



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

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

Header

List View 

General Information | Contact | Default Values | Discount | Document Information

Procurement Folder: 96427

Procurement Type: Central Purchase Order

Vendor ID: 000000205388 

Legal Name: WILLIAMSON SHRIVER ARCHITECTS INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 05/11/2015 

Response Time: 11:32

SO Doc Code: CEOI

SO Dept: 0603

SO Doc ID: ADJ1500000004

Published Date: 4/21/15

Close Date: 5/12/15

Close Time: 13:30

Status: Closed

Solicitation Description: Moundsville FMS#9 EOI Design Services 


Total of Header Attachments: 0

Total of All Attachments: 0



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 96427

Solicitation Description : Moundsville FMS#9 EOI Design Services

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2015-05-12 13:30:00	SR 0603 ESR05111500000003676	1

VENDOR

000000205388
 WILLIAMSON SHRIVER ARCHITECTS INC

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.lyle@wv.gov

Signature X **FEIN #** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Moundsville FMS#9 EOI-Design Engineering				

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description : The WV Purchasing Division for the agency, WV Army National Guard's Division of Engineering and Facilities, is soliciting expression of interests for professional design services to include window replacement, design of a "battery room" for the storage and maintenance of batteries for military equipment, and to re-design the exterior drainage from the building to the existing storm drain system, at the Moundsville Armory located in Marshall County, per the attached specifications.



May 12, 2015

Architectural and Engineering Services for
WV Army National Guard

FMS#9 Maintenance Facility
Moundsville, WV



WILLIAMSON

SHRIVER

ARCHITECTS

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that 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: WILLIAMSON SHRIVER ARCHITECTS, INC.

Authorized Signature: *Williamson* Date: 5/8/2015

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 8th day of May, 2015.

My Commission expires Feb. 4, 2019.

AFFIX SEAL HERE

NOTARY PUBLIC *Michelle Stigall*

Purchasing Affidavit (Revised 07/01/2012)



CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained 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.

WILLIAMSON SHRIVER ARCHITECTS, INC.

(Company)

GREGORY A. WILLIAMSON, PRESIDENT

(Authorized Signature) (Representative Name, Title)

304.345.1060 5/8/2015

(Phone Number) (Fax Number) (Date)



May 12, 2015

Ms. Tara Lyle, WV Purchasing Division
2019 Washington Street East
Charleston, WV 25305

RE: Architectural and Engineering Services Expression of Interest
Renovations at FMS#9 Maintenance Facility In Moundsville

Dear Ms. Lyle:

Williamson Shriver Architects, Inc. was excited to learn of the WVANG's recent Request for Expressions of Interest for interior and exterior renovations of the FMS#9 Maintenance Facility in Moundsville, and we are pleased to have an opportunity to submit our team's experience and credentials for your consideration. We are appreciative of the success of the ongoing renovation projects at Weston and Clarksburg and, should we be selected, are looking forward to similar successes on this and future projects.

Williamson Shriver Architects boasts over 300 employee-years of design experience. Our invested internal staff, along with our team members, have established practices in place to ensure that your project is completed successfully – on time and within budget. Our knowledge, skills, and talents have been proven over and over throughout our 45 year firm history.

Please accept this letter as our team's Expression of Interest in serving as your design team for this exciting project. Our proposed project team will include the following:

- **Williamson Shriver Architects**, Charleston, WV - Architectural and structural design
- **Watkins DesignWorks**, Charleston, WV - Interior design
- **Terradon Corporation**, Nitro, WV - Site / civil engineering and landscape design
- **Tower Engineering**, Pittsburgh, PA – HVAC, electrical, and plumbing design

We have worked with each of these firms on past projects. We have numerous shared workflow processes that consistently bring projects in on-time and within budget. These include a strong understanding of costs, constructability, the economy of construction in the different regions of West Virginia, project document preparation across a shared Revit software platform, peer-review quality control strategies, and others.

We understand this project to include window replacement, design of a "battery room", and design of the exterior drainage system. We have an amplified understanding of the particulars of this project due to our site visit on May 6th during which Chief Stanley graciously provided a tour of the facility and offered in-depth background to the project scope. Williamson Shriver Architects has completed many window replacements projects over the years with four significant intense window replacement projects occurring in recent years. Tower Engineering has several defense projects to their credit as does Terradon with site drainage concerns.

Ms. Tara Lyle
May 12, 2015

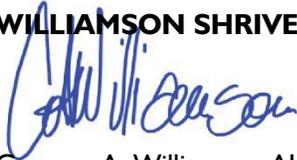
Page 2

In conclusion, please find enclosed one copy of our Statement of Qualifications outlining our history, experience, and qualifications for all team members to assist you in your evaluation. We are eager to be selected to work with the WV Army National Guard in designing this project and look forward to an interview with your selection team in the near future during which we can present our credentials in greater detail.

We hope to hear from you soon.

Sincerely,

WILLIAMSON SHRIVER ARCHITECTS, INC.



Gregory A. Williamson AIA • LEED AP
President / Architect



contents

Williamson Shriver Architects

Firm Overview	Tab 1
Project Approach	Tab 2
Staff and Resumes	Tab 3
Selected Related Project Experience	Tab 4
References	Tab 5

Watkins Design Works LLC

Portfolio	Tab 6
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Terradon Corporation

Portfolio	Tab 7
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Tower Engineering

Portfolio	Tab 8
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Client-Focused Philosophy

Williamson Shriver Architects is a mid-sized firm but with a small-firm attitude of service to our clients. Partners Greg Williamson and Ted Shriver, are actively involved in all aspects of all the firm's projects from concept to completion. To ensure consistency of quality design, all planning and design concepts originate under the direct supervision of the partners.

The following points best represent our philosophy of client-focused and community centered design:

Interactive Design / Programming Process

We believe that good design comes from good listening. We continually stress the importance of involving the building users throughout the design process and facilitating their input into the final program and design. This starts with the schematic "big picture" design concepts

IT IS VITALLY IMPORTANT THAT THE PROJECT BUDGET, PROGRAM, AND OUTCOME EXPECTATIONS ARE COMPATIBLE FROM THE OUTSET.

and continues all the way through the process to interior design and furniture selection. This is accomplished through a variety of methods including presentations, design charrettes, interior and exterior 3D concept modeling, and general discussions and feedback. We believe that our track record of highly successful buildings is directly attributable to this inclusive and interactive process.

Sustainable Design

Multiple members of Williamson Shriver Architects team are LEED Accredited Professionals with experience in a number of LEED Certified facilities, including Spring Mills Primary School, West Virginia's only LEED Gold Building. However, whether or not LEED Certification is being sought, we believe that architects, engineers, designers have a duty to provide services



in a sustainable manner - selecting materials and systems with respect to their impact upon environment as well as to minimize energy usage costs for our clients. Our team commits to bring this attitude to all aspects of this project.

Cost Control

It is vitally important that the project budget, program and outcome expectations are compatible from the outset. Once the initial project budget and project scope is established and agreed upon, all future cost estimates and design decisions will be measured against that budget and program. As indicated herein, further cost evaluation will be performed at the completion of schematic and design development drawings, and at 75% completion of contract drawings. Between formal estimates, the design team is constantly evaluating design and materials/specification alternatives in an on-going effort to achieve the project goals in a cost effective manner and to maximize the value of the funds available for the project.

Design Technology

All of our major consultants use Autodesk Revit, a Building Information Modeling (BIM) software product. As a result, BIM will be utilized throughout the design process. Well beyond traditional drafting software, BIM is a more

Client-Focused Philosophy (continued)

holistic approach to building design and culminates in an electronic 3-dimensional model of the building and contains 'intelligent' components. This product is not only a valuable production tool for the design team, but also offers several benefits to the Owner. For example, it's 'clash detection' capabilities offer better technical control of the coordination between work of multiple disciplines, reducing the number of potential change orders during construction. The software also allows for enhanced clarity of contract documents, and provides a potential facilities management benefit for clients through the manipulation of the intelligent components contained within the model. Williamson Shriver Architects was among the first architectural firms in West Virginia to routinely utilize BIM software on our projects.

Quality Management

Williamson Shriver Architects is proud of our success rate for meeting tight project budgets with a low incidence of construction change orders. We believe that this success stems largely from the retention rate of our long-term staff and selection of consultants that are highly specialized in the type of project being designed.

We have several peer review steps in place to review Construction Documents prior to letting them out for bidding. These include a design

ALL OF THESE STEPS
TAKEN TOGETHER,
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OFFICE.

partner coordination review, review by the Construction Administrator who has jobsite experience, and involvement of nearly all of our production staff in the preparation of technical specifications ... whether or not they are otherwise working on the project ... to assure that the documents are reviewed by a "fresh set of eyes". All of these steps taken together, eliminate most design errors before they make it out of our office.



As products and product applications are constantly changing, our staff and consultants are continually updated on new materials and methods of construction through both internal and outside seminars and programs.

Lastly, utilization of Building Information Modeling (BIM) software greatly reduces the potential for design errors. This is due in part to the integrated approach in which the software cross references information, as well as its potential for clash detection.

Project Approach

The scope for the Moundsville Armory Renovations project includes three primary components; design of a new battery storage room within the existing building, replacement of 16 existing windows (approximately 3'-8" x 5'-6", and installation of a new site drainage system to eliminate the ponding of water on the site which currently occurs regularly. The Williamson Shriver Architects team will take the following approach in the design of each of these elements.

Battery Storage Room

We will begin this design with discussions with representatives of the Owner to establish the criteria for this space with regard to capacity and required features. We will research applicable codes and standards for this specialized space, and in conjunction with the Owner, discuss best practices in applying these codes and standards to the selected design concept. Once the design is finalized, we will proceed with construction documents as discussed later in this section.

Window Replacement

The building has 16 windows which are original to the building. These are a single pane window system which are not energy efficient. On site personnel states that, while these existing windows are operable, they will not attempt to open them in fear that they will not be able to securely re-close them. Each of these windows currently have security bars in place which will need to be replaced in the new window system. Our design staff will physically document and measure the sixteen window openings. We will discuss various window system types with appropriate representatives



of the Owner, and provide and discuss data regarding energy performance capabilities of the window types and systems being evaluated. Once the decision is reached as to the window system type to be included, we will proceed with construction documents as discussed later in this section.

Site Drainage



This is by far the most complicated aspect of this project. The existing site is generally flat, and is quite a distance to the nearest stream or river. The site is surrounded by developed properties. Our team believes that there are several options available to the Owner for successful remediation of these drainage problems.

We will begin this design with an evaluation of the existing site, including a site topographic survey if necessary. We will conduct discussions with the Owner's representatives as to the various options and will provide all opportunities and constraints inherent in each option. We will explore off-site impediments to the successful completion of this work, and will have discussions regarding stormwater discharge with city and county officials where appropriate.

Once a design approach has been selected by the Owner, we will proceed with construction documents as discussed later in this section.

Project Approach (continued)

Project Leadership and Team

On this project, Greg Williamson will be the Partner-in-Charge and will directly oversee all design activities as well as be the main point of contact with the Owner. Directly under Mr. Williamson's leadership, Paul Ray Kleykamp will serve as Project Architect, and will be assigned with the responsibility to produce documents and specifications based upon the design as well as to coordinate all team member activities and contributions to the project.

For this project, Williamson Shriver Architects will team with three firms specifically selected to provide the most comprehensive, highest quality specialty services relating directly to the proposed scope of work for this Armory Projects.

- Watkins Design Works, of Charleston WV, specializing in space planning, interior design, and furnishings and equipment selection, and LEED consulting services.
- Terradon Corporation, a Nitro WV consulting engineering and land planning firm who will provide site / civil and utilities engineering design services.
- Tower Engineering, a Pittsburgh PA consulting engineering firm who will provide HVAC, electrical, plumbing and fire protection design services.

Design Schedule

A master project schedule will be prepared to reflect all of the work tasks for the project organized by design phase and showing timelines and milestone dates for all tasks. We will also show the organization/individual responsible for the task. It will be organized as a horizontal bar chart. The schedule will be tested at critical intervals and measures taken to assure the schedule is maintained. Work efforts are tested against progress so that potential conflicts and

delays can be detected quickly and appropriate action taken immediately to preserve scheduled milestones.

Construction Documents Phase

Upon Owner approval of the selected design approach for the various components of this project, the project team will prepare closely coordinated construction drawings and final specifications detailing the quality levels for materials and systems needed for bidding and construction. The design team will also incorporate into the Construction Documents the design requirements of authorities having jurisdiction over the project, including but not limited to the Americans with Disabilities Act, applicable state and local building codes, ordinances, and standards, and any standards provided by the Owner.

The design team will assist the Owner to develop and prepare bidding and procurement information, the contract for construction, as well as the conditions of the contract for construction. All of these documents will be contained within the final Project Manual to be released to potential contractors.

