
- Kentucky



500

EMPLOYEES

- 47** Licensed Professional Engineers
- 20** Licensed Professional Surveyors
- 6** Licensed Professional Architects
- 3** Licensed Professional Landscape Architects



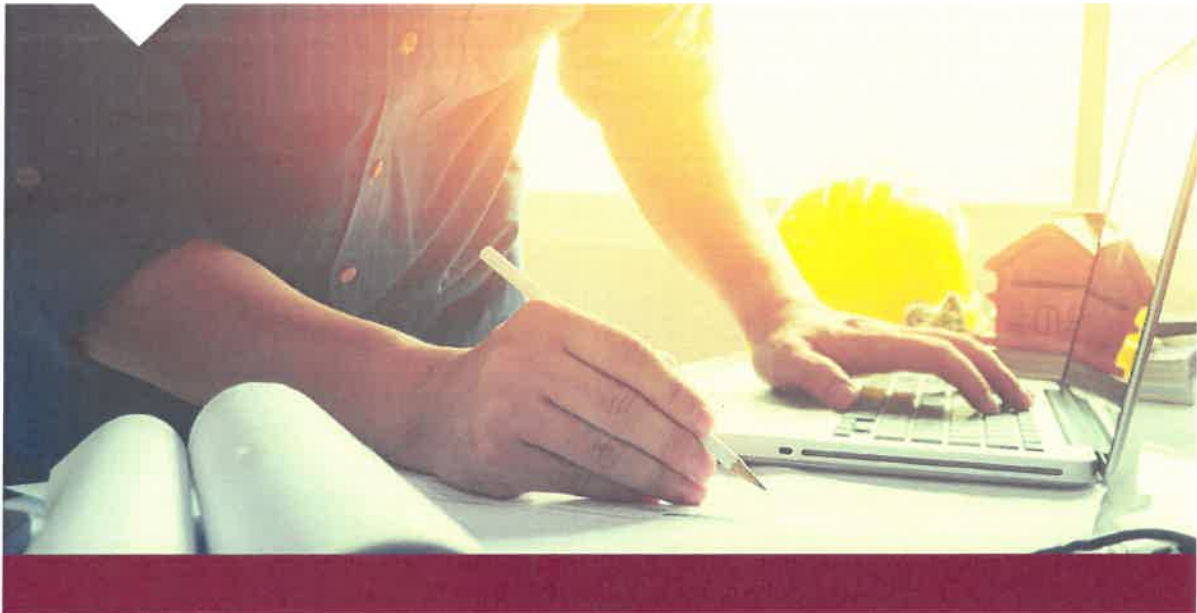
36

YEARS

of delivering successful projects

Diverse services that grow communities.

THRASHER'S GOT IT.



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 and will handle them in the following manner:

GOAL/OBJECTIVE 1

The Thrasher Group will provide complete design services for this project, with all engineering and architectural disciplines provided in-house. Our team is capable of updating, repairing, or replacing your system as needed, with attention to the air circulation, HVAC control system, and building codes.

GOAL/OBJECTIVE 2

Drawings and specifications will be submitted at 35%, 65%, 95%, and 100%. Additionally, our in-house cost estimator will provide estimating services with each submission.

GOAL/OBJECTIVE 3

Construction Administration always plays a major role in the Thrasher full-services package. This is a piece that we feel is important to offer for every project, and we consistently bid more projects than any other firm in the state. Thrasher has the competent professionals your team needs to ensure your project is constructed correctly and functions as designed.

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 and meeting the West Virginia Army National Guard's needs. As the design progresses, our construction estimator will provide a construction cost estimate for each phase to ensure the project is staying within budget.

General steps as outlined in the EOI for project management is 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 Eleanor Armed Forces Readiness Center. 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 - Cost Estimates

Our project team will provide itemized cost estimates at the following stages: 35%, 65%, 95%, and 100%..

Step 6 - 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 7 - 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 8 - 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.

