



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
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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: 102615

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: WILLIAMSON SHRIVER ARCHITECTS INC

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

SO Doc Code: CEOI

SO Dept: 0603

SO Doc ID: ADJ1500000009

Published Date: 5/4/15

Close Date: 6/2/15

Close Time: 13:30

Status: Closed

Solicitation Description:

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 : 102615

Solicitation Description : Marshall County Readiness Center EOI Design Services

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2015-06-02 13:30:00	SR 0603 ESR06011500000004099	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	Marshall County Readiness Center 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 architectural and engineering design services to provide for the interior design, including mechanical, HVAC systems and electrical as needed at the Marshall County Readiness Center, in Moundsville, WV.



June 2, 2015

Architectural and Engineering Services for
WV Army National Guard

ADJ I 500000009

Marshall County Readiness Center



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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: [Signature] Date: 6/2/2015

State of West Virginia

County of Kanawha, to-wit:

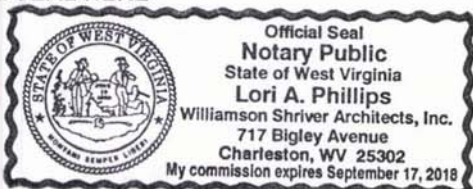
Taken, subscribed, and sworn to before me this 2nd day of June, 2015.

My Commission expires September 17, 2018.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature: Lori A. Phillips]
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 304.345-3693 6/2/2015
(Phone Number) (Fax Number) (Date)



June 2, 2015

Ms. Tara Lyle, Buyer Supervisor
West Virginia Purchasing Division
2019 Washington Street East
Charleston, WV 25305

RE: Architectural and Engineering Services Expression of Interest
ADJ150000009 Renovations to Marshall County Readiness Center

Dear Ms. Lyle:

Williamson Shriver Architects, Inc. was excited to learn of the WVANG's recent Request for Expressions of Interest for interior renovations of the Marshall County Readiness Center including all mechanical, HVAC systems and electrical as needed. We are pleased to submit our team's experience and credentials for your consideration. We are appreciative of the opportunity to work with you on the ongoing renovation projects at Weston and Clarksburg and, are hopeful to work with you 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
- **Tower Engineering**, Pittsburgh, PA – HVAC, electrical, and plumbing design
- **Terradon Corporation**, Nitro, WV - Site / civil engineering and landscape 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 address interior design and renovation, building security compliance with current building codes and force protection as well as renovation of the mechanical, HVAC systems and electrical as needed. We have an amplified understanding of the particulars of this project due to our site visit on May 6th during which the caretaker graciously provided a tour of the facility and offered in-depth background to the project scope. Williamson Shriver Architects has completed countless renovations similar in nature over the years. Additionally, team members Tower Engineering, Watkins Design Works and Terradon all have significant experience in performing design services for the WVARNG.

Ms. Tara Lyle
June 2, 2015

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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.

A handwritten signature in black ink that reads "G. Williamson". The signature is written in a cursive, flowing style with a large initial "G" and "W".

Gregory A. Williamson AIA • LEED AP
President / Architect



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Williamson Shriver Architects

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Terradon Corporation

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Tab I

Firm Overview



Firm Overview

Williamson Shriver Architects, Inc. is an award-winning, multi-disciplinary design firm that has business roots back to 1967. While specializing in educational and commercial planning and design, we provide design services to a diverse client base throughout West Virginia. With construction values exceeding one billion dollars over our history, the size and scale of our projects have ranged from detailed designs for small interior renovations to large multi-million dollar new facilities. Large or small, simple or complex, every project has our commitment to diligent, well thought-out design. Our functional and distinctive buildings reflect the vision of our clients and the spirit of our communities.

Experienced, capable, and responsive, we have a long tradition of excellence and client commitment. Simply put ... we listen ... and combine what we learn from listening with a clear understanding of technology, sustainability, and a wealth of experience. Every Williamson Shriver Architects design is a collabora-

THE VISION OF OUR CLIENTS AND THE SPIRIT OF OUR COMMUNITIES

tion with the end user. Our finished projects work for people because they start with people. Through focus groups, individual interviews, and public meetings, we ask our clients to stretch their imagination and anticipate how they will use each space. The result of this process ... flexible design solutions that respond to people and make the most of budgets.

Commitment to quality, dedication to project and client, and a nearly fifty year tradition of innovation and architectural excellence... that's Williamson Shriver Architects. No matter what the program, site, or budget, we've been there and we have the experience and vision to shape your project into a success.