The project cost estimate will be prepared reflecting the work described in the Construction Documents along with appropriate strategies to deal with any cost issues which may arise. The completed Construction Documents package will be submitted to the Owner and authorities having jurisdiction for review and approval.

Project Approach (continued)

Bidding Phase

Williamson Shriver Architects will assist the Owner as necessary in the advertising of the project for bidding. To further competitive bidding, we will actively market the project to contractors known to specialize in work consistent with the project scope. We will assist the Owner as needed in conducting the bid opening. On behalf of the Owner, we will evaluate the bids received and delineate any options for award, and provide our recommendation as to the award for a contract for construction that is in the best interest of the Owner.

Contract Administration Phase

The construction phase may be a small portion of an architect's fee, but this phase plays a large role in our success. After the commencement of construction, Steve Gibson will take the lead during the construction process. Mr. Gibson has 30+ years experience as a contract administrator with Williamson Shriver Architects on all project types. As such, he is well known and respected by many commercial contractors around West Virginia. During this phase, he will be assisted by numerous members of the design team who will continue their roles from the design phases.

Member(s) of the project team will be present on the project site at two-week intervals, will attend all construction progress meetings, will become generally familiar with the progress and quality of the work completed, and will determine in general that the work is being completed in accordance with the Contract Documents. On behalf of the Owner, we will reject any work not conforming with the Contract Documents.

In between site visits, Mr. Gibson, with assistance of project team members will review and take action on contractor submittals, process change orders and payment requests, issue field memos and clarifications as needed, pre-

pare punch lists, and certify completion of the project.

Post-Construction

Williamson Shriver Architects team will not walk away from a project at final completion. Rather, we continue to assist our clients with warrantee issues which may arise after completion. We will also conduct an eleven month walkthrough to observe any other warrantee issues, and also will conduct an interview with a committee of the Owner's staff and building users. This feedback will allow the project team to evaluate the performance of the final design, to determine whether the design adequately meets the Owner's needs, and gives our team members valuable input helping us to improve our knowledge for services on future projects.

Even after the expiration of the twelve month warrantee period, Williamson Shriver Architects continues to service clients on our completed projects. Time and again throughout our firm's history, we have assisted Owners of our completed projects years after occupancy on issues relating to the function of building components and systems. Never once have we invoiced for these services.

Staff and Experience

Name	Position	Years This Firm (Total Experience)
Gregory A. Williamson AIA LEED AP CEFP	Architect / President	30 (34)
Ted A. Shriver AIA LEED AP REFP	Architect / Vice President	30 (36)
Paul R. Kleykamp AIA LEED AP	Architect	5 (17)
Donald W. Beyer P. E.	Structural Engineer	25 (35)
Steven W. Gibson	Contract Administration	30 (36)
Dana K. Scarberry AIA Associate	Project Manager	26 (31)
Lori A. Phillips	Executive Assistant	16 (24)
Mike W. Nichols AIA Associate	Project Manager	12 (17)
Bill A. Ratcliffe REFP	Planning/Contract Administration	11 (41)
Gregory I. Martin AIA Associate	Intern Architect	7 (9)
Joyce A. Johnson	Financial Administrative Assistant	7 (12)
Andrew W. Crawford AIA Associate	Intern Architect	6 (7)
Sarah J. Petry	Marketing Assistant	5 (15)

Average tenure for WSA employees is 16 years with 300+ years of experience.

Gregory A. Williamson AIA LEED AP CEFPI (Architect/President)

Mr. Williamson attended the University of Tennessee, where he received his bachelor of architecture degree in 1981. His professional career began at Sverdrup and Parcel and later with Donald L. Moses Associates, both in Charleston. In 1983 he joined Gandee Thomas and Sprouse / GTS Partners as an architect and project designer and obtained his West Virginia registration as an architect in 1985.



In 1994, along with Ted Shriver, Mr. Williamson acquired the firm from founder Kent Gandee, and together they have continued the tradition of quality, client-focused architectural design for which the firm has been recognized. As a design partner, Mr. Williamson has designed such prominent and well-received projects as the LEED Gold Spring Mills Primary School, Caperton Center for Applied Technology at WVU-Parkersburg, and the Lodge and Conference Center at Chief Logan State Park. Additionally, he represented Williamson Shriver Architects in their role as associated architect on two prominent commissions in Charleston, the United States Federal Courthouse with architect SOM of New York, and the Clay Center for the Arts and Sciences with Kise Straw Kolodner Architects of Philadelphia.

Mr. Williamson is a member of the WV Board of Architects, appointed by Governor Underwood in 1999. He has active registrations in West Virginia, Virginia, Maryland, and Kentucky, and is a holder of an NCARB certificate. He is a past president of the West Virginia Society of Architects, has served as a part time instructor at the University of Charleston, and has also served as a juror on several local or regional design award programs.

In his spare time, Mr. Williamson is a musician and songwriter and enjoys recording his original music in his home studio.

Education:

University of Tennessee, 1981

B. Architecture

West Virginia State College, 1978

Winfield (WV) High School 1976

Registration:

Architect, WV (████), KY (████), MD (████), VA

(████), OH (████)

NCARB Certified (33662)

Green Building Certification Institute

LEED Accredited Professional (LEED AP)

Affiliations:

West Virginia Board of Architects 1999-Present

President 2003-2006, 2009-2011, 2014-Present

Secretary 2007-2009, 2013-2014

American Institute of Architects

American Institute of Architects - WV Chapter

President 1994 & 1995

Contractors Association of WV

Council of Educational Facility Planners Int. (CEFPI)

Certified Educational Facility Professional (CEFP)

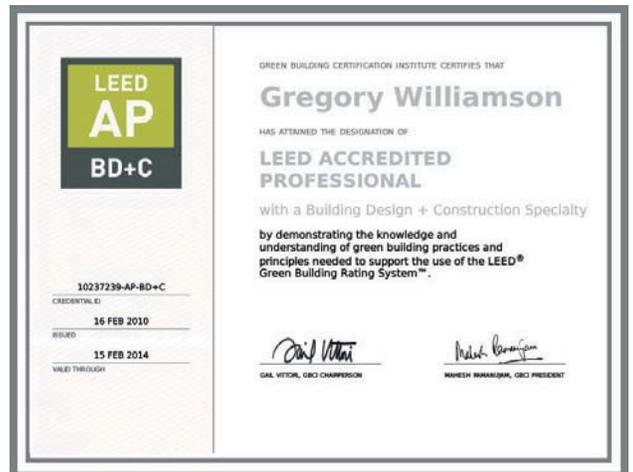
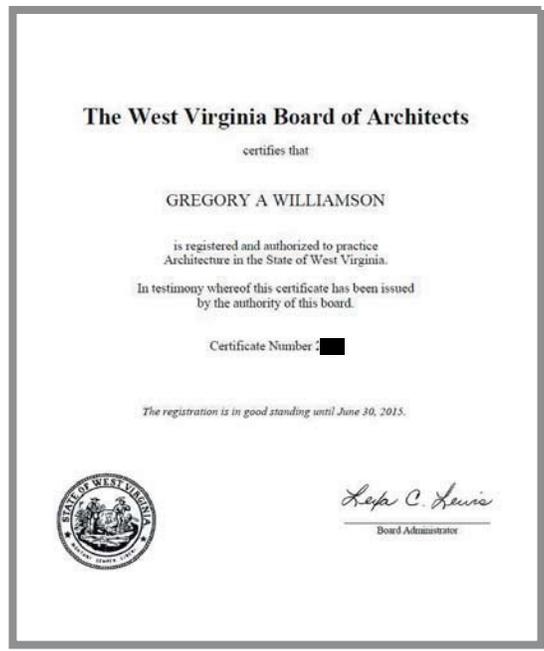
Putnam County Board of Zoning Appeals

Member - 1997 to 2001

US Green Building Council, (USGBC)



Gregory A. Williamson AIA LEED AP CEFP (Architect/President)



Ted A. Shriver AIA LEED AP REFP (Architect/Vice-President)

Mr. Shriver is an architect and Vice President of Williamson Shriver Architects and is responsible for the office-wide coordination and production of contract documents. He brings to the firm 30 years of architectural experience, and his primary responsibility is to ensure that appropriate production and support resources are applied to each project. Mr. Shriver's career began in 1979 with other local firms, but he has been with the firm since 1984 with partner Greg Williamson.



Office management, marketing and construction administration on smaller scope projects add to his daily responsibilities. He also oversees the firm's computer system, including evaluation and installation of new technology. He has extended this computer expertise to an understanding of the utilization and implementation of technology in school facilities and attends the Council of Educational Facility Planners' Technology Conferences. Since 2005, Mr. Shriver has focused on establishing guidelines for our designs on implementing safe schools and monitoring systems.

Mr. Shriver is active in the Council of Educational Facility Planners International especially in the Southeast Region. In 2003, he was one of the founding members of the West Virginia Chapter and served as their President from 2004-2007. He has also served as the Southeast Director since 2002.

Education:

Fairmont State College, 1979
A.S. Architectural Technology
South Charleston High School 1977

Registration:

Architect, WV [REDACTED] OH [REDACTED], MD [REDACTED]
Green Building Certification Institute
LEED Accredited Professional (LEED AP)

Affiliations:

West Virginia State Fire Commission, 2009-Present
Code / Regulatory Committee, Chair 2009-Present
American Institute of Architects
American Institute of Architects WV Chapter
Executive Committee 2008-2013
Treasurer 2008-2013
Boone Career and Technical Center, Advisory Council
Council of Educational Facility Planners Int. (CEFPI)
Southeast Region Alternate Director 2002-2003
Southeast Region Director 2003-Present
Recognized Educational Facility Professional (REFP)
Contractors Association of WV
Kanawha Valley Builders Association
International Code Council
National Fire Protection Association
South Charleston Board of Health
United States Green Building Council



Paul R. Kleykamp AIA LEED AP (Architect)

Mr. Kleykamp joined Williamson Shriver Architects in 2011 and serves as a Project Architect / Manager. He is a registered architect and a LEED accredited professional with over 18 years of experience on a wide range of project types including higher education, K-12 education, research facilities, military, commercial, and cultural.



Prior to Williamson Shriver Architects, Mr. Kleykamp held positions in two District of Columbia firms and worked as Project Architect on several large and notable projects including the FDA/GSA Center for Biometrics Evaluation and Research in White Oak MD and the National Geospatial Intelligence Agency Facility in Fort Belvoir, VA.

In his spare time, Ray is an artist and enjoys creating striking compositions in mixed media.

Education:

University of Kentucky
B. S. - Architecture - 1996

Registration:

Architect, West Virginia No. [REDACTED]
NCARB Cert. No. [REDACTED]
Green Building Certification Institute
LEED Accredited Professional (LEED AP)

Previous Employment:

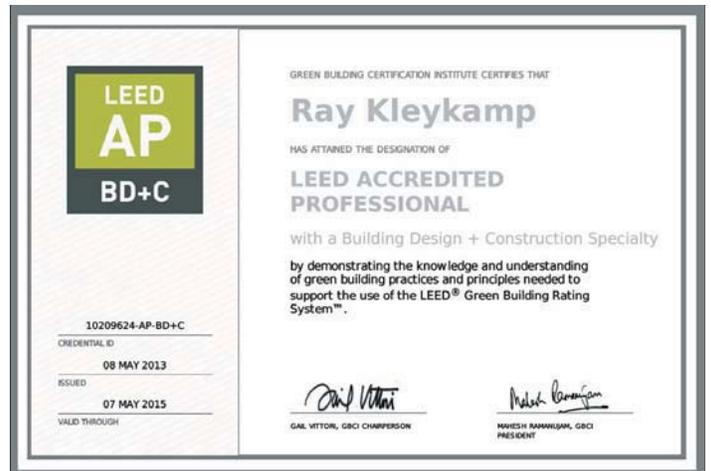
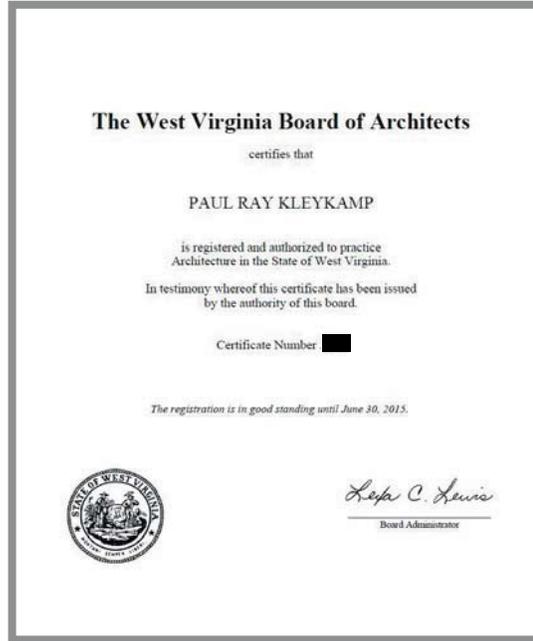
Bowie Gridley Architects
2009-2011
Kling Stubbins
2008-2009
Edward Tucker Associates
1996-2007

Affiliations:

American Institute of Architects WV Chapter
National Council of Architectural Registration Boards
US Green Building Council, (USGBC)



Paul R. Kleykamp AIA LEED AP (Architect)



Donald W. Beyer P.E. (Structural Engineer)

Mr. Beyer is responsible for the coordination of structural design for all of Williamson Shriver Architects projects, and personally designs the structural systems for most of the firm's projects. He coordinates and integrates his design work with our in-house architectural designs as well as with mechanical and electrical engineering design performed by our consultants. He is also involved with the production of details and specifications for a project's structural systems and materials.