Communication throughout any project is a primary key to success. To that end, Thrasher will begin communication with the WV Army National Guard 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, Joe Sinclair, will discuss preferred methods of communication with the National Guard'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, Joe will again meet with the National Guard 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 National Guard, 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 National Guard. 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 WV Army National Guard construction representative on a weekly basis.

Scheduling:

Thrasher realizes the importance of establishing and maintaining project schedules. Time means money and making sure we help you spend your money wisely is our number one goal. Because of this, our team puts an emphasis on ensuring project timetables are met and communication is upheld throughout the process.

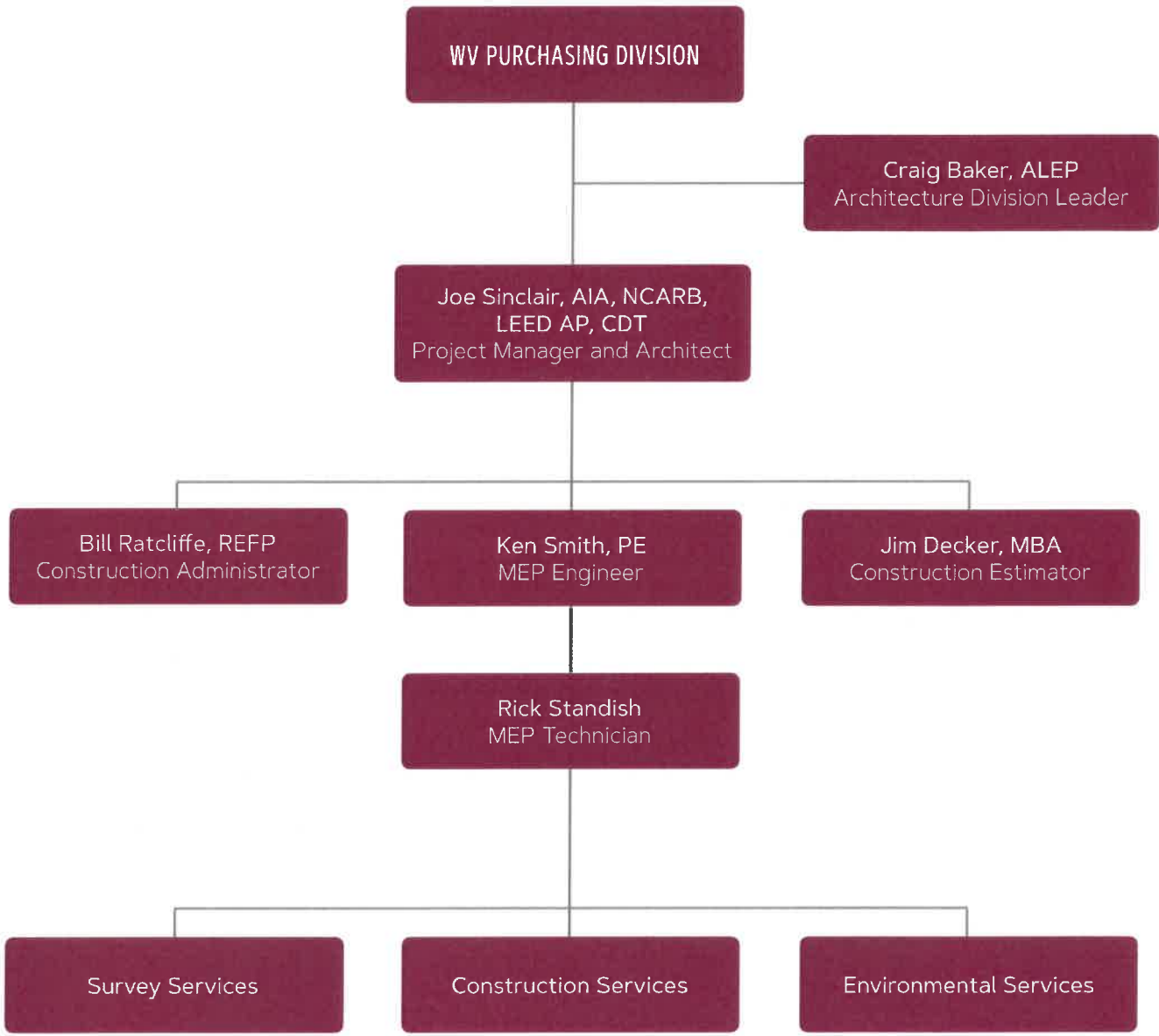
To accomplish these goals, Thrasher utilizes scheduling to track every stage of a project - from design and bidding through construction completion. We also require contractors working on our projects to regularly update their project schedules and give a detailed progress report at each job meeting, again focusing on the communication component of scheduling. This helps to ensure all parties are informed and aware of potential delays. Keeping our owners up to speed with progress is always our priority and ensures occupancy and owner supplied equipment are scheduled accordingly.