At Williamson Shriver Architects, we're listening.



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,
ELIMINATE MOST DESIGN
ERRORS BEFORE THEY
MAKE IT OUT OF OUR
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.



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Tab 2

Project Approach

Project Scope and Approach

The Marshall County Readiness Center, located in Moundsville, WV was constructed approximately thirty years ago. It is our understanding that the building has been underutilized for approximately four years. This project will include Interior Design and Mechanical / Electrical updates to the existing building to insure building security, compliance with building codes and force protection.

Our project team has walked through the building to review existing conditions, and we discussed these conditions, along with needed improvements, with on-site personnel.

On this project, Gregory A. Williamson AIA 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 AIA will serve as Project Manager, 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 Readiness Center Project.

- **Watkins Design Works**, of Charleston WV, specializing in space planning, interior design, and furnishings and equipment selection, and LEED consulting services.

- **Tower Engineering**, a Pittsburgh PA consulting engineering firm who will provide HVAC, electrical, plumbing and fire protection design services.

- **Terradon Corporation**, of Poca WV, special-

izing in site, civil, and environmental engineering consulting services.

Architectural Building Observations

Architectural observations from our walk through include the following:

- The building is in generally good structural condition. No significant structural deficiencies were noted.
- The main interior corridor of the building includes attractive forms and spaces which should be retained. The brick interior walls should be retained, but may require cleaning.
- The existing windows and door sidelight glazing should be evaluated for energy performance to determine compliance with current energy codes.
- Several locations were noted

where moisture has apparently penetrated the interior of the building.

- The finishes in the building are dated to the period of construction and should be replaced.
- Acoustical lay-in ceilings are curling and showing signs of impact of humidity within the building. These should be replaced.
- While the interior and exterior doors appear to be generally in good condition, certain doors may require further evaluation to determine if replacement is warranted.
- Exterior door hardware should be evaluated to determine conformity with current access control system technology.
- Built-in accessories such as toilet partitions and accessories are in marginal condition



Project Scope and Approach (continued)

- and should be replaced.
- An interior access passage to the existing mechanical room is desired by on-site staff and should be considered as part of the scope of work.
- We understand that the floor tile mastic may contain asbestos fibers. Abatement of this hazardous material should be considered to be a part of the renovation scope.



Existing Systems Analysis

Based upon the items observed and discussed during the walk-thru, we anticipate that there will be significant modifications/upgrades to the building's existing mechanical and electrical systems. With the building being constructed in 1985, most components of the building's MEP infrastructure are original and thus are beyond their expected longevity.

Observations from our walk-thru include the following:

- Inefficient mercury halide lighting in main corridor that is also very difficult to maintain.
 - Inefficient T12 lighting throughout the building.
 - The data networking, fire alarm and phone systems are dated.
 - Poor domestic water quality, building lacks a functioning conditioning system.
 - The original Culligan water softening system has failed.
 - The domestic water heater is original and is low efficiency.
 - The bathroom plumbing fixtures are dated and do not comply with ADA requirements.
- Floor mounted unit ventilators are in poor shape with many failing motors and leaking outside air dampers. Unit ventilators are noisy and are connected to 2-pipe change-over HVAC system.
 - Many of the building's existing grid ceilings are bowed, indicative of high humidity conditions within the building that are typical of unit ventilator installations.
 - A standalone packaged HVAC system was installed in 1998 for the large room at the rear of the building. This unit is showing signs of cabinet deterioration and is approaching its expected longevity.
 - The building's packaged air-cooled chiller is not operational.
 - The building's gas-fired heating plant is original and is low efficiency (natural draft) and has achieved its expected longevity
 - The building's hot and chilled water pumps lack variable speed drive
 - The control system is an antiquated pneumatic/electric system.
 - The HVAC system utilizes a central 2-pipe changeover heating/cooling plant that is not capable of providing concurrent heating and cooling to the building. Typically, the result of this kind of system is wide temperature fluctuations at various locations within the building during moderate "swing" weather.

With the possible exception of existing piping and ductwork distribution systems (which should be carefully checked), the HVAC system should be replaced in its entirety. There are many alternatives that should be considered for this upgrade that would improve the building's overall energy efficiency and comfort. Tower Engineering has the in-house expertise to compare these options on a quantitative basis using sophisticated energy analysis software that al-

Project Scope and Approach (continued)

lows for the calculation of a return on investment (ROI) analysis.