Mr. Beyer's close involvement with the project architect provides for the smooth integration of the structural system into the project while maintaining the aesthetics of the architect's design. His availability for immediate consultation is an asset to the design team. Mr. Beyer draws from his years of experience as a structural steel detailer, a structural draftsman, and engineering technician within the Charleston area.

In addition to his structural responsibilities, Mr. Beyer also serves as production coordinator for all project disciplines, ensuring that appropriate staff is in place to assure on-time completion of design work.

Mr. Beyer is an avid whitewater paddler, and currently sits on the WV Whitewater Commission, appointed by Governor Wise in 2005

Education:

WV Institute of Technology 1997
 B. S. Civil Engineering
 WV Institute of Technology 1978
 A. S. Drafting & Design Eng. Technology

Registration:

Professional Engineer, WV [REDACTED]

Previous Employment:

Kelley, Gidley, Blair and Wolfe Engineers
 1986 - 1990
 W. C. Haworth, Structural Engineers
 1984 - 1986
 Union Carbide Corporation
 1979 - 1983
 West Virginia Steel Corporation
 1978 - 1979

Affiliations:

American Society of Civil Engineers
 American Institute of Architects
 American Institute of Architects WV Chapter
 Professional Affiliate Member

Certifications:

American Canoe Association
 Swiftwater Rescue Instructor



Steven W. Gibson (Construction Administration)

Mr. Gibson is responsible for contract document administration and field observation during the construction phase of a project. His duties include shop drawing review, attending construction conferences, compiling construction observation reports, and serving as liaison between owner and contractor.

Prior to joining the staff in 1985, Mr. Gibson's experience was primarily in the engineering fields. He has participated in the design, project management and construction of numerous industrial, commercial, public housing and public works facilities since 1970.

Mr. Gibson has also worked for a large local construction firm as an estimator. This employment allows him to bring a unique knowledge and understanding of the contractors' perspective toward construction projects to the firm.



Education:

West Virginia State College, 1971
B.S. Industrial Technology

Affiliations:

American Institute of Architects
American Institute of Architects WV Chapter

Previous Employment:

Carlton Construction Company
1984 - 1985
Randolph Engineering
1977- 1984
Swindell-Dressler Engineering
1974 - 1977
JH Milam Engineering
1969 - 1974



design for defense

Williamson Shriver Architects, Inc. has gained our experience in facilities for defense in part through the projects listed here:

Armed Forces Reserve Center Renovations

Clarksburg, West Virginia

Interior renovations of approximately 4,000 square feet including toilets, locker rooms, and mezzanine railing replacement.

Armed Forces Reserve Center Renovations

Weston, West Virginia

Interior renovations of approximately 500 square feet including toilets and locker rooms.

Armed Forces Reserve Center

Huntington, West Virginia

New approximately 67,000 square foot reserve center located at Tri-State Airport.

Army Reserve Training Center and Maintenance Facility

Jane Lew, West Virginia

Construction documents for a new 9,000 square foot training center and a 1,600 square foot operations maintenance and support facility for the U.S. Army Corp. of Engineers.

Army Reserve Training Center

Clarksburg, West Virginia

Construction documents for a new 16,000 square foot training center for the U.S. Army Corp. of Engineers.



Design for Window Replacement

Williamson Shriver Architects, Inc. has gained our experience in window replacement in part through the projects listed here:

- Berkeley Springs High School Arts and Humanities Building**
- Berkeley Springs High School Main Building**
- Burnsville Elementary School**
- East Hardy High School**
- Fred Eberle Career Center**
- Martinsburg North Middle School**
- Martinsburg South Middle School**
- Moorefield Elementary School**
- Moorefield High School**
- Nitro Elementary School**
- Poca Elementary School**
- Scott Teays Elementary School**
- Winfield Elementary School**



Armed Forces Reserve Center

Huntington, West Virginia



Owner: United States Army Reserve National Guard

Project Team: Williamson Shriver Architects
Responsible Partner: Ted. A. Shriver, AIA, LEED AP
Structural Design: Donald W. Beyer

Project Data:
Square Footage: 86,896
Project Cost: \$8.4 Million
Year Occupied: 1995
Project Scope: New Construction



Army Reserve Center

Jane Lew, West Virginia



Owner:	United States Army Corps of Engineers
Project Team:	Williamson Shriver Architects
Responsible Partner:	Ted. A. Shriver, AIA, LEED AP
Structural Design:	Donald W. Beyer
Project Data:	New Construction
Square Footage:	11,256
Project Cost:	\$2.6 Million
Year Occupied:	1997
Project Scope:	New Construction



Army Reserve Center

Clarksburg, West Virginia



Owner:	United States Army Corps of Engineers
Project Team:	Williamson Shriver Architects
Responsible Partner:	Ted. A. Shriver, AIA, LEED AP
Structural Design:	Donald W. Beyer
Project Data:	New Construction
Square Footage:	26,288
Project Cost:	\$6.4 Million
Year Occupied:	1996
Project Scope:	New Construction



South Charleston Fire Station #1

South Charleston, West Virginia



Owner: City of South Charleston
Mayor Frank Mullens
Carlton D. Lee, City Manager

Project Team: Williamson Shriver Architects
Responsible Partner: Ted. A. Shriver, AIA, LEED AP
Project Designers: Ray Kleykamp / Greg Williamson
Project Manager: Ray Kleykamp

Project Data:
Square Footage: 10,115
Year Occupied: Anticipated 2016
Project Scope: Design for a new facility to replace existing aging fire station located within downtown South Charleston. The building includes a three vehicle bays, living quarters for full-time staff, support spaces, and an attached administrative office for the City Fire Chief. Construction is anticipated to commence in Summer of 2015.



South Charleston Fire Station #3

South Charleston, West Virginia



Owner: City of South Charleston
Mayor Frank Mullens
Carlton D. Lee, City Manager

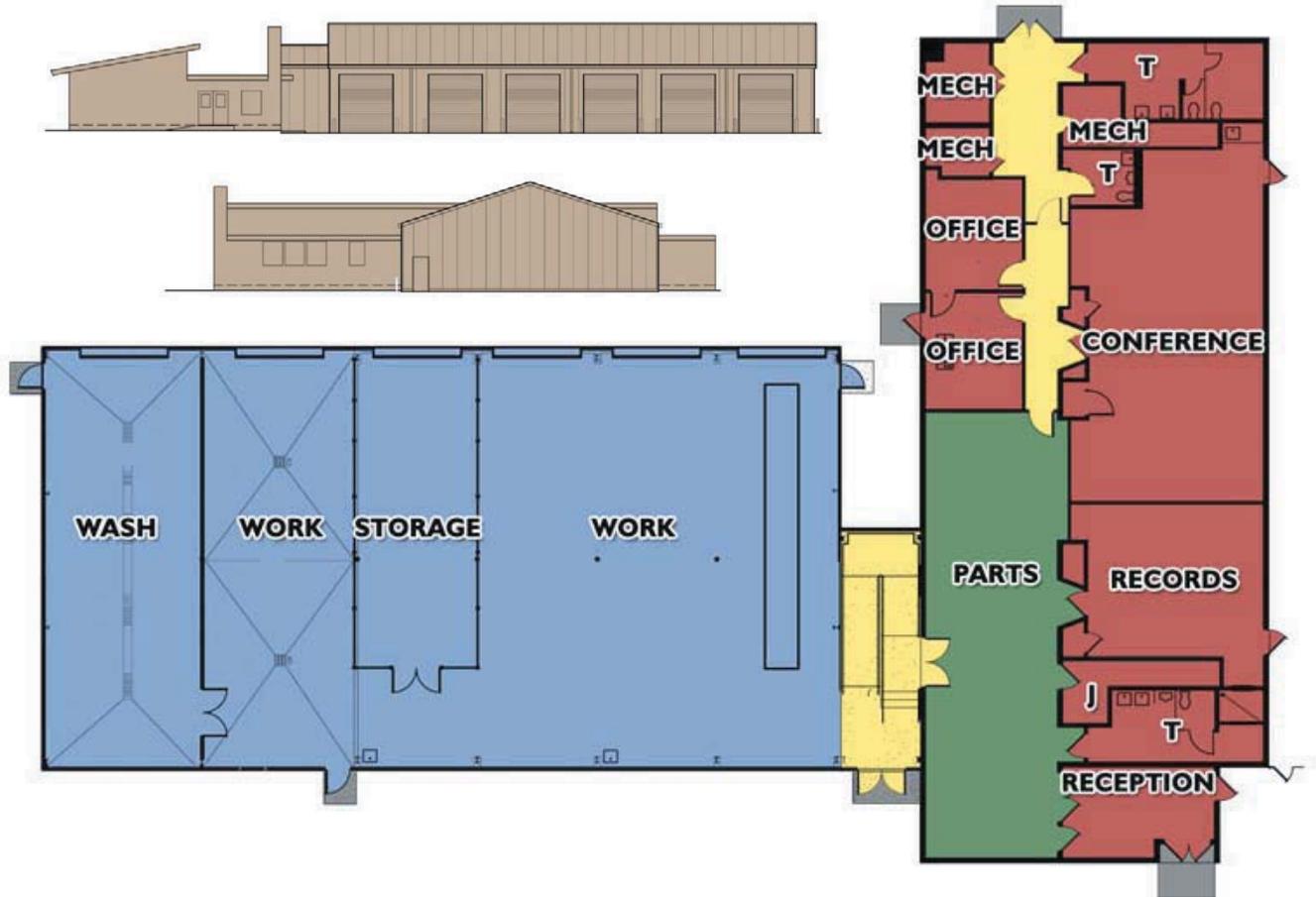
Project Team: Williamson Shriver Architects
Responsible Partner: Ted. A. Shriver, AIA, LEED AP
Project Manager: Ray Kleykamp

Project Data:
Square Footage: 3,700
Year Occupied: 2013
Project Scope: Newly constructed facility to replace existing aging fire station located within a hilly residential neighborhood. The building includes a single vehicle bay, living quarters for full-time staff, and support spaces.



