



Expression of Interest for Architectural Services  
For  
**Building and Hanger Space Expansion  
West Virginia Army National Guard  
Fixed Wing Army Aviation Training Site**

Bridgeport, West Virginia  
RFQ # DEFK11009  
August 17, 2010

**THRASHER**  
ENGINEERING

**30 COLUMBIA BLVD • CLARKSBURG, WV 26301**

TEL: 304.624.4108 FAX: 304.624.7831 EMAIL: [thrasher@thrashereng.com](mailto:thrasher@thrashereng.com)

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PURCHASING DIVISION  
STATE OF WV

August 12, 2010

West Virginia Army National Guard  
Division of Engineering and Facilities  
c/o West Virginia Department of Administration  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 253085

**RE: Expression of Interest – RFQ # DEFK11009**  
**Building and Hanger Space Expansion – Fixed Wing Training Site – Bridgeport, WV**

To the Members of the Selection Committee:

Thrasher Engineering, Inc. greatly appreciates the opportunity to state our expression of interest and present our qualifications to provide architectural services to the West Virginia Army National Guard for Building and Hanger Space Expansion at the Bridgeport Fixed Wing Training Site. We believe our architectural and engineering expertise and dedication to quality service will be beneficial to the West Virginia Army National Guard's improvement and expansion projects.

Our qualifications meet and exceed the criteria for selection of the architectural / engineering firm for this project. In summary, we offer the following reasons why:

- ❑ **Depth and Variety of Staff Disciplines:** From our Clarksburg, West Virginia location alone, Thrasher Engineering provides a work force of over 120 employees, with disciplines including engineering, architecture, survey, construction management and materials testing. Only Mechanical – Electrical – Plumbing engineering for this project will require the services of a sub-consultant.
  
- ❑ **Experience in the Design and Construction of Hanger Facilities and Building Renovations/ Additions:** As the engineering firm of record for the North Central West Virginia Airport and the Mid Atlantic Aerospace Complex, Thrasher Engineering, Inc. has provided engineering and architectural services for hangers and renovations at both facilities. These projects are described in the previous experience section of this EOI. That experience, along with our close proximity to the project site will be of great benefit to the Army National Guard.
  
- ❑ **Accurate Project Estimating:** Our approach to architecture is different from that of most firms: we take an engineering approach to your project. Our designs are aesthetically pleasing, but we focus on maintainability and functionality and most importantly we focus on design that meets the budgetary requirements of our clients. Our track record of accurately estimating construction costs is one of the strongest reasons we have repeat customers and long-term relationships with our

clients. Through good design and careful estimating, we save our clients time and money. This benefit is specifically important when utilizing state and federal funding in order to avoid project overruns.

- ❑ **Priority:** The architectural division of Thrasher Engineering, Inc. is a young and growing firm. Our current work load will allow us to place your project as a priority and meet the deadlines required.

We are aware of, and comply with Title VI of the Civil Rights Act of 1954, Executive Order 11246, Section 109 of the Housing and Urban Development Act of 1968, Conflict of Interest Statement and Access to Records provisions and all other requirements as they relate to federal and state funded projects

Per your request, enclosed please find two (2) three ring binders containing our proposal along with a PDF file on compact disc.

We look forward to the opportunity of meeting with representatives of the West Virginia Army National Guard to discuss your needs and how Thrasher Engineering can provide the services necessary.

Sincerely,

THRASHER ENGINEERING, INC.



CHAD M. RILEY, P.E.  
Principal-In-Charge



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

### Request for Quotation

BID NUMBER  
**DEFK11009**

PAGE  
**1**

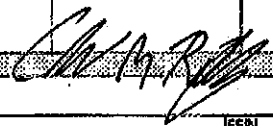
BUYER 32  
 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE  
**THRASHER ENGINEERING, INC.**  
 30 COLUMBIA BOULEVARD  
 CLARKSBURG, WV 26301

RFQ COPY

DIV ENGINEERING & FACILITIES  
 ARMORY BOARD SECTION  
 1707 COONSKIN DRIVE  
 CHARLESTON, WV  
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
07/21/2010						
BID OPENING DATE: 08/17/2010		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	QTY NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29	N/A	N/A
<b>ARCHITECTURAL DESIGN SERVICES</b>  <b>EXPRESSION OF INTEREST</b>  THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA ARMY NATIONAL GUARD'S DIVISION OF ENGINEERING & FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL DESIGN SERVICES FOR THE EXPANSION OF THE BUILDING AND HANGER SPACE OF THE CURRENT FIXED WING ARMY AVIATION TRAINING SITE IN BRIDGEPORT, WV, PER THE FOLLOWING BID REQUIRMENTS AND THE ATTACHED SPECIFICAITONS.  <b>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</b>  ***** THIS IS THE END OF RFQ DEFK11009 ***** TOTAL:						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE 				TELEPHONE	DATE	
				304-624-4108	AUGUST 14, 2010	
TITLE			FEN	ADDRESS CHANGES TO BE NOTED ABOVE		
PRINCIPAL-IN CHARGE			55-0633596-6			

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

**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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: THRASHER ENGINEERING, INC.

Authorized Signature: *[Signature]* Date: AUGUST 13, 2010

State of WEST VIRGINIA

County of HARRISON, to-wit:

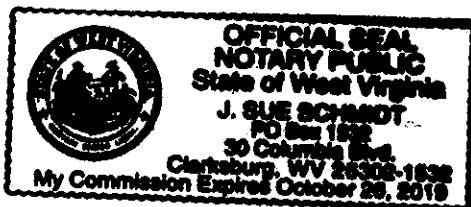
Taken, subscribed, and sworn to before me this 13<sup>TH</sup> day of AUGUST, 20 10

My Commission expires October 26, 20 19

AFFIX SEAL HERE

NOTARY PUBLIC

*[Signature]*



## STATEMENT OF QUALIFICATIONS

### FIRM OVERVIEW

The mission of Thrasher Engineering, Inc. is to provide innovative solutions to our clients' challenges and offer every client the highest level of service possible while adhering to principled business practices. Since 1983, that has meant a hands-on approach to each and every project. Whether it is a multi-million dollar utility or site development project, or a site survey for a private individual – we utilize our talent and expertise, resulting in our on-going track record of success.

### THE RESOURCES YOU NEED. THE SERVICE YOU DESERVE.

Our goal is to have satisfied clients – so we become our clients' partner project after project



*Thrasher's Corporate Office is located in Clarksburg, WV, just minutes from the WVANG project site*

Thrasher Engineering, Inc. provides you with the resources you need utilizing our **single source management approach**. By combining engineering, architectural, surveying, environmental, construction monitoring and materials testing staff, we have become the region's industry leader. We are able to pull together a wealth of experienced talent, bringing the best minds and proven methods to every job.

We believe in the value of cost effective and sustainable design. We also believe in responding to our clients in a timely fashion. We put these beliefs into practice on every project and with every client. That practice, and our value added service attitude is what makes Thrasher the right choice, project after project.

### BRINGING THE RIGHT RESOURCES TOGETHER

Our staff has the resources to handle multiple projects simultaneously. Experienced people with complementary skills, an all encompassing variety of disciplines, value added services and offices located to easily serve clients throughout the mid-Atlantic region. These are the resources Thrasher brings together resulting in "Successful projects. Repeat clientele."

We offer a variety of resources drawing upon the abilities and experience of a wide range of professionals, allowing us to create the right solutions to address any challenge.

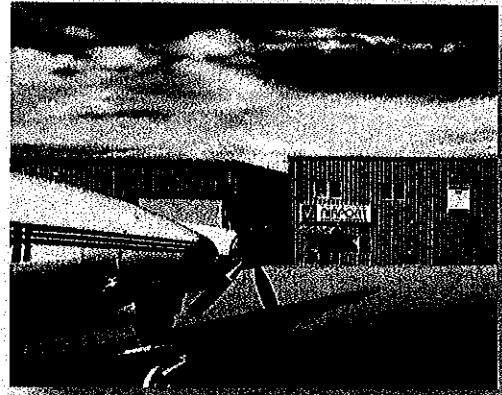
### PROFESSIONAL EXPERIENCE FROM CONCEPTION TO COMPLETION

Successful projects require more from an engineering firm than just technical design expertise. At Thrasher, our project managers and engineers focus on all aspects of "getting the job done."