The building's fire alarm and lighting systems should be replaced. Power distribution systems should be reused, modified and/or replaced based upon how other components of the building are upgraded. For example, the building's existing 1200 amp service should be retained if the service is sufficient for all future building connected loads.

If the building's domestic hot/cold water piping, sanitary piping and storm piping is in good shape the plumbing system upgrades can be limited to primary equipment. This would include the water heater, recirculation pump and terminal fixtures.

Design Schedule

The WVARNG's schedule for this project is currently not known to our team. This will be discussed with the Owner immediately upon our team being selected. 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.

Evaluation of Existing Facility

Prior to commencing design, our project team will investigate and evaluate your existing facility in significant detail. This will be done by reviewing all available architectural and engineering drawings, visiting and physically measuring the building and its components, photo or video-documenting the existing conditions, verifying in the field that the building components are consistent with the original documents, docu-

menting any changes to the facility which may have been made during its occupancy, evaluating the functional life expectancy of existing building systems, and reviewing all available Owner held documents such as Fire Marshal reports, hazardous materials reports, maintenance records, etc. which may impact the final scope of renovation work. Our team will then produce a Revit building model reflecting the existing conditions of the building(s).

Programming Phase

Williamson Shriver Architects will conduct multiple programming and planning meetings that include WVARNG Project Managers and personnel, as well as building users, etc. if so directed by the Agency, as necessary to obtain the best possible programming input. We will encourage active participation by attendees. We will utilize a variety of methods to generate and describe ideas such as presentations, design charrettes, 3D concept modeling, and general discussions and feedback. At the conclusion of this phase, a final program / building performance specification document will also be generated to document the discussion and outcome of the planning meetings, building performance requirements, master plan, and infrastructure and technology requirements.

Schematic Phase

Based upon the approved program, the design team will begin to develop conceptual design studies to translate the program into design concepts as well as indicating the scale and relationship of spaces. Several schematic studies may be presented for review and staff/owner comments along with cost estimates for selected schemes. We will mutually narrow down the schemes to one which is most closely compatible with the final established program which will then be developed into final sche-

Project Scope Approach (continued)

matic documents. A cost estimate for this proposed scheme will be finalized, and the entire package submitted to the owner for approval.

Design Development Phase

Once the schematic documents are approved by the Owner, the design team will progress to the design development phase of the project. The Design Development Phase documents advance the approved schematic design by illustrating and describing the architectural, structural, mechanical, and electrical components and systems, and other elements through the use of plans, sections, elevations, typical construction details, and diagrammatic layouts of the building systems as well as other documents to fix and describe the size and character of the project. Important details of construction will be shown, any necessary selective demolition and alterations will be indicated, interior design elements including furnishings and equipment will be conceptually defined, construction materials will be generally selected, and the building systems will be outlined and integrated with the building structure and architecture. Outline specifications will be written and all building performance specifications will be updated. A cost estimate will be prepared reflecting the work described in the Design Development documents along with appropriate strategies to deal with any cost issues which may arise. The completed Design Development document package will be submitted to the Owner and authorities having jurisdiction for review and approval.

Construction Documents Phase

Upon approval of the Design Development Phase drawings, 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. To enhance the coordination effort between the disciplines, all team members will utilize AutoDesk Revit Building Information Modeling software in the preparation of these documents.

The work of this phase will include furthering the interior design concepts previously developed by selecting material colors and patterns for inclusion into the project. Additionally, furnishings and equipment appropriate to the function and quality of the proposed design will be selected. The design team will meet as needed with the Owner to gain input regarding these interior design elements.

The design team will confer with 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 updated 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.

Life Cycle Systems Analysis

The purpose of a life cycle cost analysis is to develop a Return on Investment using estimates of total operating costs and construction costs. It involves the process of understanding everything about the operation, occupancy, and physical condition of a building (from an energy



Project Scope and Approach (continued)

point of view). A life cycle cost analysis includes a physical inspection of the condition and operation of the building (when applicable).

Tower Engineering has considerable experience in looking at facilities holistically. Having provided engineering design of numerous types of buildings, we are knowledgeable of how energy is used in each specific types of facility, as well as what can be done to reduce utility costs.

In order to accurately determine the value of any given energy conservation measure (ECM), the following must be determined:

- Utility baseline - Annual cost for utilities
- Estimated Utility Savings - What you hope to save
- Cost of the ECM - initial outlay
- Maintenance Reductions

Our engineering staff can utilize sophisticated software to build a computer model to simulate building operations and energy consumption. Simulated results are fine-tuned with actual meter readings (when applicable), which allow us to accurately predict savings achievable with energy efficiency measures. Results are presented in an easy to read report with cost, savings and payback calculated for each measure.