Brooke County Bus Garage

Wellsburg, West Virginia



Owner: **Brooke County Board of Education**

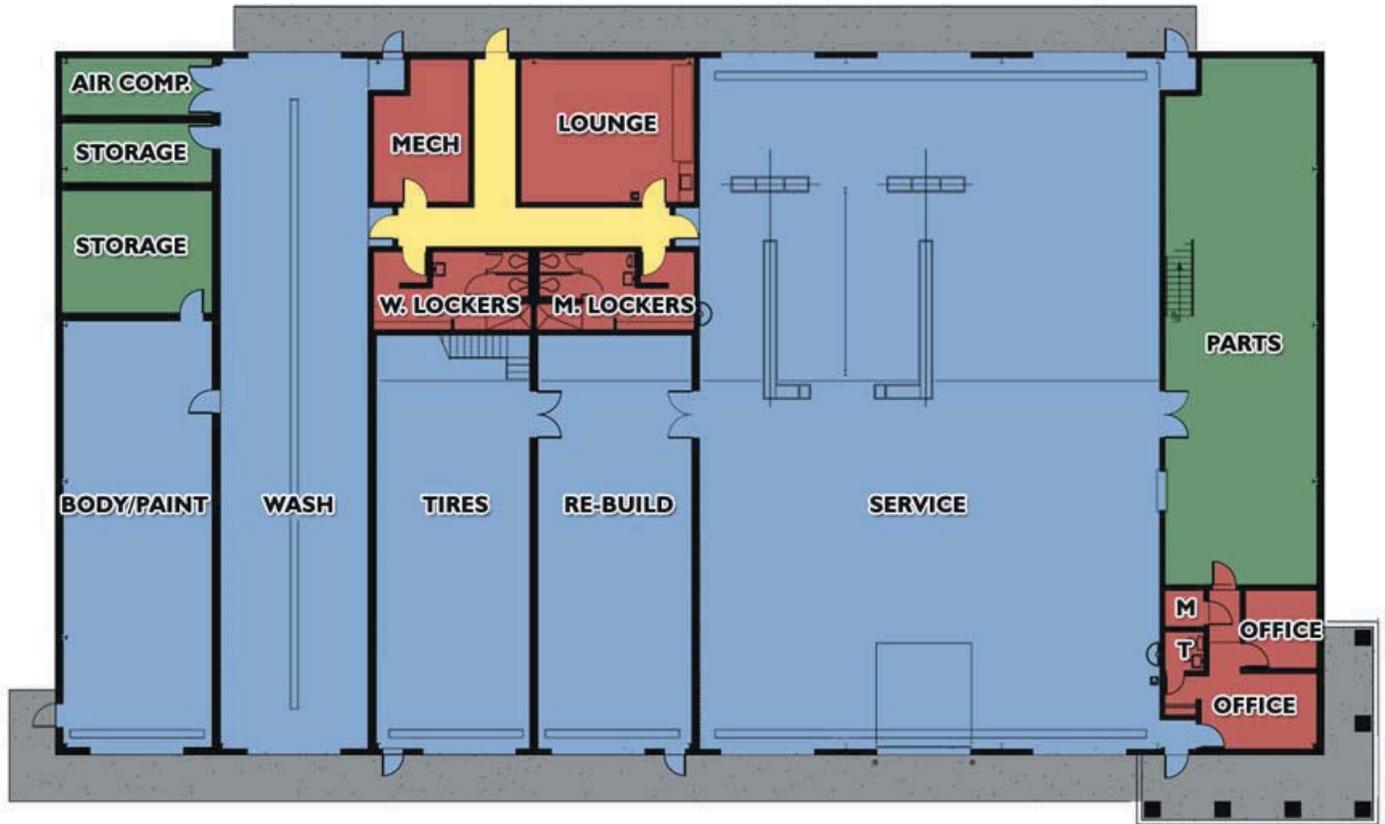
Project Team: **Williamson Shriver Architects**

Project Data:
 Square Footage: **6,000 Addition 4,700 Renovation**
 Year Occupied: **1993**
 Project Scope: **Garage Addition and Office Renovation**



Marshall County Transportation Facility

Moundsville, West Virginia



Owner: Marshall County Board of Education
Project Team: Williamson Shriver Architects
Project Data:
Square Footage: 14,500
Year Occupied: 1986
Project Scope: New Construction



Scott Teays Elementary School Addition and Renovations

Scott Depot, West Virginia



Owner:

Putnam County Board of Education
Mr. Harold "Chuck" Hatfield, Superintendent

Project Team:

Williamson Shriver Architects, Inc.

Responsible Partner:

Gregory A. Williamson, AIA, LEED AP

Structural Design:

Donald W. Beyer, PE

Project Data:

Square Footage:

9,645

Project Cost:

\$3.9 Million

Year Occupied:

2010

Funding:

SBA and Local

Project Scope:

Major Addition and Renovations - The existing Scott Teays Elementary School consisted of a single building constructed in four sections from the early 1950s through the 1970s. The mechanical, electrical systems and other building components were in poor shape at the start of this project. Additionally, many students were located in six outside portable classrooms. This project included a new classroom / office / media center addition to eliminate the portables, and a complete renovation and modernization throughout the existing building. The project also included an 'International School' classroom component for numerous Japanese students living in the region.



Winfield Elementary School Additions & Renovations

Winfield, West Virginia



Owner: Putnam County Board of Education
Harold H. "Chuck" Hatfield, Superintendent

Project Team: Williamson Shriver Architects, Inc.
Responsible Partner: Gregory A. Williamson, AIA, LEED AP
Structural Design: Donald W. Beyer, PE

Project Data:
Square Footage: 24,800 New
39,696 Renovated
Project Cost: \$11.5 Million
Year Occupied: 2014

Funding: Local and SBA
Project Scope: Addition and Renovation - This project included multiple additions as well as complicated phased renovations to an existing elementary school. The additions included a new administrative office, media center, toilets, 12 classrooms, and an expanded dining room. Renovations occurred with the building fully occupied throughout construction over part of two consecutive school years.





Berkeley Springs High School

Berkeley Springs, West Virginia



Owner: Morgan County Board of Education
Dr. Steve Paine, Superintendent

Project Team: Williamson Shriver Architects, Inc.
Responsible Partner: Gregory A. Williamson, AIA, LEED AP
Structural Design: Donald W. Beyer, PE

Project Data:
Square Footage: 114,739
Capacity: 525 Students
Project Cost: \$5.2 Million
Year Occupied: 2001
Funding: SBA and Local
Project Scope: Addition & Renovation



references

This page contains a list of references for your information. Please feel free to contact any of the following at your convenience:

Mr. O. Eugene “Gene” Kitts

Alpha Natural Resources
Julian, WV
Office: 304-369-8500

Dr. Mark Manchin

Former Executive Director
School Building Authority of WV
Current Contact Information
Office: 304-326-7300

Governor Earl Ray Tomblin

Office of the Governor
State Capitol
1900 Kanawha Boulevard, East
Charleston, WV 25305
Office: 304-558-2000

Mr. Oshel Craigo, CEO

Better Foods, Inc.
209 First Avenue, South
Nitro, WV
Office: 304-722-3511
Home: 304-586-3017
Mobile: #2-304-550-2898

Mr. Richard A. Robb

Former Mayor
City of South Charleston
South Charleston, WV
Home: 304-744-8231

Honorable Mayor Mullens

City of South Charleston
South Charleston, WV
Office: 304-744-5301
Mobile: 304-389-1275



Curriculum Vitae

Jill M. Watkins, Principal



Education

Bachelor of Science in Interior Design.....May 1993
The University of Tennessee, Knoxville CIDA Accredited

Certifications / Accreditations

National Council for Interior Design Qualification (NCIDQ) Oct 1997
LEED Accredited Professional BD+C..... Apr 2003

Community Involvement / Memberships

U.S. Green Building Council WV Chapter Chair
Leadership Kanawha Valley2014-2015 Participant
Charleston Area Alliance GROW Program..... 2015 Participant
American Institute of Architects WV Chapter Professional Affiliate Member
Sustainability Institute at BridgeValley..... Advisory Council Chair
Charleston Area Alliance..... Member
American Society of Interior DesignersProfessional Member
U.S. Green Building Council..... National Organizational Member

Previous Experience

ZMM Architects and EngineersMay 2008 – Dec 2013
Interior Designer/Sustainability Coordinator..... Charleston, WV
In this dual role, Jill worked alongside project architects in developing comprehensive finish and furniture designs, as well as with all project team members on the firm’s LEED projects.

CubellisDec 2005 – May 2008
Senior Interior Designer Boston, MA
Jill was responsible for design of the firm’s Boston headquarters, which received LEED–CI Gold Certification in August of 2009. She was also a key team member in the design of Gillette’s renovated global headquarters and subsequent tenant redistribution in their former lease space.



- Wolf Maison Limited..... Feb 2004 – Aug 2005
Interior Designer Cleveland, OH
As interior designer for this architectural start-up, Jill expanded her experience into dental office design and high-end residential projects, along with additional corporate work. She also provided LEED assistance to Cleveland State University in the form of drawing and specification reviews and recommendations for the new Recreation Center; the building is LEED Silver Certified.
- Doty & Miller Architects May 2003 – Feb 2004
Interior Designer Cleveland, OH
For one of Cleveland’s greenest architectural firms, Jill provided sustainable interior design for a variety of project types, including healthcare, public and nonprofit organizations.
- URS Corporation Nov 1999 – Feb 2003
Senior Interior Designer Cleveland, OH
Jill participated among teams of interior designers, architects and engineers to work on secondary schools, higher education, and public projects.
- KA, Inc. Architecture Apr 1998 – Nov 1999
Interior Designer Cleveland, OH
Jill went to KA after their purchase of Triad Design in 1998. As part of the Corporate Studio, she gained experience in the design of corporate headquarters, but also assisted architects with malls and big-box retail store design and documentation.
- Triad Design Interiors Aug 1996 – Apr 1998
Interior Designer Cleveland, OH
As a designer with this small interior design firm, Jill was involved in many different project types, including corporate offices, restaurants, and private suites for the new Cleveland Browns football stadium.
- Koster & Associates Architects..... Mar 1995 – Aug 1996
Interior Designer Cleveland, OH
Koster & Associates specialized in library design throughout the Midwest. Jill was responsible for interior finishes, furniture design and custom millwork design and documentation.
- Capitol Business Interiors May 1993 – Feb 1995
Interior Designer Charleston, WV
After working at CBI in the summer months while in college, Jill worked as a full-time designer supporting the salespeople in the firm’s many public and private projects, including Union Carbide’s Building 6000 and the initial renovation of One Station Place.



Professional References

COL David Shafer
West Virginia Army National Guard
304.382.7861 mobile
david.p.shafer.mil@mail.mil

Erica Boggess, Acting Executive Director
West Virginia Housing Development Fund
5710 MacCorkle Avenue, Charleston, WV
304.391.8638, ericaboggess@wvhdf.com

LTC Craig Lambert, Retired
West Virginia Army National Guard CFMO
304.561.7501 mobile

Alan Engelbert, Director
Kanawha County Public Library
123 Capitol Street, Charleston, WV
304.343.4646 ext. 1241
alan.engelbert@kanawhalibrary.org

MG Melvin Burch, Retired
West Virginia Army National Guard CFMO
304.727.0074 home

Representative Projects

West Virginia Army National Guard

Clarksburg Armory / Weston Armory Interior Renovations
5 Armory Road, Clarksburg, WV 26301 / 40 Armory Road, Weston, WV 26452
Architect: Williamson Shriver Architects
Project Manager: Jim Skaggs, WVARNG CFMO, 304.561.6550

Renovations to the armories in Clarksburg and Weston are currently under construction. Interior finish and ADA upgrades to the shower and locker rooms were designed, and Jill was responsible for documentation of existing conditions, overall drawing production, lighting design, and finish selections.

Joint Interagency Training and Education Center / ACP / Fallen Soldier Statue
1001 Army Road, Kingwood, WV 26537
Architect: ZMM Architects & Engineers
Project Manager: Todd Reynolds, WVARNG CFMO, 304.561.6445

As a joint venture between ZMM and AECOM, the *Joint Interagency Training and Education Center* at Camp Dawson was designed to provide a 24/7 operations center and expanded billeting facility. Jill was responsible for interior design of the Billeting addition, including the main lobby, Liberty Lounge, signage, millwork, billet rooms, and display area for the Fallen Soldier Statue; coordination of finishes with the AECOM team for all areas of the project, including the ACP; and assisted in LEED coordination. She played an integral role in achieving SSc8 Light Pollution Reduction as the main author of an appeal to the USGBC. The project is on track to receive LEED Gold Certification.



Jackson County Armed Forces Reserve Center
8832 Point Pleasant Road, Millwood, WV 25262
Architect: ZMM Architects & Engineers
Project Manager: Greg Thaxton, WVARNG CFMO, 304.561.6445

The *Jackson County Armed Forces Reserve Center* is designed to house several units, with an expanded drill hall that is used for various community events. Jill worked closely with the architect to develop a comprehensive interior color palette that works seamlessly with the exterior materials, as well as interior details, lighting design, and LEED coordination for the project, including the maintenance building. She designed enhanced acoustical treatments for the drill hall that expand its functionality as a large group space. The AFRC is designed to meet LEED Silver certification.

Morgantown Readiness Center
Morgantown Municipal Airport, Morgantown, WV 26505
Architect: ZMM Architects & Engineers
Project Manager: Darryl Sears, WVARNG CFMO, 304.561.6445

As home to the 249th Army Band and other units, the *Morgantown Readiness Center* features an auditorium, practice rooms, offices, classrooms and drill hall. Jill was responsible for interior design of all areas, coordination with the acoustic consultant and LEED coordination. The project is designed to meet LEED Silver certification.

Logan-Mingo Readiness Center
James A. "Buck" Harless Industrial Park, Holden, WV 25625
Architect: ZMM Architects & Engineers
Project Manager: Greg Thaxton, WVARNG CFMO, 304.561.6445

Housing the military police and other units in the heart of coal country, the Logan-Mingo Readiness Center is currently under construction. Jill was responsible for all aspects of the interiors for public areas, offices, classrooms, and drill hall. The interior design includes a darkly painted "coal seam" that is seen throughout the public spaces and combined with bright accent colors. She was also responsible for LEED coordination; the project is designed to meet LEED Silver certification.