Using a combination of technology and business acumen our personnel are involved in our projects to the extent requested by our clients.

- Planning**
- Preliminary engineering**
- Funding direction & application assistance**
- Regulatory permitting**
- Design and construction document preparation**
- Bid documentation & process oversight**
- Construction administration & monitoring**
- Post construction service & on-going commitment**

We understand you have a lot on the line. Thrasher has a lot on the line, as well. The success of your project is not only important to you and your community, its success is essential to us.



The KCI VI facility at North Central West Virginia Airport is one of recent renovation projects completed by the Thrasher team.

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## **ARCHITECTURAL SERVICES OVERVIEW**

At Thrasher Engineering our architects recognize that specific project needs vary by client. For this reason we take a very different approach to client interaction. Being a good consultant goes far beyond putting ideas on paper; it also encompasses being able to assemble a team of professionals to handle every aspect of your architectural project from start to finish. As a multi-disciplinary firm, Thrasher does just that by utilizing our single source management system.

Our diverse background makes us the right firm for your project, no matter how large or small. We pride ourselves in our aesthetic design while working to excel in accurate cost estimating, budget control and sustainability. Proven through a record of successful projects, our creative design and engineering approach to project management is what sets us apart from other firms.

The Thrasher architectural team has the means to provide exceptional service to all types of clients.

**Our portfolio of architectural projects includes:**

**Public & private office buildings**

**Financial institutions**

**Healthcare facilities**

**Building additions & renovations**

**Recreational facilities**

**Public safety buildings**

**Educational facilities**

**Single & multi-family residential**

Successful projects take a collaborative effort from all parties involved. At Thrasher, our architects listen to your ideas, goals and aspirations and address these through creative and sustainable design.

Our architects bring over 30 years of experience to the project; a balance of aesthetics, functional design and maintainability is the base of their design. The civil engineering team, working with the architects,

offers the structural landscape architecture segments. These abilities have been demonstrated in projects shown as examples in this proposal including the KCI VI renovations at North Central West Virginia Airport along with the AARF building at the facility and the Mid Atlantic Aerospace Complex hanger project which is currently out to bid.

In addition to our ability to provide the necessary services for architecture, civil engineering and field services Thrasher Engineering, Inc.'s selection brings the following benefits To the West Virginia Army National Guard project:



*The new AARF Building at NCWV airport was engineered by Thrasher*

- ❑ We offer experience with Army National Guard projects. Our lead architect has provided structure inspection and repairs, along with fire code and ADA improvements at twelve (12) armory facilities in West Virginia.
- ❑ We offer the advantage of being located within ten (10) minutes of the project site, allowing for immediate response to any needs.
- ❑ We offer an approach to architectural projects different from that of other firms. Our engineering emphasis on the details of construction bidding documents for our design, in addition to the design itself, results in ***more accurate bids and fewer change orders - bringing cost savings to our clients.***
- ❑ We offer a solid track record of architectural design for federally and state funded renovation and additional projects in addition to new structures requiring integrated communication among design and construction teams.
- ❑ We offer ***a teamwork process.*** Whether we are serving as the civil engineer for architecture within our own company, as a sub-contractor to other architectural firms or, in a design-build team, we communicate with the project owner to provide design and construction services ***on-time and within budget.***

Thrasher Engineering has provided feasibility studies, design, bidding and construction phase services for **over \$600 Million** in construction for infrastructure and building projects **within the State of West Virginia.**

Simply stated, there is no other West Virginia civil engineering firm that can surpass Thrasher Engineering in the quality of service and technical ability necessary to meet the needs of the West Virginia Army National Guard in their plans for this expansion.



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## **MECHANICAL-ELECTRICAL-PLUMBING DESIGN**

The only engineering service that Thrasher Engineering, Inc. sub-contracts for our building projects is for Mechanical, Electrical and Plumbing design. However, we consider these designers as a part of our team and represent them under our *single contact management method*. For your project, we will utilize the services of *Harper Engineering*.

Harper Engineering is an innovative new engineering firm serving architects, owners, and contractors throughout the state. They offer full service commercial and industrial engineering with over 60 years of combined experience striving to offer the best service at the most competitive rates.

M-E-P services that Harper Engineering will provide for the project include design of HVAC, electrical, lighting, fire alarm, security and communications, plumbing and fire suppression.

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## **SITE DEVELOPMENT ENGINEERING**

Engineering for site development is far from a "one size fits all" approach. Every project is unique. It requires a blend of technical expertise, combined with quality planning principles, efficient design, market realities, and flexibility to seize opportunities. With our diverse staff, Thrasher Engineering has the right blend of talent to make your project a success.

Thrasher Engineering understands that the design of a successful site development project must factor in economic, political, strategic and many other aspects that go well beyond engineering. We pride ourselves on being a partner in projects that improve the quality of life and economic prosperity of our communities.

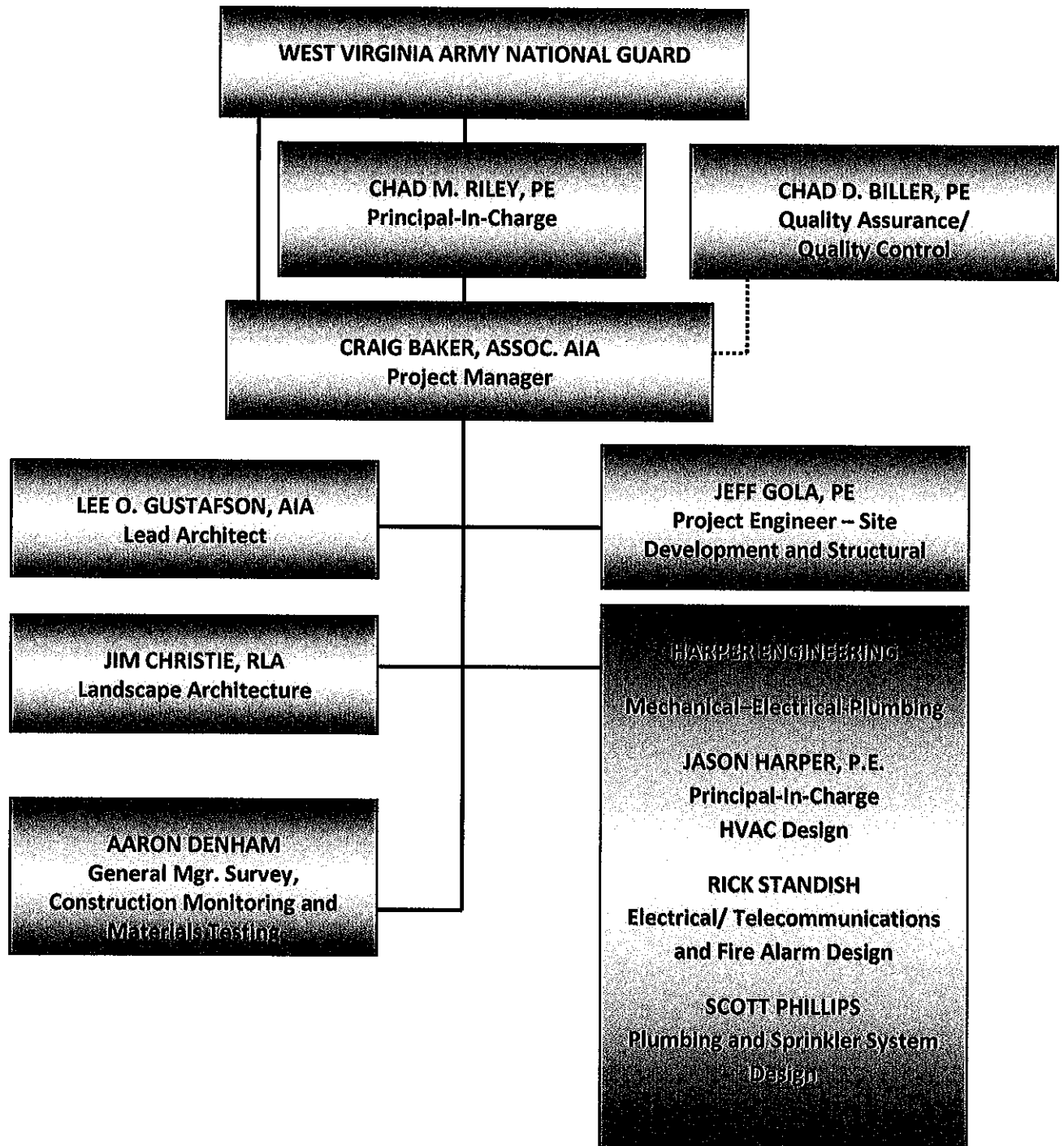
The Thrasher Engineering team possesses expertise in every facet of site development: site selection and planning, grading, storm water management, erosion and sediment control, permitting and infrastructure design.