Budgeting:

Construction estimating and budgeting is the most important part 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.





Architecture Division Leader



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 Architectural Division, 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 HVAC Renovations

Role: Principal
> Marion 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

Project Manager and Architect



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

Joe 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.

Experience

WV Division of Weights and Measures HVAC & 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

Design of the Beech Fork Lodge and Conference Center

Role: Project Architect
> Wayne 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 Manager
> Nicholas 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 Manager
> Taylor County, WV

Project Manager and Architect

The West Virginia Board of Architects

certifies that

RYAN JOSEPH SINCLAIR

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

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

Certificate Number [REDACTED]

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



A handwritten signature in cursive script, reading "Emily Papadopoulos", written on a light-colored rectangular background.

Board Administrator

MEP Engineer



Ken Smith 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.

Education

Bachelor of Science,
Mechanical Engineering
West Virginia University

Registrations

Professional Engineer:
> West Virginia
> Virginia
> Ohio

Experience

Ventilation System – Welding Lab Advanced Technological Center

Role: Project Manager and Designer
> Marion County, WV

City of Ripley Wastewater Treatment Plant HVAC Design

Role: Mechanical Engineer
> Jackson County, WV

Benedum Airport Authority New Aircraft Hangars HVAC Designer

Role: Mechanical Engineer
> Harrison County, WV

Town of Kermit Water Treatment Plant Rehabilitation HVAC Designer

Role: Project Engineer
> Mingo County, WV

Hardy County Public Service District Office Building HVAC Designer

Role: Project Engineer
> Hardy County, WV

Paden City Municipal Water Works Emergency Water Treatment Plant HVAC Upgrades

Role: Mechanical Engineer
> Tyler/Wetzel Counties, WV

MEP Engineer

West Virginia State Board of Registration for Professional Engineers *Licensure Verification*

Search: Details

Name: KENNETH E. SMITH

WV Professional Engineer: PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 07/16/1992

PE Expiration Date: 12/31/2020

Continuing Education Claim: **Qualifying Hours from Last Renewal or Reinstatement:** 56.00

Carryover Hours for Next Renewal: 15.00

Last Renewal or Reinstatement Date*: 12/31/2018

WV Engineer Intern: **EI Certification Number:**

EI Issue Date:

Primary Address of Record: [REDACTED]

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.

This data was retrieved on 8/19/2019.

MEP Technician



Rick Standish is a successful mechanical, electrical, and plumbing (MEP) Engineering Technician in Thrasher's Utilities Division. He has over 45 years of knowledge in the industry and accumulated an impressive background of project experience. His responsibilities include cultivating client relationships, delivering quality work on time and within budget. Rick is proficient in HVAC systems, electrical load calculations, plumbing flow calculations, MEP layouts, fire alarm systems, shop drawing review, and field inspections.

Education

AutoCAD Program
West Virginia State University

Experience

**Pea Ridge Public Service
District HVAC, Plumbing, and
Electrical Design**

Role: Engineering Technician
> Cabell County, WV

**Town of Sophia Wastewater
Treatment Plant HVAC,
Plumbing, and Electrical
Design**

Role: Engineering Technician
> Raleigh County, WV

**Greenbrier County Public
Service District #2 HVAC,
Plumbing, and Electrical
Design**

Role: Engineering Technician
> Greenbrier County, WV

**City of Clarksburg
Wastewater Treatment
Plant HVAC, Plumbing, and
Electrical Design**

Role: Engineering Technician
> Harrison County, WV

**Malden Public Service
District HVAC, Plumbing, and
Electrical Designer**

Role: Engineering Technician
> Kanawha County, WV

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

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.