Capabilities Statement



Jill M. Watkins, Principal

Core Competencies

We provide all aspects of interior design service, including:

- Programming
- Schematic design, space planning, and design development
- Contract and bid documents
- Interior construction administration
- Lighting design
- Custom casework and millwork design
- Furniture design
- LEED Green Building Rating System consulting

Differentiators

With over 22 years of commercial interior design experience and 7 years of recent design experience for the WV Army National Guard, we are uniquely qualified to provide interior design services for the maintenance building at the Moundsville Armory. Interior design for the military requires a detailed understanding of mission, space program, building codes, and owner expectations. As West Virginia’s only 100% commercial interior design firm, Watkins Design Works brings this level of detail to the WVARNG, as well as the creativity needed to provide functional, attractive interior spaces that meet project goals and objectives.

Corporate Data

Watkins Design Works is a commercial interior design and green building consulting firm, established in January 2014. Our work is focused in West Virginia and surrounding states.

DUNS Number..... 079258297
 CAGE Code 71X86
 NAICS Codes 541410, 541620
 EIN 46-4275408

Small Business Administration Certifications:
 Woman-Owned Small Business
 Economically Disadvantaged Woman-Owned Small Business

State of West Virginia Vendor Certifications:
 WV Oasis Vendor Code 190493
 Small Business and Woman-Owned Business

Contact Information

Watkins Design Works, LLC
 Jill M. Watkins, LEED AP BD+C, NCIDQ, ASID, Principal
 1116 Smith Street, Suite 407, Charleston, WV 25301
 304-553-7002 office
 jill@watkinsdesignworks.com
 http://www.watkinsdesignworks.com

Corporate Overview



TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For the past 25 years TERRADON staff has provided a wealth of engineering solutions blanketing the Appalachian and Mid-Atlantic region with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

The second-generation, family-owned business has built a strong reputation by providing flexible, cost effective design solutions and maintaining the highest level of customer service. The firm has been recognized through numerous awards from professional organizations and agencies including the American Society of Civil Engineers, State Highway Departments, the Department of Environmental Protection and the American Institute of Architects.

TERRADON's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

TERRADON is the largest woman-owned engineering firm in West Virginia. TERRADON is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council and the National Women Business Owners Corporation.



Locations

TERRADON maintains three WV locations: headquarters near Poca/Charleston, WV and offices in Lewisburg, and Charlton Heights. A fourth office is located in Columbus, OH. With five locations, TERRADON is equipped to meet any engineering design needs for this project.

Qualifications



Land Development covers a broad swath of TERRADON's service offerings and sees a large percentage of its annual revenue from repeat clients or referrals. The group is composed mainly of Landscape Architects and CAD designers who frequently team with every other department within the company.

TERRADON's Land Development department collaborates with public and private entities and has a strong presence in the recreation, public/civil, educational and commercial development sectors. TERRADON is recognized as a leader in providing site design and land planning services. The firm's professional engineers work closely with the client from the project's initial phase through a schematic design, construction documents and project delivery. TERRADON's Landscape Development Group remains on the forefront of sustainable design, providing LEED Accredited Professionals to clients. Projects utilizing sustainable design best practices aid clients in significantly reducing energy costs on projects.

TERRADON's Land Development Group works in a variety of markets including: Civic/Public, Parks/Recreation, Commercial/Industrial, K-12 Education, Higher Education and Medical.

Projects include: Master planning, recreational planning, funding agencies assistance, economic development planning, surveying, engineering, architecture, historical preservation construction administration and inspection.

LAND DEVELOPMENT SERVICES

- Master Planning
- Presentation Drawings/Renderings
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Construction Observation



TECHNICAL EXPERTISE - KEY PERSONNEL

Greg Fox, ASLA, LEED AP **VP Land Planning & Development**

Greg Fox has overseen the Land Development Department at TERRADON since its inception in 2000. He offers more than 25 years of industry experience, providing design services to a variety of markets. During his tenure, the Land Development Group has completed more than one hundred K-12 Educational projects and dozens of Higher Education projects.

Under his guidance, the group has been the recipient of Engineering Excellence awards from the West Virginia Association of Consulting Engineers, and the Gold Award for Engineering Excellence from the American Council of Engineering Companies. Additionally, the Land Development Group has been recognized numerous times for Merit Awards by the West Virginia Chapter of American Society of Landscape Architects. Fox is a registered Landscape Architect in West Virginia, Ohio, North Carolina, South Carolina, Pennsylvania and Virginia. He is an active member of the American Society of Landscape Architects. Fox received degrees in Landscape Architecture and Planning from West Virginia University.

Jim Nagy, PE **Utility Infrastructure**

Nagy performs Civil Engineering related to water and waste water projects at TERRADON. He specializes in the design of water treatment and distribution systems. He has more than 25 years of on-hand experience providing engineering for the largest private water company in West Virginia. He earned a B.S. in Civil Engineering from West Virginia University. His primary focus is on management of water and wastewater projects. He also performs design work related to water distribution systems and sewage collection systems.

Shawn Gray, ASLA **Landscape Architect**

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Peter J. Williams, ASLA **Landscape Architect**

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 13 years of experience at TERRADON and more than 22 years of overall experience.

Robert Thaw, PS **VP Survey and Mapping**

Robert Thaw, Vice President of Survey and Mapping, oversees all TERRADON Survey services. TERRADON's survey group serves a diverse range of projects in support of TERRADON's service groups in addition to managing survey-specific clients. Thaw manages a staff of Professional Surveyors and Computer Aided Drafting (CAD) designers who provide mapping, construction layout, ALTA survey, topographic survey and boundary survey services. Thaw's leadership has been instrumental in TERRADON's prioritization of the use of modern technology, ensuring clients the most efficient and accurate results. Additionally, he is responsible for in-house design of commercial property sites, parking and utility easements, and review of project plans and base mapping creation. Thaw's group also provides as-built surveys, utility identification surveys and deformation monitoring of design features such as retaining walls and dams.

Bill Hunt, PG, LRS **VP Geo-Environmental, Materials Testing and Inspection**

Bill Hunt serves as Vice President of Geo-Environmental at TERRADON Corporation. He will oversee any environmental needs, permitting and direct work for geotechnical tasks and testing and inspection required of the project. Hunt offers relevant experience in environmental documentation, investigations, and coordination with federal, state, and local agencies. He prepares Environmental Impact Statements, Environmental Assessments, Section 4(f) Evaluations, and other environmental technical documents. He supervises and participates in work plan development, field surveys, on-site monitoring, data collection, impact analysis, subconsultant management, public meeting organization and group presentations.

PRIOR EXPERIENCE - WV National Guard, Safety/Fire Stations

WV Air National Guard, Yeager Airport Fire/Crash/Rescue Station, Charleston, WV

TERRADON Corporation, as a subconsultant, provided site civil engineering design for the WV Air National Guard at the Yeager Airport Fire/Crash/Rescue Station in Charleston, WV. TERRADON was a part of the design/build team and created civil engineering plans & specifications for the siting of this large, 6-bay drive-thru design station. The team worked with tight existing conditions and infrastructure to make the design work economically.



Fairmont Public Safety Building & Fire Station, Fairmont, WV

TERRADON Corporation, as a subconsultant, provided site civil engineering design for the Fairmont Public Safety Building in Fairmont, WV. The Public Safety Building houses the Fairmont Public Works Department, the Fire Department and the Police Department.

TERRADON services included: Geotechnical Engineering; Design and Boundary Survey, Full Site Engineering Drawings, Layout, Grading, and Drainage and Erosion Control.

TERRADON performed engineering services as a subconsultant to the architect. TERRADON engineers considered site layout options in order to maximize land use while minimizing earthwork and utility installations. TERRADON provided landscape and hardscape design as well.



PRIOR EXPERIENCE - First Responder Centers

Kanawha County Metro 911

TERRADON Corporation, as a subconsultant, provided site civil engineering design for the Kanawha County Commission 911 Call Center.

TERRADON services included:

- Design and Boundary Survey
- Full Site Engineering Drawings
- Layout
- Grading
- Drainage and Erosion Control



TERRADON performed engineering services as a subconsultant to the architect. TERRADON engineers considered site layout options in order to maximize land use while minimizing earthwork and utility installations, resulting in an end savings to the owner. TERRADON also designed parking, access, landscapes and hardscapes for the project. The Kanawha County Metro 911 Center is a central emergency hub who coordinates with 47 other agencies in emergency situations.



Lincoln County 911 Call Center

TERRADON Corporation, as a subconsultant, provided site civil engineering design for the Lincoln County Commission for the Lincoln County 911 Call Center. TERRADON performed engineering services as a subconsultant to the architect. TERRADON engineers considered site layout options in order to maximize land use while minimizing earthwork and utility installations. TERRADON provided landscape and hardscape design as well.



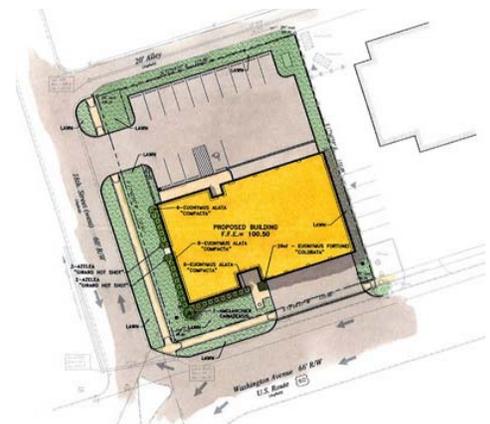
TERRADON services included:

- Design and Boundary Survey
- Full Site Engineering Drawings
- Layout
- Grading
- Drainage and Erosion Control

Cabell County EMS Stations

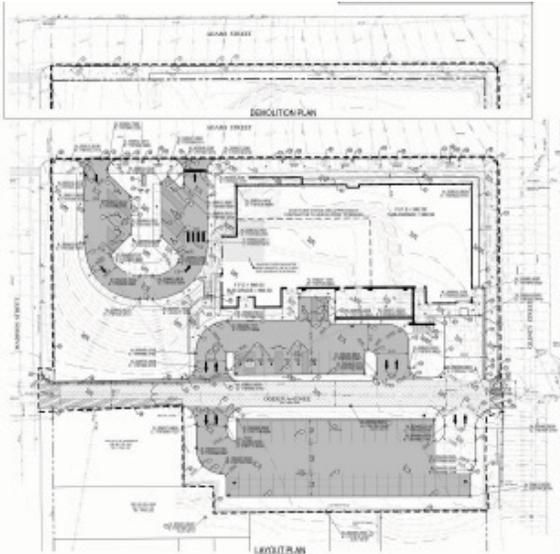
TERRADON Corporation, as a subconsultant, performed Site Civil Engineering Services for two Cabell County EMS Stations—one on Norway Avenue and the other in Westmoreland. TERRADON’S services included site civil engineering design for the following:

- Layout
- Grading
- Drainage
- Utilities
- Erosion and sediment control



PRIOR EXPERIENCE - Civil/Public Buildings

WV Department of Administration State Office Building, Fairmont, WV



TERRADON Corporation, as a subconsultant, is the Site/Civil consultant to the architect and also provided Environmental, Geotechnical and Survey services to West Virginia Department of Administration for the State Office Building located in Fairmont, West Virginia.

TERRADON Environmental team provided phase 1 and phase 2 Environmental site assessments (ESA) for the site, phase 2 ESA consisted of: soil and ground water sampling and pesticide wipe sampling. The team also conducted asbestos survey and lead-paint survey. For the project, TERRADON prepared quantities for bid documents and provided oversight for demolition and abandonment.

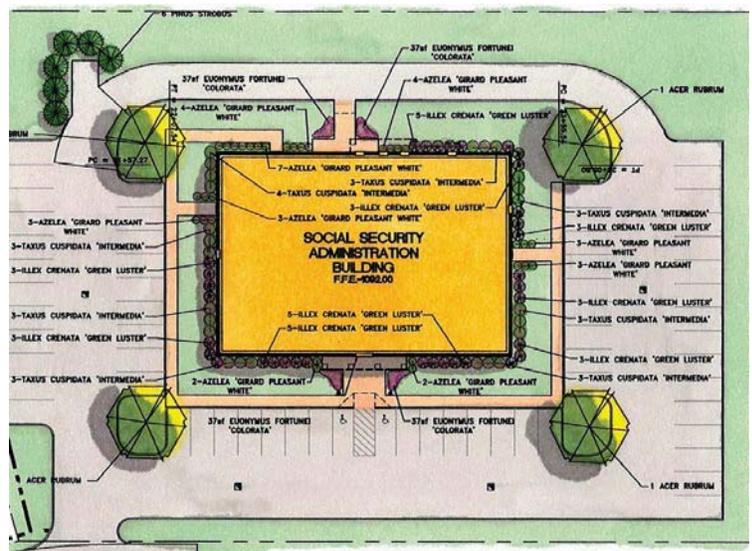
TERRADON Geotechnical experts conducted investigation of existing filled basements and foundation investigation and design of the Fairmont building site.