**Our portfolio of site development projects includes:**

<b>Industrial &amp; business parks</b>	<b>Streetscapes / Sidewalks</b>
<b>Mixed-use developments</b>	<b>Commercial developments</b>
<b>Athletic facilities</b>	<b>Single &amp; multi-family residential development</b>
<b>Federal correctional facilities</b>	<b>Primary, secondary &amp; higher education facilities</b>
<b>Recreational resorts / Lodging</b>	<b>Shopping plazas</b>

Whether it is a large-scale business park, commercial site, residential subdivision, or streetscape, Thrasher Engineering knows how to bring successful results to any development project.

**TEAM MANAGEMENT AND PERSONNEL QUALIFICATIONS**



The expertise of the Thrasher Engineering staff is a combination of education and experience; it is reflected in all aspects of our services. The firms are led by a talented group of Principals and Partners who are dedicated to the success of our projects and the satisfaction of our clients.

The West Virginia Army National Guard will benefit from the resources of not only Thrasher Engineering for their project, but also services provided **Harper Engineering**, an M-E-P firm whose partners are highly experienced in National Guard facilities.

The principals and project team members from Thrasher Engineering who will be involved with the project include:

**Chad M. Riley P.E.** is partner in Thrasher Engineering. His primary responsibilities include overseeing both site development and architecture projects as Principal-In-Charge and Project Manager. His experience related to your project includes site development and project management for many new business and industrial parks, including building facilities throughout the state. Mr. Riley is a graduate engineer from Fairmont State University. He will serve as **Principal-In-Charge** for the project, coordinating architectural and engineering services along with overseeing all contractual obligations of the project.

**Chad D. Biller, PE** is also a partner of the firm and specializes in airport facility engineering. Chad serves as Principal in Charge of all of Thrasher's services for the North Central West Virginia Airport in addition to the Mid-Atlantic Aerospace Complex. He is extremely experienced and knowledgeable of all regulatory aspects of air facilities and will provide quality assurance and quality control throughout the project. Chad holds a Bachelor of Science degree in Civil Engineering from West Virginia University.

**Craig Baker, Associate AIA** will serve as **Project Manager**. He joined Thrasher Engineering in 2006, following six years of experience with other firms. Mr. Baker received his Bachelor of Science Degree in Architecture Engineering, in 2001 from Fairmont State University. Craig has extensive experience Office buildings, city government buildings, residences, medical facilities and restaurants are among his expertise. Mr. Baker has expertise in all CADD design programs relative to architecture.

For thirty years, **Lee O. Gustafson, AIA** has provided architectural design and engineering services for educational, government, commercial, health care, and residential development throughout the State of West Virginia. Following twelve years of practice with other architectural firms, he formed his own firm, a sole proprietorship, in March of 1985. A graduate of the University of Cincinnati, Mr. Gustafson brings over thirty years of experience to the team, with over twenty-five of those years designing and managing projects throughout the State of West Virginia. Lee will serve as **Lead Design Architect**. His experience relative to this project includes the design of the West Virginia University Eye Institute, a 50,000 square foot office and medical facility.

**Structural engineering** and site development aspects of your project will be the responsibility of **Jeff Gola, P.E.** as **Project Engineer**. Mr. Gola is based in Thrasher Engineering's Clarksburg office, which will allow for communication with the architectural team. He joined Thrasher Engineering in 1998 and is responsible for the structural aspects of engineering design, as well as airport, road, sidewalk, storm water management and demolition projects. Mr. Gola is a Summa Cum Laude graduate of West Virginia University's College of Engineering and Mineral Resources. He is a Registered Professional Engineering in the State of West Virginia.

The Thrasher Engineering, Inc. team also offers the field services necessary to meet the entire scope of your project. Survey, along with construction management and materials testing will also be provided by our team.

Field services, consisting of survey, construction inspection and materials testing are under the direction of **Aaron Denham**. Mr. Denham joined Thrasher Engineering in 2000 and was named a Partner in the firm in 2010. He serves as General Manager of the field services departments and has managed both Quality Control and Quality Assurance Programs for many federally funded construction projects. Mr. Denham's staff includes over 40 project representatives and inspectors, based throughout the State, which brings time and cost efficiencies to our projects. He is a graduate of Fairmont State University with a Bachelor of Science degree in Civil Engineering Technology.

**Jason E. Harper, P.E.**, Principal of Harper Engineering brings 7years design experience to our team. He has experience with HVAC and piping design. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings. Jason will be assisted by firm partners Scott Phillips and Rick Standish to provide all necessary MEP services

Resumes of these team members follow.

## **CHAD MITCHELL RILEY, P.E. - PRINCIPAL-IN-CHARGE**

*Mr. Riley joined Thrasher Engineering in 1996 and became a partner in the firm in 2004. His past experience with the firm has included survey and construction management / inspection responsibilities; he now holds the responsibility of Site Development Manager and lead engineer for site development projects. The focus of these projects is for the development of industrial and business parks, multi-use developments and long-term, multi-phase infrastructure improvement and building projects. He has extensive experience in working with both Federal and State funding agencies, including the US Department of Commerce, Economic Development Council and the State of West Virginia Development Office.*

*Mr. Riley is currently, or has served, as Project Manager for numerous economic development projects throughout the State of West Virginia. In this capacity, he holds ultimate responsibility for client communication, engineering design, funding issues, construction document preparation, bidding, and construction management.*

### **SITE DEVELOPMENT PROJECTS**

- WHITE OAKS BUSINESS PARK**
- FAIRMONT STATE UNIVERSITY: 10-YEAR INFRASTRUCTURE IMPROVEMENTS PROJECT:**
  - *Utilities, Roadways, Sidewalks, Storm Drainage, Utility Relocation*
  - *Parking Garage*
  - *Falcon Center (Student Activity Center)*
  - *Bryant Place Dormitory*
- RALEIGH COUNTY MEMORIAL AIRPORT INDUSTRIAL PARK**
- McDOWELL COUNTY PRISON**
- PINECREST BUSINESS AND TECHNOLOGY PARK –RALEIGH COUNTY, WV**
- WOLF CREEK PARK “LIVE, WORK AND PLAY” COMMUNITY – FAYETTE COUNTY, WV**
- CHARLES POINTE DEVELOPMENT – BRIDGEPORT, WV**
  - *Mass Grading, Roadways, Sidewalks, Utilities*
  - *Conference Center*
- WOOD PRODUCTS INDUSTRIAL PARK – MINGO COUNTY, WV**
- PUTNAM COUNTY INDUSTRIAL PARK**
- BELINGTON INDUSTRIAL PARK – BARBOUR COUNTY, WV**
- FEDERAL BUREAU OF PRISONS**
  - *Glenville Correctional Institute – Gilmer County, WV*
  - *Canaan U.S. Penitentiary / Federal Prison Camp*
- U.S. DEPARTMENT OF VETERANS AFFAIRS – WEST VIRGINIA NATIONAL CEMETERY EXPANSION**

### **EDUCATION**

- Fairmont State University – Bachelor Of Science – Civil Engineering Technology**

### **REGISTRATIONS**

- Registered Professional Engineer, State of West Virginia**
- Registered Professional Engineer, State of Maryland**
- WVDOH Certified Concrete Technician / Certified Compaction Technician**

### **AFFILIATIONS**

- Fairmont State University Technology Advisory Committee**

## **QUALIFICATIONS SUMMARY**

Chad Biller has experience in all aspects of engineering. His primary emphasis has been on highways, roads, bridges and airports. Chad joined Thrasher Engineering, Inc. in 1999 and is a partner of Thrasher Engineering. Since joining the firm, Chad has served as Principal-in-Charge and Project Manager for the Benedum Airport Authority (North Central West Virginia Airport) and the Raleigh County Airport Authority. His airport experience includes all aspects of the development and update of Master Plans and Airport Improvement Plans, including the oversight of engineering design and construction for projects within those plans. Specific project scopes have included runways, de-icing and run-up pads, obstruction removal and environmental studies including assessments and wildlife management.