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, prepare 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



Project Scope and Approach (continued)

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.



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Tab 3

Staff and Resumes

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:

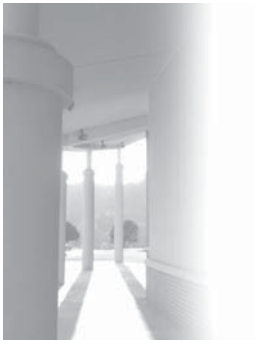
University of Tennessee, 1981
 B. Architecture
 West Virginia State College, 1978
 Winfield (WV) High School 1976

Registration:

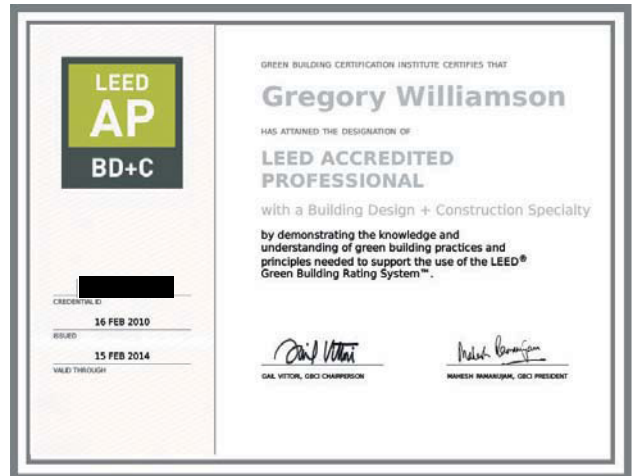
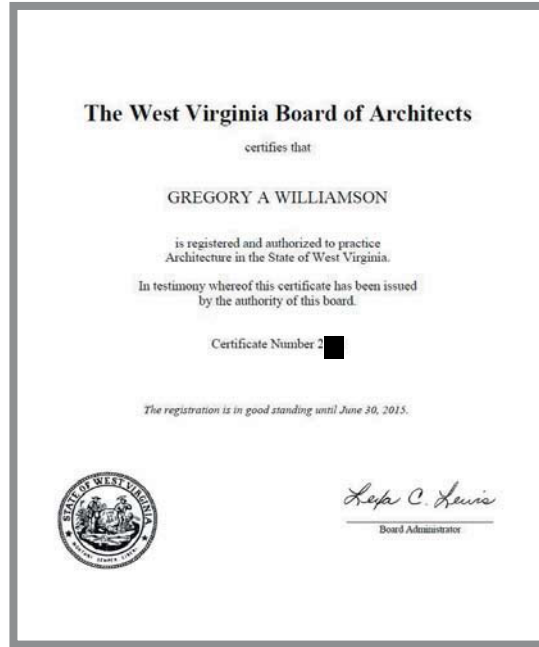
Architect, WV (██████), KY (4██████), MD (██████), VA (██████), OH (██████),
 NCARB Certified (██████)
 Green Building Certification Institute
 LEED Accredited Professional (LEED AP)

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:

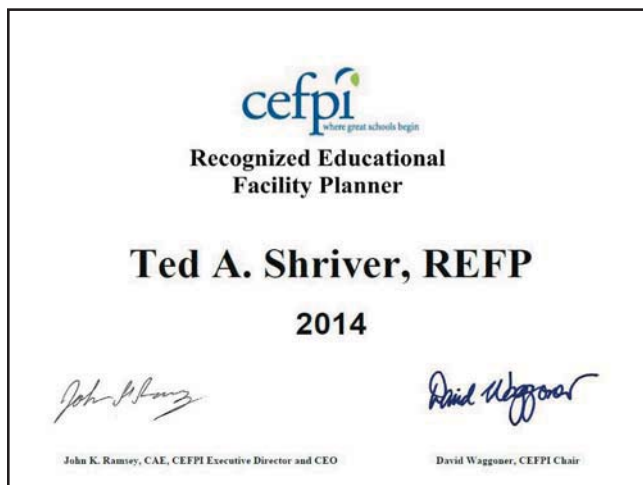
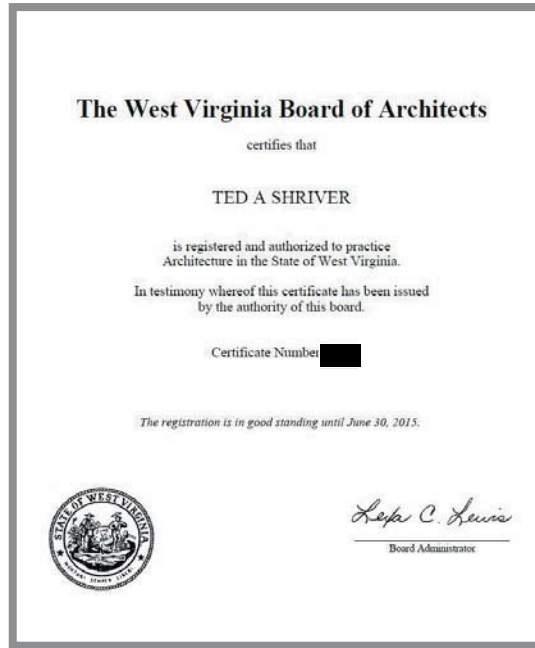
Architect, WV (████), OH (████), MD (████)
Green Building Certification Institute
LEED Accredited Professional (LEED AP)