Social Security Administration Building, Logan, WV

TERRADON, as a subconsultant, Corporation provided site civil engineering design for the Social Security Administration Building in Logan, WV.

TERRADON services included:

- Design and Boundary Survey
- Full Site Engineering Drawings
- Layout
- Grading
- Drainage and Erosion Control



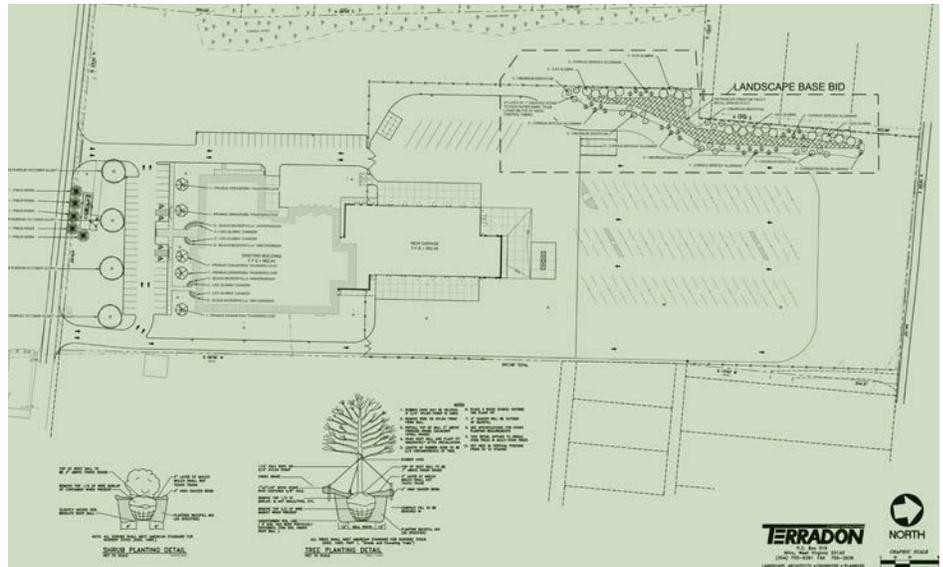
PRIOR EXPERIENCE - Transportation Storage/Dispatching Facilities

Cabell County Bus Garage

TERRADON Corporation, as a subconsultant, provided site civil design services for this major renovation project, which houses approximately 85 of Cabell County Schools' 120 buses and modernizes its transportation operations by offering better access to eastern and central schools in the county. The new facility includes storage space for the large fleet of buses, service and maintenance equipment and wash bays that meet new EPA standards. Construction took place in April 2013 on the new garage, which was located in Lesage, WV.

TERRADON services included:

- Civil Engineering
- Land Development
- Full Construction Documents
- Layout
- Grading
- Landscaping



Jefferson County Bus Garage

TERRADON Corporation, as a subconsultant, provided site civil design services for the Jefferson County Bus Garage. This facility is designed to provide parking for more than 200 buses and more than 200 cars. A fueling island, wash bay and new facility building also comprise the facility.

TERRADON services included:

- Civil Engineering
- Land Development
- Full Construction Documents
- Layout
- Grading
- Landscaping



Peter J. Williams, ASLA

Landscape Architect

“Pete” Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 13 years of experience at TERRADON and more than 22 years of overall experience.

Relevant Project Experience

- **Fire Stations, Medical, First Responder, Public Facilities**

- Yeager Airport Fire/Crash/Rescue Station
 - Fairmont Public Safety Building & Fire Safety Station

- **Higher Education**

- Marshall University Student Recreation Center
 - Marshall University Student Housing
 - Fairmont State Inner Campus Design

- **K-12**

- Hurricane High School Sports Fields, Additions & Renovations
 - Lakeside Elementary School Additions & Renovations
 - Eastwood Elementary School Additions & Renovations
 - Flinn Elementary School Additions & Renovations
 - Musselman High School Additions & Renovations
 - Martinsburg North Middle School Additions & Renovations
 - Jefferson Elementary School Additions & Renovations
 - A New Blue Ridge Primary School
 - Winfield Elementary School Additions & Renovations
 - A New Buffalo High School
 - A New Confidence Elementary School
 - Greenbrier West High School Additions & Renovations
 - A New Lewisburg Elementary School
 - A New Rainelle Elementary School
 - Eastern Greenbrier Junior High School Additions & Renovations
 - Mason Dixon Elementary School Additions & Renovations
 - Poca High School Additions & Renovations
 - A New Winfield Middle School
 - A New Poca Elementary / Middle School
 - A New Mingo Central High School & Athletic Complex
 - A New University High School & Athletic Complex
 - A New Mountain View Elementary School
 - A New Pikeview Middle School
 - A New Moorefield Intermediate School

- **Numerous Industrial, Commercial , Parks and Recreation Facilities**



Education

B.S. Landscape
Architecture
West Virginia University

Work Experience

2000 – Present
TERRADON Corporation

1992-2000

Chapman Technical Group
Registration

Affiliations

American Society of Landscape
Architects

West Virginia Chapter of
American Society of Landscape
Architects

Robert Thaw, PS

VP - Survey and Mapping

With more than 22 years of experience in a wide range of surveying projects, Robert Thaw serves as head of TERRADON's Survey and Mapping department. He organizes and supervises survey crews, reviews project plans and creates base mapping for various projects including noise barriers, interchanges, connectors, bypasses, sidewalks, bike paths and bridges. Thaw oversees all TERRADON survey activities, including: preparation of Right-Of-Way plans; the development of GPS static networks for aerial mapping in the design of roadways; identification of existing utilities and property lines; base image development and control placement for construction projects; and drafting of legal descriptions for ROW parcels.

Thaw has been directly responsible for survey and mapping services, including Right-Of-Way, on a number of notable transportation projects including:

- **Laurel Fork Campground Bridge**
TERRADON provided surveying and design engineering on a USDA Forest Service project in Randolph County, West Virginia. Surveyors led by Thaw provided Right-Of-Way services, including courthouse research, construction easements, and location of alignments. Additionally, provided topographic mapping, project control for construction, hydraulic cross sections and stream profiles.
- **Sedalia Arch Bridge**
Thaw oversaw survey services for the replacement of an existing concrete arch bridge with a 72' single span bridge. The bridge consisted of adjacent concrete prestressed box beams with a cast-in-place concrete deck. Survey services consisted of a topographic survey, ROW plans, construction control and legal description creation. Roadway design consisted of new bridge approaches and a designed detour. Drainage, maintenance of traffic and right-of-way plans were included in the scope of work.
- **Sleeth's Run Bridge**
Thaw provided Right-Of-Way services during the design for the replacement of an existing truss bridge in Lewis County, WV. The project included the design of a new 200' structure and approaches. Survey services consisted of a topographic survey, ROW plans, construction control and legal description creation.
- **Grade Road**
Thaw oversaw Right-Of-Way services for the new construction of two lanes adjacent to an existing two-lane roadway. Right-Of-Way services included Right-Of-Way Plans, legal descriptions, and questionnaires for take parcels.
- **St. Mary's Bypass**
Working for the WVVDOT, Thaw led transportation survey services for the relocation of WV 16 in Pleasants County, from Pleasants County Route 18 to WV 2 in Saint Mary's, West Virginia for approximately two miles of highway. The project included topographic mapping, survey control mapping, right-of-way and utility cost estimates and inventories.



Education

A.S., Survey Technology, 1981,
West Virginia Institute of
Technology

B.S., Surveying, 1985, West
Virginia Institute of Technology

Work Experience

TERRADON Corporation
1994-Present

Bowman Land Surveying
1992-1994

Dunn Engineers
1990-1992

Kelley Gidley Blair and Wolf
1988-1990

Pierson & Whitman
Architects and Engineers
1984-1986

Registration

Professional Surveyor,
West Virginia

Jim Nagy, PE
Senior Engineer

As a Senior Engineer at TERRADON, Jim Nagy's primary focus is on designing civil engineering projects for public and private development projects throughout West Virginia. Nagy specializes in the design of water distribution systems as well as sewage collection systems. Nagy offers decades of hands-on experience and has previously provided design engineering services for schools, commercial developments, residential developments, public utilities and more. He earned a B.S. in Civil Engineering from West Virginia University and is a Professional Engineer in the State of West Virginia.

Relevant Project Experience

- **School Projects**
Responsible for layout, design, and permitting of water and sewer lines for numerous school projects in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Schools include: Blue Ridge Community and Technical College, Blue Ridge K-12, Burnsville Elementary, Flatwoods Elementary, Davis Elementary, Sutton Elementary, Little Birch Elementary, Frametown Elementary, Buffalo High School, Clay-Battelle High School, Confidence Elementary, Jefferson Elementary, East Hardy High School, Eastwood Elementary, Flinn Elementary, Geary Elementary, Gilbert High School, Greenbrier West high School, Hampshire High School, Harpers Ferry High School and 19 additional schools.
- **Commercial Developments**
Responsible for layout, design, and permitting of water and sewer lines for numerous commercial developments in WV. Projects entailed coordination with PSDs, municipal water and sewer departments, State and Federal regulatory agencies for design of facilities. Developments include: Fairmont Federal Credit Union, Allegheny Energy Union (Fairmont), First Ward (Clendenin) Apartments, Milton Crossing, Tri-State Hotel and multiple convenience store sites throughout WV.
- **Charleston Replacement Housing**
Utility design, primarily water, sewer and stormwater, and coordination of overall site activities with the project developer for multi-unit housing development. Each phase entailed the design and layout of several hundred feet of water, sewer and stormwater line, including multiple connections with the utility providers, i.e., the Charleston Sanitary Board and West Virginia American Water, and applicable permit applications. Also responsible for construction monitoring and provision of as-built drawings as required by the respective utility providers.
- **Cathcart – Devonshire Development, Scott Depot, WV**
Designed sanitary sewer and water distribution system to serve more than 900 housing units in this private development.
- **Washington Woods Subdivision, Ravenswood, WV**
Designed more than 9,000 feet of water and sewer line and a 500 gpm fire pump water booster station to serve a 150 lot subdivision.
- **Sawmill Village, Snowshoe, WV**
Designed approximately 2,800 feet of 8" water line and sanitary facilities to serve the Sawmill Village development project in Snowshoe, WV.
- **Cabell County Water Main Extension Project**
Worked on design and layout of approximately 46,000 feet of water main for the Salt Rock PSD/WVAW. Responsible for bidding, contract award, and project management.
- **Putnam County Water Main Extensions**
Worked on design and layout of approximately 63,000 feet of water main and a booster pumping station for the Putnam County Commission/WVAW. Responsible for bidding, contract award, and project management.
- **Manila Ridge Water Main Extension Project**
Worked on design and layout of approximately 38,000 feet of water main for the Putnam County Commission/WVAW. Project has not received funding yet. However, will be responsible for bidding, contract award, and project management.



Education

B.S. Civil Engineering
West Virginia University

Work Experience

TERRADON Corporation
2007-Present

WV American Water
1991-2007

AWW SC
1984-1991

WV DNR
1982-1984

VTN, Inc. Consulting
Engineers
1978-1982

J.H. Milam Consulting
Engineers
1977-1978

WV DNR
1976-1977

WV Department of
Highways
1975-1976

Registration

Professional Engineer: WV

Bill Hunt, PG, LRS

Vice President of Geo-Environmental, Testing & Inspection

Bill Hunt is a Licensed Remediation Specialist and serves as Vice President of Geo-Environmental and Testing & Inspection services at TERRADON Corporation. Hunt offers relevant experience in environmental documentation, investigations, and coordination with federal, state, and local agencies. He prepares Environmental Impact Statements, Environmental Assessments, Section 4(f) Evaluations, and other environmental technical documents. He supervises and participates in work plan development, field surveys, on-site monitoring, data collection, impact analysis, subconsultant management, public meeting organization and group presentations.