*Chad manages and designs the following disciplines:*

- *Manage and design engineering projects for the WVDOH. The projects included 4 lane divided highways, bridges, 2-lane roads and road widening projects.*
- *Site Development projects for private and public clients. These projects included mass grading, roads, drainage, storm water management, erosion and sediment control and numerous regulatory permitting activities.*
- *Airport Engineer for North Central WV Airport. Involved in the day to day and long term upgrades of the airport to promote safety and develop airport properties.*
- *Responsible for managing 7 full time survey crews. Responsibilities include cost estimating, scheduling and supervision of 30 employees.*

## **EDUCATION**

- B.S., Civil Engineering – West Virginia University, 1992*

## **CERTIFICATIONS**

- Registered Professional Engineer (PE), State of West Virginia #13620*
- Registered Professional Engineer (PE), State of Pennsylvania #PE056012E*
- Registered Professional Engineer (PE), State of Ohio #64594*
- American Society of Civil Engineers*
- American Society of Highway Engineers*
- Member of the Taylor County Economic Development Authority*

## **REPRESENTATIVE PROJECT EXPERIENCE**

- Benedum Airport Authority: Provided a grading, drainage, and erosion and sediment control package for improving the North Central WV Airport runway safety area approach slopes. The project is now proceeding to the design of an 800 foot runway extension.*
- Mid-Atlantic Aerospace Complex: Design of approximately 5,400 linear feet of a storm water system and a detention pond. The proposed system will provided drainage infrastructure for future development along an existing airport taxiway.*
- Raleigh County Memorial Airport – Served as Project Manager for the 2004 Airport Master Plan and Airport Layout Plan, overseeing the study and final plan development including inventory, forecast, demand capacity and environmental overview. Also serves as the Project Manager for the design and construction of the Raleigh County Airport Industrial Park, adjacent to the airport.*
- Grafton Hospital, Helipad Relocation: Served as Project Manager for the siting study and ultimate relocation of the helipad serving the Taylor County based regional hospital.*

## CRAIG BAKER, ASSOCIATE AIA – PROJECT MANAGER

*Mr. Baker joined Thrasher Engineering, Inc. in 2005, following six years of experience with other firms. He received his Bachelor of Science Degree in Architectural Engineering in 2001 from Fairmont State University. Office buildings, city government buildings, medical facilities and restaurants are among his expertise. Mr. Baker has expertise in all CADD design programs relative to architecture. As Project Manager for numerous public and private architectural projects throughout the State of West Virginia, Craig holds responsibility for client communication, scheduling, construction document preparation, bidding, construction management and contract administration.*

### EDUCATION

- Bachelor of Science—Architectural Engineering, Fairmont State University

### AFFILIATIONS

- American Institute of Architects - Associate, West Virginia

### REPRESENTATIVE PROJECT EXPERIENCE

- NCWV KCI/V-1 services renovations – Complete renovation of the V-1 services space. Renovations consisted of modernizing the space to accommodate a pilot's lounge, private offices, first class waiting area and more. A covered canopy was added to the exterior to provide a formal entrance into the space. Cost = \$300,000.00, Completed 10/2009*
- Elkins Hospice Care – Renovation of an existing 5,000 SF nursing facility into a 12 bed Hospice Care Center. Each room was designed to be a private suite with furnishings reminiscent of home. A group kitchen and dining area as well as a chapel were also included. The project also included a 2 story 10,000 SF administrative addition. Cost = \$2,000,000.00, Completed 10/2008*
- WVU Natatorium - Complete renovation of the men's and women's swim team locker rooms as well as the swim coaches' offices. Cost \$60,000.00, Completed 1/2010*
- Exxon on the Run Station @ White Oaks – 5,400 Sf retail service station which will include walk in coolers, a private office, donut shop & store room. All Brick façade with standing seam metal roof. Cost \$700,000.00, Scheduled Completion 6/2010*
- Horizons Church Phase 2 – SF addition to the Church building. Building to include a multi-purpose gymnasium, kitchen, food pantry as well as a two story section to house classrooms and youth facilities. Cost = , Scheduled completion 6/2010*
- Harrison County School Board, Liberty High School Football Stadium – Complete football stadium, practice facility and field house. Project consists of bleacher seating for approximately 2,500, a 6500 SF field house, new lighting, a new 8 lane rubberized running track and a new practice/soccer field. Cost = \$2,500,000.00, Scheduled Completion 10/2010*
- Progress Centre at White Oaks – 23,000 SF, 2 story, class A office building. All masonry construction complete with elevator and a finished common area finished with slate tile and wood crown and chair molding. Modernly secure facility equipped with card reader systems at all entrance points. Cost = \$2,600,000.00, Completed 1/2010*
- Mason County Board of Education, High School Football Stadium - Complete football stadium consisting of bleacher seating for approximately 3,500, new lighting, a new 8 lane rubberized running track and a new artificial turf playing field. Cost = \$3,200,000.00, Completed 8/2009*
- Morgantown AES Federal Credit Union – A 5,500 SF banking facility consisting of private offices, board rooms, meeting rooms, etc. A 3 lane drive thru as well as a separate ATM lane was also included. Cost = \$1,300,000.00, Completed 6/2009*
- Rahall Center at the Woodlands = 10,000 SF office building. Designed with capturing the sites panoramic views at mind. The building perimeter walls are 90% glass with the building's main feature being the front and rear walls being composed of an approximately 110' span of continuous curved*

*glass curtain wall. Building materials were brick and cut stone with limestone accents and a standing seam metal roof. Cost = 1,700,000.00, Completed 10/2007*

- MVB Bank and office building – 20,000 SF, 2 story office building with MVB bank occupying 75% of first floor. All brick façade with a standing seam metal roof. Cost = \$3,250,000.00, Completed 6/2007*
- Mon Valley Bank, Bridgeport– 10,000 SF, 2 story building complete with 3 lane drive thru. Cost \$1,200,000.00, Complete 5/2005*
- Dominion Gas Building – 19,000 SF, 1 story office building equipped with offices, large scale conference rooms and training facilities. Split faced block construction with asphalt architectural shingle roof. Cost = \$2,750,000.00, Completed 10/2008*
- City of Oak Hill Police Station – 6,300 SF police station facility with offices, family court room, training room and holding cell area. Equipped with a two stall sally port. Cost \$1,400,000.00 Completed 6/2009*
- Glenville State Convocation Center – Schematic designs completed for the new facility which will house a 5,000 seat basketball arena, hall of fame museum, locker rooms, study facilities, film rooms, classrooms and a medical center. A separate Intramural practice facility was also included. Estimated cost \$25,000,000.00*
- Cambridge Office Park Buildings – 7 single story building with square footages ranging from 4,000 SF to 12,000 SF. Each is designed with entrances that will accommodate multiple tenants. Each building is constructed out of an all brick façade and each highlighted by their distinct roof top cupola. Cost = Varies from \$200,000.00-\$800,000.00 Completed 11/2009*
- Northern and Southern High School athletic Facilities – Locker room, press box and concession stand renovations at each school. Estimated Cost = \$250,000.00, Scheduled Completion 2/2010*