Affiliations

- > Recognized Educational Facility Planner (REFP)

Experience

Central WV Regional Airport Authority Yeager Terminal Security Enhancements

Role: Construction Administrator

- > Kanawha County, WV

Jefferson County Convention and Visitors Bureau Addition and Renovations

Role: Construction Administrator

- > Jefferson County, WV

Doddridge County Commission Courthouse Renovations

Role: Construction Administrator

- > Doddridge County, WV

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

Role: Construction Administrator

- > Wayne County, WV

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

Role: Construction Administrator

- > Kanawha County, WV

Camden-on-Gauley Medical Center Summersville Clinic

Role: Construction Administration

- > Nicholas County, WV

WV Public Service Commission Façade Replacement

Role: Construction Administrator

- > Kanawha County, WV

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

Romney Public Works Building New Facility

Role: Construction Estimator
> Hampshire County, WV

Hampton Inn

Role: Construction Estimator
> Lewis County, WV

White Oaks Business Park Development

Role: Construction Estimator
> Harrison County, WV

Dominion Goshen Road New Facility

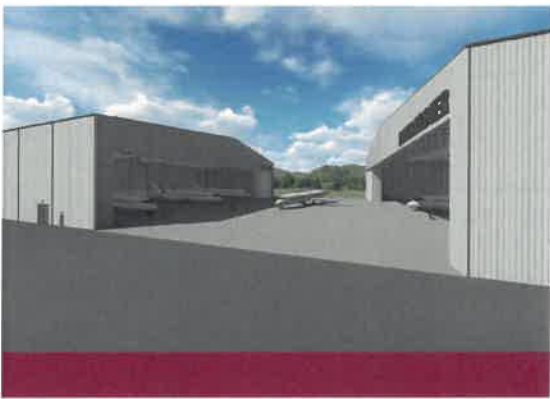
Role: Construction Estimator
> Monongalia County, WV

Dominion Natrium Plant Processing Facility Additions

Role: Construction Estimator
> Monongalia County, WV

MVA Shinnston Clinic Renovations

Role: Construction Estimator
> Tucker County, WV



North Central West Virginia Airport New Hangars

Reference:

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 (6,000 SF and 11,000 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