Relevant Project Experience

Hunt has provided environmental management services on a wide variety of projects. His experience includes:

- NEPA Assessments/Clearances
- Phase I and II Environmental Site Assessments
- Section 401/404 Permitting
- Wetland Assessments and Delineations
- Environmental and Industrial Hygiene Sampling
- Environmental Audits and NEPA Assessments
- Risk Assessments
- Remediation Design
- Statistical Analysis of Soil and Groundwater data
- Spill Prevention and Best Management Practices Plan Preparation

Key Projects

- Conducted three Environmental Assessments and Environmental Screenings for proposed public school developments in West Virginia. These projects were involved with the National Park Service through the Land and Water Conservation Fund. These projects included assessment of NEPA considerations, WV SHPO, USFW RTE Species, USDA Prime Farmland, and wetlands.
- Conducted over 50 Phase I Environmental Site Assessments for the siting or cellular communication towers. These assessments included compliance with NEPA, SHPO and THPO considerations as required by the Federal Communications Commission, with FONSI.
- Conducted Form C Environmental Assessments for three runway extension projects located in West Virginia. These EAs were performed in conformance with the Federal Aviation Administration specification for projects that do not categorical exclusion criterion.
- Obtained 404, 401, PLC permits, project included performing cultural resource investigation oversight to determine if sites are eligible for or listed on the NRHP, endangered species survey oversight, wetland and stream mitigation plan oversight for of marina and retail development in Proctorville, Ohio.
- NEPA Environmental Study, West Virginia Regional Airport, Randolph County Airport, Mason County Airport, Upshur County Airport, Mingo County Airport.
- Obtained 404, 401, and Public Land Corp (DNR) permits, performed cultural resource investigation oversight to determine if sites are



Education

B.S. Environmental Science,
Morehead State University

M.A. Geography,
Ohio University

Work Experience

2010—Present
TERRADON Corporation
VP Geo-Environmental,
Testing & Inspection

2008—2010
NGE, LLC
Environmental Services Manager

2001—2008
Superior Marine Ways
Director, Environmental Health
& Safety

1991-2001
H.C. Nutting Company
Environmental Group Leader

1989—1991
PSARA Technologies
Environmental Services Division
Manager

1986—1989
Westinghouse
Environmental Scientist

eligible for or listed on the NRHP, endangered species survey oversight, wetland and stream mitigation plan oversight for construction of new elementary school in Raleigh County, West Virginia.

- Conducted wetland and stream assessment and prepared NWP application for emergency repair of a leaking natural gas pipeline located in Lincoln County West Virginia. Project involved field delineation of wetland areas, research into distribution of rare threatened and endangered species and WV SHPO file review for records of historic properties and recorded archaeologically significant sites.
- Obtained USACE Section 10 permits for several barge fleet and repairs areas on the Ohio River within the Huntington Harbor area.
- 40 Phase I Environmental Site Assessments (ESAs) for fast food franchise at locations in WV, OH, IN, MO, KS, MI and WI. 25 of these Phase I ESAs led to Phase II ESAs.
- Phase I and II ESA of coal loading terminal along the Ohio River. Phase II delineated Soil & groundwater diesel impact which was remediated using free product recovery, pump and treat and vacuum extraction—Kenova, WV.
- Phase I ESA of more than 1800 acres of timber land which included Phase II soil sampling for mercury at natural gas wellhead sites – Various Locations, WV .
- Phase I ESA of city block slated for demolition. Phase II activities included soil and groundwater sampling, asbestos sampling, lead based paint sampling and wipe sampling of surfaces within pesticide storage areas – Fairmont, WV.
- Phase I ESA and wetland assessment and delineation at 900-acre undeveloped property Kingwood, WV
- Risk assessment for site closure at LUST site in Ohio, conducted in accordance with Ohio BUSTR guidelines.
- Risk assessment for RCRA closure at Barge Manufacturing Facility, Burlington, Ohio.
- Exposure Assessment at pigment manufacturing facility as part of RCRA closure Cincinnati, Ohio .

Shawn Gray, ASLA

Site Designer and Land Planner

Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Relevant Project Experience

- **Greater Greenbrier Sports Complex Master Plan**
Currently providing 5-Phased, Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV.
- **Valley Park Master Planning & Expansion**
Served as a Site Designer for the expanding Valley Park in Hurricane, WV. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WV DOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.
- **Volcano Island Master Planning**
Provided land planning and design engineering, utility location and mapping services for the properties. The master planning provided vision for Volcano Island Water Park, allowing the City of Fairmont efficient and value-based use of the former environmentally concerned site.
- **Scott-Teays, Sheetz**
Provided site design services for Sheetz Service Centers at Scott Depot and Green Acres, WV. The projects consisted of site layout and design, utility design, hardscapes and landscape architecture.
- **Pioneer Federal Credit Union**
Provided site design services for Pioneer Federal Credit Union in Hurricane, WV.
- **The Bechtel Summit National Scouting Reserve**
Provided Initial Site Selection/Conceptual modeling designs, site planning/grading and Erosion and Sediment Control services for the 12,000+ acre site in Fayette County, WV.
- **Palatine Park Master Planning**
Provided master Planning Services for the City of Fairmont for the redevelopment of Palatine Park on the east side of the Monongahela River adjacent to downtown Fairmont, WV. The Master Plan featured new parking areas, walking trails, a vista overlook, a picnic gazebo and retail space.
- **Westmoreland Trail System Master Planning**
Provided site design services for a trail connector designed on the top of an earthen flood levy to move through urban areas.
- **Harveytown Park & Connector Master Planning**
Provided 3-Phase Master Planning for a heavily used section of trail.
- **Southridge Center Master Site Planning**
Provided master planning and site civil engineering for several areas of Southridge Center in South Charleston, WV.



Education

B.S. Landscape Architecture
West Virginia University

Work Experience

TERRADON Corporation
2005-Present

Organizations

American Society of
Landscape Architects

PRINCIPALS/KEY PERSONNEL

Greg Fox, ASLA, LEED AP

Vice President of Land Development

Greg Fox oversees TERRADON's Land Development Sector. Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 25+-year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies.



Relevant Project Experience

- **The Bechtel Summit National Scouting Reserve**
Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project subconsultants for NPDES permitting with WVDEP.
- **Greater Greenbrier Sports Complex**
Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.
- **Advanced Technology Centers**
Provided site grading, erosion and sediment control and utility design for two West Virginia Higher Education Policy commission Advanced Technology Centers located in Fairmont, WV and South Charleston, WV.
- **K-12 Educational Facilities**
Responsible for Master Planning, Site Layout and Design, Schematic Renderings, Parcel Identification, Feasibility and Cost Analysis, and construction drawings for hundreds of k-12 educational facilities throughout West Virginia. Projects include new construction as well as renovations and additions.
- **Fairmont State University**
Responsible for Master Planning and Design of inner campus, including design of seating fountain, drainage features and landscaping.
- **Marshall University**
Responsible for Site Design, Utility Design, Grading and Drainage for Applied Sciences Building, Student Housing, Wellness Center and Parking Garage. Provided ADA compliancy on campus buildings and site design for existing soccer field.
- **Greenbrier Valley Medical Center**
Responsible for master planning through site/civil construction documents for the Greenbrier Valley Medical Center in Lewisburg, WV.
- **Tazewell Community Hospital**
Responsible for master planning through site/civil construction documents for the East Addition of the Tazewell Community Hospital in Tazewell, Virginia.
- **Thomas Memorial Hospital**
Responsible for site/civil construction documents for Thomas Memorial Hospital in South Charleston, WV.

Education

B.S. Landscape Architecture
West Virginia University

B.A. Geography & Planning
West Virginia University

Work Experience

2000-Present
TERRADON Corporation

1996-2000
Martin Boal Anthony &
Johnson Architects

1993-1996
Site Design

1989-1993
EG&G Inc

1988-1989
PSC Engineers

TOWER ENGINEERING OVERVIEW AND SERVICES

Tower Engineering has been providing innovative mechanical, electrical, plumbing, and fire protection solutions since 1931. While Tower is a generalist firm, it primarily serves the K-12 and higher education, healthcare, senior living, hospitality and recreation sectors in both renovations and new construction. The firm's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage.

Our engineers utilize state-of-the-art software programs for the design of lighting, electrical power and mechanical systems. Lighting analysis includes point-by-point calculations, ESI analysis, exterior lighting analysis, and life cycle cost comparisons. Electrical power analysis includes fault current and load flow analysis.

Mechanical design and analysis services include energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water system designs, along with BIM modeling. Our professional staff utilizes computer selection of air handling units, coils, pumps, terminal devices, fans, cooling towers, chillers, heat exchangers, kitchen hoods, hydronic and steam specialties, humidification equipment and heat recovery equipment.

Sustainability principles are considered at every design point, and firm principals personally lead every project. The firm has 26 employees, including 14 Registered Professional Engineers and nine LEED Approved Professionals

SPECIFIC ENGINEERING SERVICES

HVAC

- Heating and cooling system design
- Ventilation system design
- Building automation systems
- Control systems and energy monitoring
- Geothermal heat pumps
- Heat recovery systems
- Kitchen and laboratory exhaust systems
- Smoke evacuation systems
- Computer room environmental control systems
- Building commissioning services

ELECTRICAL

- Interior and exterior lighting design and studies
- Lighting controls
- Primary and secondary voltage power distribution systems
- Fire detection and alarm systems
- Computer data and power systems
- Uninterruptible power supply systems
- Reinforced and masking sound systems
- Lightning protection systems
- Fault current studies
- System over-current protection coordination

TELECOMMUNICATIONS

- Voice communication systems
- Data network systems

PLUMBING

- Water resource efficiency analysis
- Sanitary drainage systems
- Storm water management
- Domestic water systems
- Waste water treatment systems
- Hospital and laboratory piping systems
- Fuel oil piping systems
- Irrigation systems

FIRE PROTECTION

- Standpipe and sprinkler systems
- Fire protection systems





JAMES N. KOSINSKI, P.E., LEED AP

PRINCIPAL, VICE PRESIDENT
SENIOR PROJECT MANAGER, MECHANICAL ENGINEERING

Mr. Kosinski is primarily responsible for the design of HVAC systems and their components for Tower Engineering projects. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems. Jim's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration.

Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analyses, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures. As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

REPRESENTATIVE EXPERIENCE

Allegheny Energy, Fairmont, West Virginia
New Transmissions Operations Center (LEED)

Stryker Readiness Center and OMS - Cambridge Springs, PA
These facilities provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

Pennsylvania National Guard Readiness Center - Connellsville, PA
a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training work-bays. (LEED)

West Virginia Army Reserve Center - Jane Lew, West Virginia
At 7,400 SF, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas.

Department of Energy - Morgantown, WV
New Record Storage Facility (LEED)

EDUCATION

Bachelor Architectural Engineering
Penn State University 1989

REGISTRATION

PE, Pennsylvania

PE-0 [REDACTED]

PE, West Virginia

PE- [REDACTED]

PE, New York

PE, Maryland

NCEES Registered

LEED Accredited Professional
2009

AFFILIATION

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)





THOMAS J. GORSKI, P.E., LEED AP

PRINCIPAL, PRESIDENT
MECHANICAL ENGINEERING DEPARTMENT HEAD

Mr. Gorski's primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities, and military facilities. He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems.

Tom's design responsibilities include load calculations, equipment selection and system layout, project specifications, cost estimates, direction of the project drafting effort, coordination with architectural and other engineering disciplines, and construction administration. He also performs system analysis and energy studies, maintains client contact, and supervises the engineering effort of the Mechanical Engineering groups.

REPRESENTATIVE EXPERIENCE

Allegheny Energy Headquarters - Fairmont, West Virginia
New Transmissions Operations Center (LEED)

Stryker Readiness Center and OMS - Cambridge Springs, PA
These facilities provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

United States Army Reserve Center - Jane Lew, West Virginia
Readiness Center and Organizational Maintenance Shop Building

West Virginia University - Morgantown, West Virginia
Current Term Contract
WVU Tech - Interior and Exterior Renovations
New Intermodal Transportation Center
New Student Recreation Center
Student Recreation Center Building Commissioning
Caperton Center for Applied Technology
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Fairmont State University - Fairmont, West Virginia
Engineering Technology Building

EDUCATION
BS Mechanical Engineering
Penn State University 1982

REGISTRATION
PE, Pennsylvania
PE- [REDACTED]

PE, West Virginia
PE- [REDACTED]

PE, New York

NCEES Registration

LEED Accredited Professional
2009

AFFILIATION
American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)
Pittsburgh Chapter; Past President






JOHN C. WEST JR., P.E.

ASSOCIATE, SENIOR PROJECT MANAGER
ELECTRICAL ENGINEERING DEPARTMENT HEAD

Mr. West provides electrical engineering and lighting design services for the design of office buildings, educational facilities, municipal buildings, community/recreational buildings, health care, and commercial facilities. His primary responsibility is for the preparation of electrical opinions of cost, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

John's design responsibilities include lighting layout and fixture selection, including calculations and system coordination studies and calculations; computer rooms and associated support facilities; fire alarm and detection systems; emergency power, public address, nurse call, audio-visual, security and closed circuit television systems. Additional responsibilities include client contact, field observation, and project management.