## **QUALIFICATIONS SUMMARY**

*Prior to joining Thrasher Engineering in 2005, Mr. Gustafson owned and operated a sole-proprietorship firm specializing in health care, business, and educational facilities. Additionally, he provides architectural services for government & community facilities, apartment complexes, religious buildings, industrial facilities and office buildings and structures associated with Thrasher Engineering's site development projects. A graduate of the University of Cincinnati, Mr. Gustafson brings over thirty years of experience to the team, with more than twenty-five of those years designing and managing projects throughout the State of West Virginia.*

## **EDUCATION**

- Bachelor of Science-Architecture, University of Cincinnati, 1975*

## **CERTIFICATIONS**

- American Institute of Architects (AIA), State of West Virginia*
- American Institute of Architects (AIA), State of Maryland*
- Certification, National Council of Architectural Registration*

## **AFFILIATIONS**

- West Virginia Society of Architects*
- A.I.A. Committee on Architecture for Education*
- A.I.A. Committee on Architecture for Health Care*
- A.I.A. Committee on Architecture for Justice*
- SHPO Listed and Approved for Historic Preservation Work*
- Past Member of Clarksburg Municipal Building Commission*
- Past Member of Harrison County Housing Council*
- Genesis Youth Center Board Member*
- Clarksburg Rotary*
- Past Member of Allohak Council Boy Scouts of America*

## **REPRESENTATIVE PROJECT EXPERIENCE**

- Elkins Hospice Care – Renovation of an existing 5,000 SF nursing facility into a 12 bed Hospice Care Center. Each room was designed to be a private suite with furnishings reminiscent of home. A group kitchen and dining area as well as a chapel were also included. The project also included a 2 story 10,000 SF administrative addition. Cost = \$2,000,000.00, Completed 10/2008*
- Grant County Nursing Home; 15,000 of Additions and Renovations for a 45 Bed Addition to the existing 60 Bed Long Term Care Facility, Cost \$1,250,000, plus several follow up additions and renovations for the Alzheimer Wing, Dining Room, Kitchen, Physical Therapy and Administrative Offices.*
- Cortland Acres Nursing Home, Thomas WV, Alzheimer Wing, 3,120 sf, \$283,000, Laundry Wing, 950 sf, \$69,650, Physical Therapy and Pool Addition, 3,460, \$461,925, Administrative Offices and Dining Room Additions & Renovations*
- Tucker County Senior Center, 7,980 sf, \$430,000, Hardy County Senior Center, 5,000 sf, Cost \$350,000, and Newburg Senior Center, 3,700 sf, Cost \$296,000. These projects were each constructed with funding from Small Cities Block Grants. All included Community dining and Recreation, Commercial Kitchens, Health Department Facilities, and Senior Center Administrative Facilities.*

- ❑ **Rahall Center at the Woodlands - 10,000 SF office building. Designed with capturing the sites panoramic views at mind. The building perimeter walls are 90% glass with the building's main feature being the front and rear walls being composed of an approximately 110' span of continuous curved glass curtain wall. Building materials were brick and cut stone with limestone accents and a standing seam metal roof. Cost = \$1,700,000.00, Completed 10/2007**
- ❑ **Lumberport Volunteer Fire Department – A one story, 6,260 sf split faced block and wood framed roof Fire Station including 2,800 sf Apparatus Bay, Community/Recreation Room, Bunk/Locker/Shower Room, Cascade Tank Room, Kitchen, Restrooms and Offices, Cost \$310,000**
- ❑ **Clarksburg Baptist Church, "Nannie Monroe" 2 Story Classroom and Office Addition with Connecting Atrium and 5 Stop Elevator connection the Historic Church and New Addition. This addition was designed with brick detailing to complement the existing historic structure which is a prominent Church in the Downtown Clarksburg Historic District.**
- ❑ **Shenandoah Office Park - 2 Multi-Story Office Buildings, Martinsburg, WV, 2 story, 20,000 sf MVB Bank Building Completed 2007, 3 story, 30,000 sf Office Building in schematic design phase. The buildings are designed in a white brick and green roof and window theme to distinguish the park from the traditional red brick used in the historic areas. The site design and landscaping have been recognized for trend setting concepts in storm water management.**
- ❑ **MVB Bank and office building – 20,000 SF, 2 story office building with MVB bank occupying 75% of first floor. All brick façade with a standing seam metal roof. The MVB/Shenandoah Building also required a high level of security for the government offices housed on the Second Floor. .Cost = \$3,250,000.00, Completed 6/2007**
- ❑ **Mon Valley Bank, Bridgeport– 10,000 SF, 2 story building with Basement Vaults and Elevator, and 3 lane drive thru. Cost \$1,200,000.00, Complete 5/2005**
- ❑ **Heritage Square Office Complex, Clarksburg, WV, including Heritage Bank (now Wesbanco) 3 stories, 21,000 sf, cost \$\$1,260,000, plus the CWV Tel Federal Credit Union & Dr. DeMarino Optometry Building. All buildings are designed with a split faced block exterior, aluminum windows and storefronts, and standing seam metal roofing to maintain the design theme.**
- ❑ **Morgantown AES Federal Credit Union – A 5,500 SF banking facility consisting of private offices, board rooms, meeting rooms, etc. A 3 lane drive thru as well as a separate ATM lane was also included. Cost = \$1,300,000.00, Completed 6/2009**
- ❑ **Newpointe Medical Center, Clarksburg, WV – 2 One Story Buildings totaling 21875 sf, \$1,750,000, including Medpointe Urgent Care Clinic, Newpointe Pharmacy, Franz Dermatology, Mountain State Physical Therapy, and Dr. Sivakumaren Pediatrics. The buildings are wood frame, fully sprinklered, with synthetic stucco exterior wall finish and architectural shingle roofing.**
- ❑ **Cambridge Place Office Park, Bridgeport, WV; 7 Mixed Use Executive Office Buildings totaling 47,000 square feet at a total cost of approximately \$6,650,000, constructed in phases over a 6 year schedule.. Floor plans are varied, but each building is designed with trademark portico and roof top cupolas, molded brick, divided light windows, and architectural shingles to maintain the park's distinctive design theme. Completed 11/2009**
- ❑ **Horizons Church Phase 2 – SF addition to the Church building. Building to include a multi-purpose gymnasium, kitchen, food pantry as well as a two story section to house classrooms and youth facilities. Cost = , Scheduled completion 6/2010**

## **JEFF GOLA, PE – PROJECT ENGINEER – SITE DEVELOPMENT AND STRUCTURAL**

*Jeff Gola joined Thrasher Engineering in 1998 and serves as Project Manager and Project Engineer with focus on management and design of transportation sector projects, including airport facilities and highways, roadways and bridges. He also provides services for feasibility studies for site development, and storm water projects along with structural engineering. Since joining the firm, Jeff has been assigned as Project Engineer for the Benedum Airport Authority (North Central West Virginia Airport) and the Raleigh County Airport Authority. His airport experience includes study and report development for Master Plans and Airport Improvement Plans, including engineering design within those plans. Specific project scopes have included runways, de-icing and run-up pads and obstruction removal among others.*

### **EDUCATION**

- Bachelor Of Science-Civil Engineering, West Virginia University, 1998 Summa cum Laud*

### **CERTIFICATIONS**

- Registered Professional Engineer (PE), State of West Virginia*
- Registered Professional Engineer (PE), State of Maryland*
- American Society of Civil Engineers*
- American Society of Highway Engineers*
- City of Mannington Code Enforcement Appeal Board*