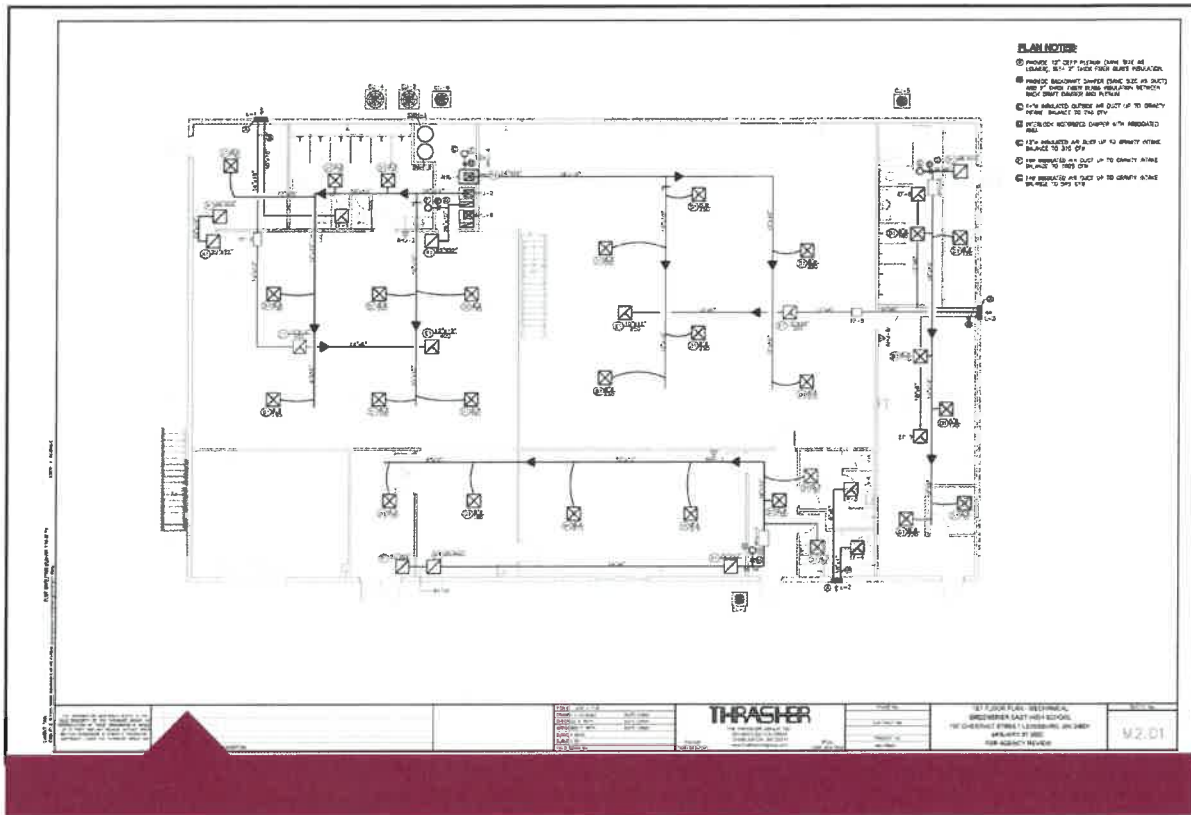
Reference:

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.



Greenbrier County High School Football Building

Reference:

Mr. George Brooks, Director of Maintenance
63 Church St | Lewisburg, WV 24901
304-647-6461
gbrooks@k12.wv.us

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 HVAC Renovation

Reference:

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

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 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.



Harrison County Courthouse Renovations

Reference:

Ron Watson, Commission President

301 West Main Street | Clarksburg, WV 26301

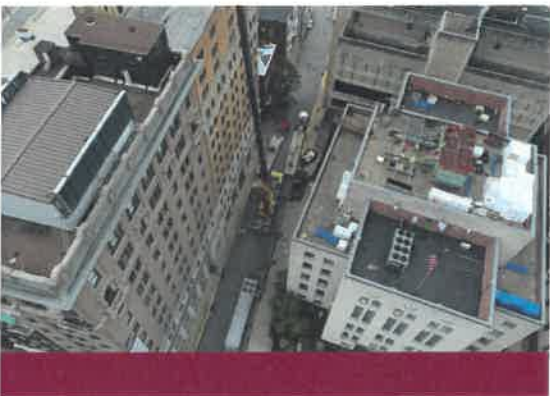
304-624-8500

Thrasher worked with the Harrison County Commission at the County Courthouse to upgrade their sprinkler system to meet the state fire code. Thrasher teamed up with Harper Engineering to get floors 2-6 and attic space designed for a new sprinkler system.



Thrasher worked with the County Commission on this project through a Courthouse Facilities Improvement Grant. Our team provided a phasing plan to the County Commission on how much they could afford each calendar year. Phase 1 of the job consisted of as built plans for the 2nd floor and sprinkler design.

The work also included a new standpipe, backflow preventer and all sprinkler lines and heads needed to cover 2nd floor area per design. Demo and patching was also required to bring the new system into the old facility.



The background of the image is a complex, abstract geometric pattern. It consists of numerous overlapping, semi-transparent wireframe shapes, primarily rectangular and trapezoidal in form. These shapes are drawn with thin, light gray lines and are arranged in a way that creates a sense of depth and movement, as if they are floating or stacked in a three-dimensional space. The overall effect is a dense, layered composition of geometric forms.

THRASHER