REPRESENTATIVE EXPERIENCE

Allegheny Energy Headquarters - Fairmont, West Virginia
New Transmissions Operations Center (LEED)

West Virginia University - Morgantown, West Virginia
Current Term Contract
WVU Tech - Interior and Exterior Renovations
New Intermodal Transportation Center
New Student Recreation Center
Student Recreation Center Building Commissioning
Caperton Center for Applied Technology
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Fairmont State University - Fairmont, West Virginia
Engineering Technology Building

EDUCATION

BS, Architectural Engineering
Penn State University 1994

REGISTRATION

PE, Pennsylvania

PE- [REDACTED]

AFFILIATION

Illuminating Engineering Society of
North America (IES):
Past President Pittsburgh Section

AWARD

IES Design Award of Merit 2003,
Ross Twp. Municipal Complex
Pittsburgh, Pennsylvania



EDUCATION

BS, Mechanical Engineering
Penn State University 1997

REGISTRATION

Professional Engineer, PA
PE- [REDACTED], 2003

Certified in Plumbing
Engineering (CIPE), 1998

LEED Accredited Professional
2009



MICHAEL S. PLUMMER, P.E., C.I.P.E., LEED AP

ASSOCIATE, SENIOR PROJECT MANAGER PLUMBING & FIRE PROTECTION ENGINEERING DEPARTMENT HEAD

Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for Tower Engineering projects. His plumbing and fire protection design responsibilities include performing calculations for hydraulically designed sprinkler systems; designing water supply and pumping systems including fire mains and sizing of fire pumps; design/testing of fire protection and alarm systems; and design of plumbing sewage, gas and water systems.

Mike is an experienced HVAC system designer, and performs load calculations, equipment selection and systems layout. His duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines. He also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing and Fire Protection Department.

REPRESENTATIVE EXPERIENCE

Pennsylvania National Guard Readiness Center - Connellsville, PA

a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training work-bays. (LEED)

Stryker Readiness Center and OMS - Cambridge Springs, PA

These facilities provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

West Virginia Army National Guard - Buckhannon, West Virginia

New Reserve Center

West Virginia Army National Guard - Fairmont, West Virginia

New Reserve Center

City of Fairmont - Fairmont, West Virginia

Public Safety Building

PENNSYLVANIA NATIONAL GUARD READINESS CENTER

CONNELLSVILLE, PA

YEAR COMPLETED:
2005

SQUARE FOOTAGE
23,017

TOTAL CONSTRUCTION COST
\$4.1 million / MEP \$1.1 million



Tower Engineering provided mechanical/electrical engineering services for construction of a new 23,017 square foot armory at the Pennsylvania National Guard Readiness Center in Connellsville, Pennsylvania. This specially designed facility of permanent masonry type construction is constructed of brick and concrete block units with concrete floors, and a metal standing seam roof, including a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training work-bays. Cost effective energy conserving features were incorporated into the design, including energy management control systems and high efficiency motors, lighting, and HVAC systems.



STRYKER BRIGADE COMBAT TEAM READINESS CENTER & OMS

ARMY NATIONAL GUARD - CAMBRIDGE SPRINGS, PA

YEAR COMPLETED:
2008

SQUARE FOOTAGE
89,700

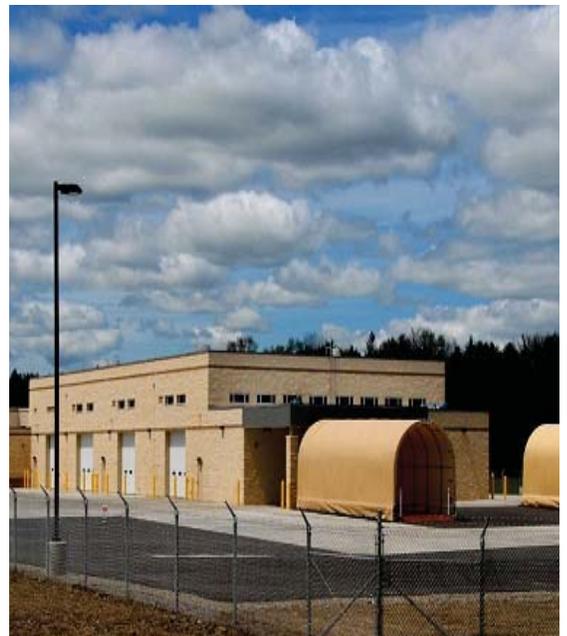
TOTAL CONSTRUCTION COST
\$19.6 million



Tower Engineering provided engineering services for the design/build of a new 69,900 s.f. Readiness Center and 19,800 s.f. Organizational Maintenance Shop (OMS) for the Stryker Brigade Combat Team. These facilities provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.



Sustainable design features were included in the design and construction of these facilities, with a goal of a SPiRiT rating of Gold. Design requirements included Anti-Terrorism/Force Protection(AT/FP).



US ARMY RESERVE CENTERS

JANE LEW, WEST VIRGINIA
CLARKSBURG, WEST VIRGINIA

YEAR COMPLETED:
2008

SQUARE FOOTAGE
33,688

TOTAL CONSTRUCTION COST
\$ million



Tower Engineering provided engineering services for the U.S. Army Reserve Training Center in Jane Lew, West Virginia. The Center provides a suitable facility for weekend and other intermittent training exercises of the Army Reserve.

At 7,400 SF, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas.

A separate Organizational Maintenance Shop Building (OMS) provides an enclosed garage area for maintenance operations on the various vehicles, an office, and tools and parts storage.

Tower Engineering also provided mechanical and electrical consulting engineering services for the construction of an 16,120 SF Training Building and 10,168 SF Organizational Maintenance Shop at the U.S. Army Reserve Center in Clarksburg, West Virginia.

These facilities, as well as the buildings at Jane Lew, West Virginia, were designed in accordance with the U.S. Army Corps of Engineers' "Architectural and Engineering Instructions, Design Criteria."



WVARNG FAIRMONT ARMED FORCES RESERVE CENTER FAIRMONT, WV

YEAR COMPLETED
2013

SQUARE FOOTAGE
91,500

TOTAL CONSTRUCTION COST
\$25 million



Tower Engineering provided mechanical and electrical engineering services for the new WVARNG Fairmont Armed Forces Reserve Center in Fairmont, West Virginia.

The building's Mechanical, Electrical and Fire Proofing Systems include many high efficiency features/systems as follows:

- Variable Air Volume HVAC System
- High Efficiency Heating Plant
- Variable Speed Pumping
- Carbon Dioxide Sensors for monitoring and control of ventilation air
- Heat Recovery for free preheat/precool of ventilation air
- Daylight Harvesting



GOVERNMENT OWNED FACILITIES

Tower Engineering has provided mechanical and electrical consulting engineering services for numerous government-owned facilities. With eight decades of experience, our firm knows the importance of meeting the client's needs without exceeding the project's budget. Thoroughly familiar with current government and military standards, our firm has provided engineering services for the following government-owned facilities:



FEDERAL GOVERNMENT

- William S. Moorhead Federal Office Building, PA
- Department of Labor Job Corps Center, PA
- Butler VA Hospital, PA
- Department of Labor Job Corps Medical Center, PA.
- Army Corps of Engineers Lab, PA
- Army Corps of Engineers Neville Island, PA
- National Guard Readiness Center Connellsville, PA
- National Guard Stryker Center Cambridge Springs, PA
- National Guard Fairmont Readiness Center, WV
- Army Reserve Center Jane Lew, WV
- Army Reserve Center Clarksburg, WV
- IRS Liberty Center Tenant Fitup, PA
- INS Application Support Center, PA
- VA Medical Center Pittsburgh, PA (multiple)
- Department of Energy Records Storage, WV
- Department of Agriculture Lab, PA
- National Geospace Agency St. Louis, MO

STATE GOVERNMENT

- State Police Building, PA
- Capitol Building Welcome Center, PA
- Tygart Lake State Park Lodge Addition, WV
- Twin Falls Resort State Park Addition, WV
- DER Regional Offices, PA
- DER Lab Renovation, PA
- Ebensburg Center HVAC Renovation, PA
- Buckingham Protection Custody Facility, PA
- HRS Computer Room, PA
- Capitol Science & Cultural Center, WV
- Scotland School for Veterans Children, PA

UNITED STATES POSTAL SERVICE

- McKnight Road, Pittsburgh, PA
- Clairton, PA
- Monongahela, PA
- Northside, Pittsburgh, PA
- Grant Street, Pittsburgh, PA
- Rochester, PA
- Bulk Mail Handling Facility, Pittsburgh, PA
- Open Ended Services Agreement, PA and WV

GOVERNMENT OWNED FACILITIES CONTINUED



LOCAL GOVERNMENT

- Allegheny County Housing Authority, PA
- Beaver County Courthouse & Annex, PA
- Beaver County Ice Arena Renovations, PA
- Bellevue Borough Building Study, PA
- Bethel Park Community Center, PA
- Cambridge Springs Library, PA
- Cambridge Water Treatment Plant, OH
- City County Building Pittsburgh, PA
- City Hall Pittsburgh PA
- City of Pittsburgh Swimming Pools, PA
- City of Pittsburgh EOC 911, PA
- City of Pittsburgh Warehouse, PA
- Public Auditorium Authority Civic Arena, PA
- Cranberry Township Municipal Complex, PA
- Dormont Pool Complex Feasibility Study, PA
- Eighth Avenue Streetscape Phase IV, PA
- Erie Senior Citizen's Center, PA
- Erie Veteran's Stadium Renovation, PA
- Fairmont Parking Garage, WV
- Fairmont Public Safety Building, WV
- Field Avenue Recreation Park, PA
- Franklin Park Municipal Building, PA
- Franklin Township Sanitation Authority, PA
- Freeport Borough Building, PA
- Greater Pittsburgh International Airport, PA
- Green Tree Municipal Building, PA
- Greensburg County Building, PA
- Hampton Township Master Planning, PA
- Housing Authority of the City of Pittsburgh, PA
- Kennedy Township Park, PA
- Louis J. Tullio Convention Center Erie, PA
- McCandless Municipal Building, PA
- Monroeville Municipal Building, PA
- Moon Township Water Authority, PA
- Mt. Lebanon Parking Garage, PA
- New Stanton Water Treatment, PA
- Penn Hills Recreation Center, PA
- Penn Township Civic Center, PA
- Penn Township Municipal Complex, PA
- Pittsburgh Parking Authority, PA
- Ross Township Municipal Complex, PA
- South Park Municipal Buildings, PA
- South Strabane Township Municipal Building, PA
- Stowe Senior Citizens' Center, PA
- Three Rivers Stadium Renovations, PA
- Vanport Municipal Authority, PA
- Western Ave. Streetscape Improvements, PA
- Westmoreland County Housing Authority, PA

DATA CENTER EXPERIENCE

Tower Engineering's recent experience with the design of mechanical and electrical systems for data centers includes:

- Design of new service and UPS/generator systems associated with a large data center expansion for MSA
- Engineering and design associated with approximately 10,000 SF data center space for a West Virginia client. Design included Tier 2 mechanical/electrical solution with specialized rack cooling and underfloor HVAC systems.
- Engineering and design of Verizon Wireless Call Center, including 110,000 SF office space and 5000 sf data center. A new 1 megawatt generator systems.

Past experience includes engineering services for systems evaluations, renovations and/or new construction of data centers.

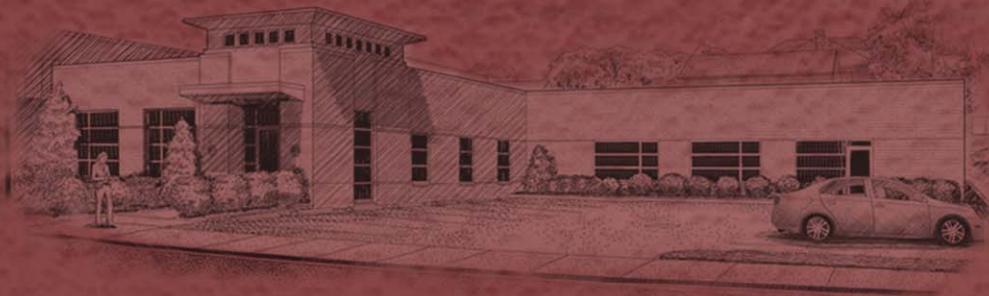


- Alcoa
- Bayer
- Blue Cross
- Consolidated Communications
- Dollar Savings Bank
- Fairmont State University
- Fisher Scientific
- Fiserv Data Center
- Legent Corporation
- Massey Coal
- MSA (Evergreen Heights)
- Orrick Herrington & Sutcliffe
- PNC Bank
- Pittsburgh Public Schools
- RIDC Pittsburgh
- Saint Vincent College
- South Hills Data Communications
- Verizon
- Waynesburg University

WET CELL BATTERY EXPERIENCE

Tower Engineering has designed wet cell battery systems for a large number of school district data centers, and specifically for the following projects:

- **West Virginia University - Brooke Hall lab renovation**
- **PNC Data Center (primary data center for PNC Bank, located in Pittsburgh)**
- **Ally Financial Services, Dayton**
- **Westinghouse Research Facility, Monroeville, PA**
- **Allegany Ballistics Laboratory, Rocket Center (Keyser), WV - Numerous data center projects – Data Centers, UPS, Chilled Water Plant and modifications**



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