### **REPRESENTATIVE PROJECT EXPERIENCE**

- Benedum Airport Authority: Provided a grading, drainage, and erosion and sediment control package for improving the North Central WV Airport runway safety area approach slopes. The project is now proceeding to the design of an 800 foot runway extension.*
- Raleigh County Memorial Airport Industrial Park: Designed the roadway and drainage for a 100 acre industrial park. The project included a detailed erosion and sediment control plan. The job was unique to me in that I took the role in handling all invoices and project administration between the owner, contractor, and funding agencies.*
- Fairmont State University, Locust Avenue Demolition: This project was broken down into two phases, which included the demolition of nine (9) residential structures. Once the structures were demolished, a parking lot was installed in the vacant area.*
- City of Mannington, Buffalo Street Demolitions: The goal of the project was to demolish four structures, ranging from three to four story buildings. Once the structures were removed, Thrasher Engineering was able to restore and stabilize an adjacent stream bank and provide off-street parking.*
- Fairmont State University, Engineering Technology Building: For this project we were working with the architect who was renovating the existing technology building on campus. Our portion of the job was to provide grading and utility plans for the renovation. As the plans progressed, the owner decided to include a retaining wall. The wall was designed as a segmental block wall which had grating that spanned between the wall and the proposed building.*
- Harrison County Commission, Handicap Ramp and Sidewalk: The goal of the design was to improve the handicap entrance to the county courthouse by making a wider ramp and gentler slope. The sidewalk that makes up Court Street, adjacent to the courthouse was designed to remove all existing uneven pavers, slate and concrete and replace with a concrete sidewalk with a brick paver border.*
- Buffalo Wild Wings, Site Preparation: Performed the design of site preparation for a developer in Charleston, WV for construction of the franchise restaurant. The work included grading, drainage, parking layout, landscaping, and utilities.*

## **JAMES CHRISTIE, RLA – LANDSCAPE ARCHITECT/PLANNER**

*Mr. Christie joined Thrasher Engineering in February of 2010, bringing with him over thirteen years of high end landscape design/build experience and eleven years of Landscape Architecture, nine of which were as Partner/Owner or Associate. Throughout his career, he has successfully coordinated projects from conceptual design through construction management in the US and abroad. His business related abilities include excelling in presentations to Design Review Boards, homeowners and developers.*

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### **EDUCATION**

- Bachelor of Science in Landscape Architecture, West Virginia University, Morgantown, West Virginia, 1998*

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### **PROFESSIONAL ASSOCIATIONS AND AWARDS**

- Registered Landscape Architects in Colorado (RLA)*
- Xeriscape Grand Award – Betty Ford Alpine Garden, Vail, Colorado, 2004*
- Xeriscape Grand Award – Private Estate, Eagle County, Colorado, 2004*
- Water Feature Merit Award – Betty Ford Alpine Garden, Vail, Colorado,*

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### **FEATURED PLANNING PROJECT EXPERIENCE**

- La Estancia de Cafayate - Argentina Ventana Mar - Costa Rica*
- The Himalayan Ski Village - India*

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### **FEATURED DESIGN/BUILD PROJECTS EXPERIENCE**

- BETTY FORD ALPINE GARDENS – Vail, Colorado 1998-2002 Landscape Architect, Project Manager: Designed a specialized \$1 mil Alpine Rock Garden and Xeric Garden. Completed color rendering, site plan, grading plan to comply with ADA requirements, construction documents and on-site construction management for the Alpine Rock Garden (Dedicated - summer 2000) and the Children's Garden (Designed by EDAW).  
- Merit Award: 2003 for Water Feature, Associated Landscape Contractors of Colorado  
- Grand Award: 2004 for Xeriscape, Associated Landscape Contractors of Colorado*
- MONTROSE BOTANICAL GARDENS – Montrose, Colorado 1999-2004 Landscape Architect: Created a master plan and color rendering for the Montrose Botanical Society to use as a marketing tool to raise funds to complete the gardens. Successfully designed xeric garden, meditation garden, children's garden and water features. The garden is currently one quarter finished and has created a source of pride for the community.*
- PRIVATE RESIDENCE - Diamond 'S' Ranch, Eagle County, Colorado Landscape Architect/Project Manager: Envisioned and broadened owner concept of landscape potential. This \$1.6 mil, 100 acre project included Master Plan, grading plan, fire mitigation plan, construction details, planting plan, re-vegetation plans, multiple hot tub and swim-ex plans, project management and owners contact. Successfully implemented all designs to create an award winning fire wise property.  
- Grand Award: 2004 for Xeriscape, Associated Landscape Contractors of Colorado*
- FRANK LLOYD WRIGHT'S FALLINGWATER – Mill Run, Pennsylvania Landscape Architect Intern: Chosen as the Landscape Architect intern to live on-site at the famous property. Designed site plans for trails and signage, master plan for guest house site, planting plan and implementation of plan. Implemented a plant/ soil mapping and testing of the grounds for future uses.*

## **AARON W. DENHAM – PARTNER / GENERAL MANAGER MATERIALS TESTING AND INSPECTION**

*Mr. Denham joined Thrasher Engineering in 2000 and serves as Manager of all Construction Inspection and Materials Testing projects for the firm. Mr. Denham is responsible for all construction inspection for water, sewer, site development, and WVDOH projects, and the daily activities of the materials testing department for highway, airport, site development, structural and public utilities projects.*

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### **EDUCATION**

- B.S. Civil Engineering Technology, 1999 – Fairmont State University*

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### **CERTIFICATIONS**

- Fairmont State University Level V Certification – Transportation Engineering Technologist – Engineering Specialization*
- WVDOH Compaction Inspector*
- WVDOH Concrete Inspector/Technician*
- WVDOH Aggregate Sampling Inspector*
- WVDOH Aggregate Technician/Inspector*
- WVDOH Bituminous Inspector/Technician*
- WVDOH Radiation Safety*
- Troxler Basic Safety – Nuclear Compaction Gauge*

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### **AFFILIATIONS**

- ASHE – American Society of Highway Engineers*

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### **REPRESENTATIVE PROJECT EXPERIENCE**

- Rubenstein Center for Youth – Davis, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner.*
- Mountaineer Challenge Academy – Camp Dawson, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began September 2007 and completed January 2010.*
- Fairmont State University (Parking Garage, Bryant Place Dormitory, Campus Renovations, Engineering Building Addition, and Falcon Center) [Materials Testing Technician]: Responsibilities included materials testing and inspection of all material used in the construction all the renovations and new construction for Fairmont State University. Performed compaction testing, with nuclear gauge, on soils, stone, and asphalt, tested concrete for air content, slump, temperature, and compressive strength of cylinders, mortar cubes and grout prisms; rebar inspection, and fireproofing testing which included density and thickness.*
- Glennville State College Dormitory – Glennville, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began October 2009 and completed May 2011. Construction cost was \$100 million.*
- Bio Medical Research Facility – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field*

*technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began July 2006 and completed October 2007. Construction cost was \$30 million. (*

- Mon General Hospital Hazel Ruby McQuain Tower – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began September 2006 and completed August 2008. Construction cost was \$90 million.*
- West Virginia University Cancer Center – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began March 2007 and completed May 2008. Construction cost was \$18 million.*
- West Virginia University Alumni Center – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began September 2007 and completed July 2008. Construction cost was \$20 million.*
- Health Science Learning Center – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began May 2005 and completed May 2006. Construction cost was \$12 million.*
- Ruby Memorial Hospital NE Addition – Morgantown, WV [Project Manager]: Responsibilities including reviewing asphalt and concrete mix designs. Coordinating with contractor on assigning field technicians and any special testing. Reviewing field technician's daily reports, field testing reports, and all laboratory testing results before being submitted to owner. Construction began January 2004 and completed May 2005. Construction cost was \$70 million.*

**JASON E. HARPER, PE**

**(304)-541-1390**  
**jason@harperengwv.com**

## EDUCATION

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- West Virginia University Institute of Technology Montgomery, WV  
Bachelor of Science-Mechanical Engineering*

## REGISTRATIONS/PROFESSIONAL AFFILIATIONS

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- WV Licensed Professional Engineer*
- ASHRAE*

## EXPERIENCE

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Jason E. Harper, PE brings 5 years design experience to our firm. He has experience with HVAC and piping design. His projects include educational facilities (including colleges and universities), health care facilities, office buildings, banks, emergency services facilities, postal facilities, and government buildings.

## REPRESENTATIVE PROJECTS

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*Summersville Readiness Center*

*Independence High School HVAC*

*Lewisburg Readiness Center*

*Liberty High School HVAC*

*WVARNG Fire Station*

*Grafton High School Addition*

*Mylan Pharmaceuticals Expansion*

*Robert Byrd Health Science Center*

*Raleigh Co. 911 Center*

*TMH MRI Addition- Ashton Place*

## EXPERIENCE WITH SIMILAR PROJECTS – AIRPORT RELATED PROJECTS

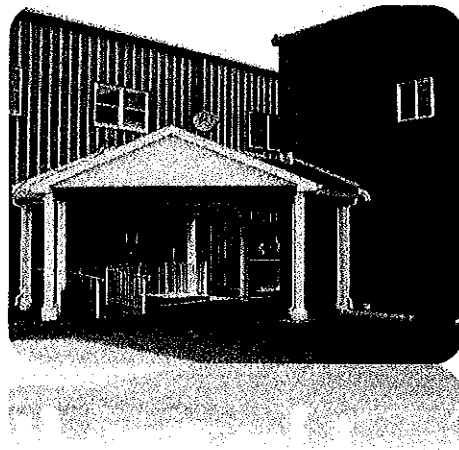
### NCWV REGIONAL AIRPORT – KCI VI FACILITY RENOVATIONS

The North Central West Virginia Airport hired Thrasher Engineering to provide architectural and engineering services to renovate the space occupied by KCI (charter plane service) and / V-1 Aviation Services (aircraft fuel provider) the scope of the project encompassed all services necessary to complete renovation of the v-1 services space, consisting of 1,730 net square feet of existing office area, and construction of approximately 670 sf of canopy area covering entrance doors.

Renovations consisted of modernizing the space to accommodate a pilot's lounge, private offices, first class waiting area and more. A covered canopy was added to the exterior to provide a formal entrance into the space. Cost = \$300,000.00, completed 10/2009

#### PROJECT OWNER'S INFORMATION –

**NORTH CENTRAL WV REGIONAL AIRPORT / BENEDUM  
AIRPORT AUTHORITY  
MR. RICK ROCK, ACTING GENERAL MANAGER  
TELEPHONE NUMBER: 304-842-3200**





## **NORTH CENTRAL WEST VIRGINIA AIRPORT / BENEDUM AIRPORT AUTHORITY – AARF BUILDING**

In 2006, TEI completed a 1.3 million dollar project consisting of site development work and the construction of an ARFF building at North Central West Virginia Regional Airport. The 8400 sq. ft. building houses two snow plows, a snow broom, a snow blower and a fire truck.

### **PROJECT OWNER'S INFORMATION –**

**NORTH CENTRAL WV REGIONAL AIRPORT / BENEDUM  
AIRPORT AUTHORITY  
MR. RICK ROCK, ACTING GENERAL MANAGER  
TELEPHONE NUMBER: 304-842-3200**

## **ADDITIONAL NORTH CENTRAL WEST VIRGINIA AIRPORT PROJECTS**

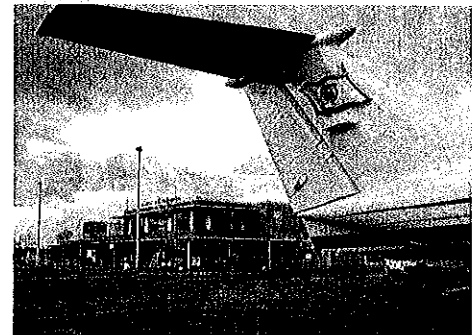
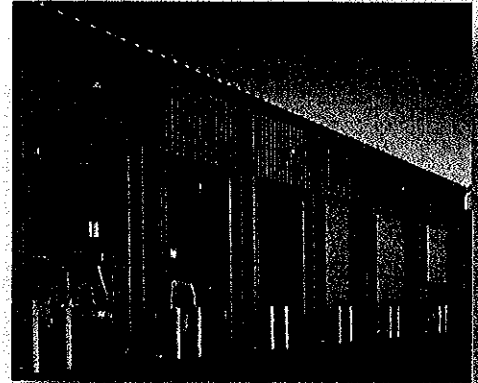
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### **NORTH CENTRAL WEST VIRGINIA AIRPORT 20-YEAR MASTER PLAN**

**AIP Project #3-54-0005-2301** –Thrasher Engineering has served as the Engineer for the North Central West Virginia Airport (formerly Harrison -Marion Regional Airport / Benedum Airport) for over seven years. The working team relationship we have established has allowed for on-going improvements to the facility.

The Development of this Plan Included:

- **Inventory of Existing Facilities**
- **Historic Data and Projections for Aviation Demand**
- **Demographic Trends**
- **Commercial Service Industry Trends**
- **Aviation Forecasts**
- **Demand / Capacity Analysis**
- **Accommodation Requirements**
- **Alternatives and Planned Layout**



**AIP PROJECT #3-54-0005-2301 – DESIGN AND PREPARATION OF CONSTRUCTION PLANS FOR DE-ICING PAD AND RUN-UP PAD.**

This project involved site work to accommodate a new run-up pad to the east side of the existing runway. The ramp area was completely repaved and a collection system for de-icing fluid was installed allowing drainage into the sanitary and storm sewer systems. This project also included terminal renovations with a new secure waiting area, new restrooms and a baggage carousel.



**AIP Project #3-54-0005-2301 – Design and Preparation of Construction Plans for a New Segmented Circle with Wind Cone, 2 New Snow Plow Vehicles, F.O.D. Removal Equipment with Vehicle and a Passenger Boarding Ramp.**

This project included the preparation of contract documents for equipment including a 6-wheel truck with a 16' wide snowplow and spreader box, a ½ ton pick-up with utility trailer, a utility vehicle with tow behind F.O.D. equipment and a passenger boarding ramp.

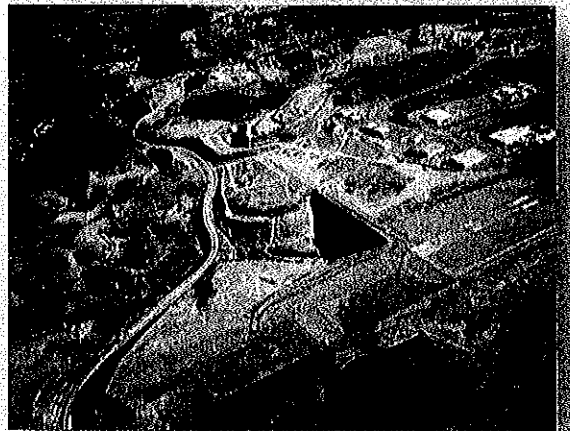
**AIP Project #3-54-0005-2200 – Design and Preparation of Construction Plans for Taxiway Widening and Ramp Paving, Installation of Perimeter Fencing and Door Replacement for ADA Compliance.**

This project consisted of preparing construction plans for paving of grass medians located between the taxiway and apron areas in addition to widening taxiways on both ends of the runway to accommodate larger aircraft. This project included installing perimeter chain link fencing and ADA compliant terminal doors.



**Obstruction Removal & Runway Expansion.** Thrasher Engineering has designed and provided survey, construction management and materials testing services for runway expansion and improvement projects at the North Central Regional Airport. These projects included the following:

**Removal of 2 Obstructive Knolls –** This project is required earthwork consisting of 160,000 CY from each of two locations, totaling 320,000 CY, to remove two obstructive knolls in order to expand the Runway 21 approximately 800 feet to the north. The dirt removed was used to fill in low laying areas, providing taxiways to and from this runway.



**Expansion of a Runway from 5,200 feet to 7,000 feet –** This project required cutting away a mountainside to make way for the runway expansion. During this project 10.7 million CY of stone and soil was moved and recycled on site. This soil was used to fill in low lying areas which opened up 250 new acres of land on which the Mid-Atlantic Aerospace Complex (Industrial Park) sits.

**Resurfacing the Existing Apron-** Designed a complete replacement of the 5 acre apron at Harrison-Marion Regional Airport (CKB) in 2004. Pavement on the apron was completely replaced. Additionally parts of the subsurface were replaced with new stone and made to handle larger and heavier aircraft.

**Environmental Assessment.** Thrasher conducted investigation and developed an assessment in conjunction with a runway safety study and consequential runway expansion. The information presented and analyses performed relative to environmental issues allowed FAA to determine what the level of significance the environmental effects of the proposed project were. The significance of the impacts allowed FAA to determine if impacts could be mitigated or if a higher level of review was required for the proposed action. The HMRA EA detailed the following: background and proposed action, purpose and need, alternatives, affected environment, environmental consequences and mitigation

### **MID ATLANTIC AEROSPACE COMPLEX – HANGER BUILDING**

Thrasher Engineering has been the engineer of record for numerous projects within the campus of the Mid Atlantic Aerospace Complex. The scope for the most recent project, which is currently out to bid, included the development of preliminary plans, permitting and design, and construction document preparation for a 100' x 200' pre-engineered metal hanger and the necessary site preparation

#### **PROJECT OWNER'S INFORMATION –**

**MID ATLANTIC AEROSPACE COMPLEX  
MS. TRACY MILLER, EXECUTIVE DIRECTOR  
TELEPHONE NUMBER: 304-842- 304-842-9415**



*The proposed new MAAC hanger will be similar to this one at the NCWV airport.*

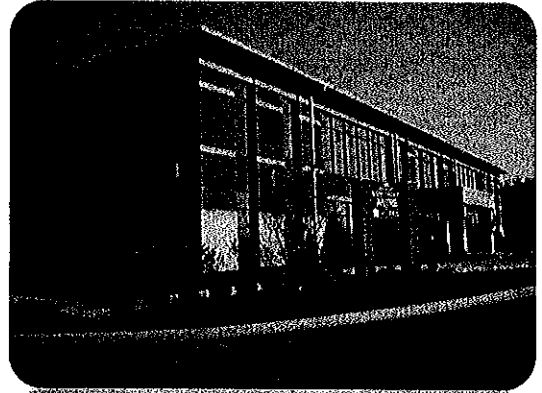
## EXPERIENCE WITH SIMILAR PROJECTS - OFFICE FACILITIES – NEW AND RENOVATED

### PROGRESS CENTRE AT WHITE OAKS BUSINESS PARK

Thrasher Engineering has been retained to design three multi-tenant office buildings, along with a retail strip center. The Progress Centre building is the first of those completed.

The office building is brick and masonry construction with asphalt shingles and EPDM roofing. Designed for up to 6 businesses, the building includes centrally located core spaces including a shared lobby, stairs, elevator and conveniences. Interior includes a finished common area finished with slate tile and wood crown and chair moulding. Modernly secure facility equipped with card reader systems at all entrance points. Wireless, broadband communications are included in this, and all planned facilities at the 88 acre park.

Construction cost: \$2,600,000.00



**PROJECT SIZE: 2- STORY / 20,000 SQUARE FOOT**

**PROJECT OWNER'S INFORMATION**

**HIGH TECH CORRIDOR DEVELOPMENT LLC  
MR. JACK KEELEY  
304-622-2400**

### SHENANDOAH OFFICE PARK – MARTINSBURG, WV

The project consisted of the design for two, two-story multi-purpose office buildings totaling 50,000 square feet. The first completed building is a 20,000 square foot two story structure. The building features a brick exterior and green standing seam metal roof meeting all ADA requirements, including an elevator. The scope of services for the project included site development, exterior design and structural engineering, interior design including carpet and color selection. Tenants of the building include Mon Valley Bank, an engineering firm and two government agencies.

ORIGINAL COST ESTIMATE: \$ 3,232,000.

FINAL COST OF SERVICES: \$ 3,248,000

**(Site Development and Structure)**

**PROJECT OWNER INFORMATION**

**US GOVERNMENT – GSA**

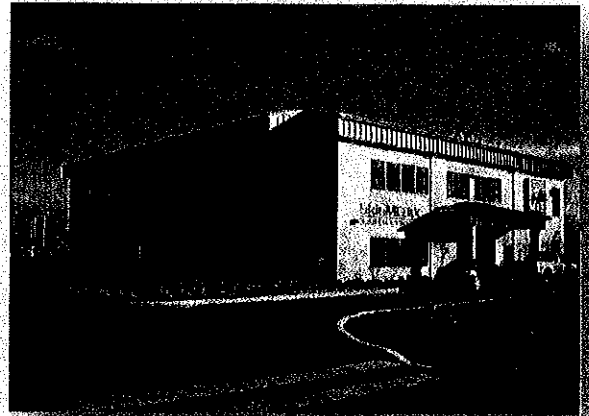
**JAMIE THOMPSON – PROJECT MGR. 215-446-4665**

**STACY KEEFER – PROJECT MGR. 215-446-4579**

**CHARLES GREEN – PROJECT MGR. 215-446-4568**

**MON VALLEY BANK**

**LARRY MAZZA – PRESIDENT 304 -842-6700**



## **RAHALL TECHNOLOGY BUILDING – PINECREST BUSINESS PARK**

**DESCRIPTION AND LOCATION:** 10,000 Square Foot Office Building, Raleigh County, West Virginia – Funded by US Department of Commerce – Economic Development Authority Site development engineering and architectural design were provided by Thrasher Engineering for this project. The oversight of design of electrical, plumbing and mechanical was included. Thrasher Engineering also provided design and construction management for curbs, sidewalks, a parking area, access road and landscaped area also included in the scope of services for this project.

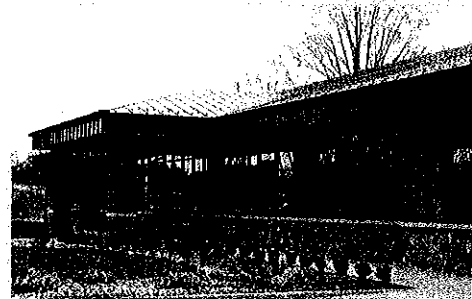


### **PROJECT OWNER INFORMATION**

**PINECREST DEVELOPMENT CORPORATION**

**BILL BAKER**

**(304) 929-2010**



## **HORIZONS CHURCH AND EDUCATIONAL COMPLEX ANNEX**

This project encompassed a total building area of more than 42,000 square feet, including the design of a new 13,750 square foot Family Life Center for the Horizons Church. In addition to the 12,000 square feet for the 800 seat sanctuary, a 2,430 square foot office building and a 14,000 for the Educational and Fellowship annex was completed. This includes classrooms, the Youth Recreation Center, a kitchen, a dining/café area, meeting rooms, a nursery, rest rooms, and the Youth Worship Center. The sanctuary and stage are fully equipped for a wide variety of multi-media productions. The facility included 900 square feet for the food pantry expansion. Total Project Cost: \$3,500,000.00



### **PROJECT OWNER INFORMATION**

**HORIZONS CHURCH**

**LOST CREEK, WEST VIRGINIA 26301**

**304-598-4125**

**SCOTT BURNS**

## **ABRAHAM LINC BUILDING / RENOVATION**

This project included the design and construction management services for the renovation of existing Abraham Linc offices and warehouse, and the addition of new offices. Demolition and disposal work was also included within this scope of services. The building addition was wood framed with full span low slope wood roof trusses and plywood decking. The roofing system was an adhered PVC system over rigid insulation sheathing. Exterior finishes included commercial aluminum entrance systems, clad wood windows with interior wood trim and brick veneer to match the existing building. Interior finishes included vinyl floor coverings, stained wood base and trim, finished drywall and a two-foot by two-foot lay-in ceiling system. This project also included mechanical and electrical work, plumbing for roof and storm drains, rooftop heating and air conditioning, lighting and a fire alarm system.

### **PROJECT OWNER INFORMATION**

**ABRAHAM LINC, INC.**

**304-842-6474**

**MR. DARREN ABRAHAM**