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



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





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:

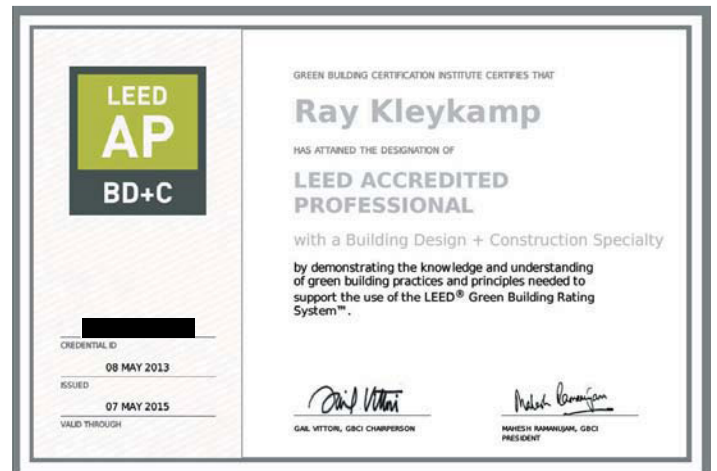
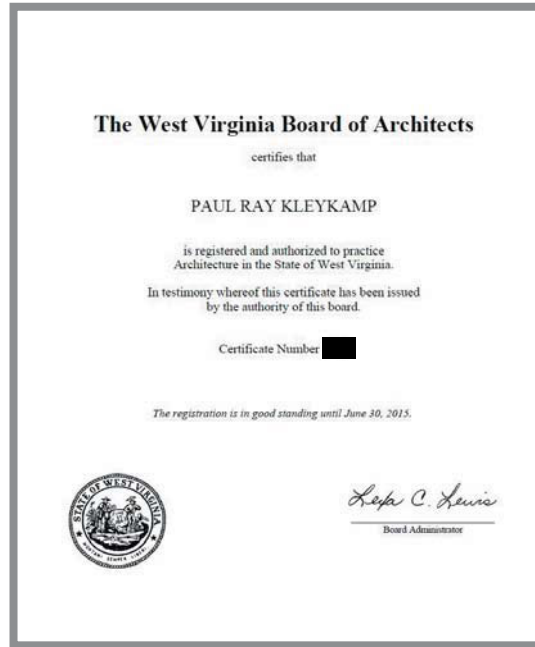
Bowie Gridley Architects
2009-2011
Kling Stubbins
2008-2009
Edward Tucker Associates
1996-2007

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



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

West Virginia State Board of Registration
for Professional Engineers



DONALD W BEYER
WV PE # [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES June 30, 2015

CERTIFICATE OF
Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

WILLIAMSON SHRIVER ARCHITECTS, INC.
C01273-00


Engineer in Responsible Charge: DONALD BEYER - WV PE 015054

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certificate of Authorization for the period of:

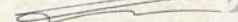
July 1, 2014 - June 30, 2015

providing for the practice of engineering services in the State of West Virginia.

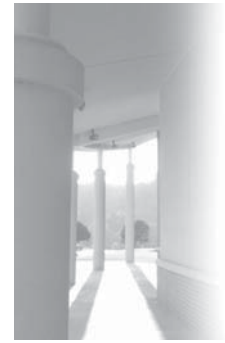
IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL AND SIGNED BY THE PRESIDENT OF SAID BOARD.



BOARD PRESIDENT



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:

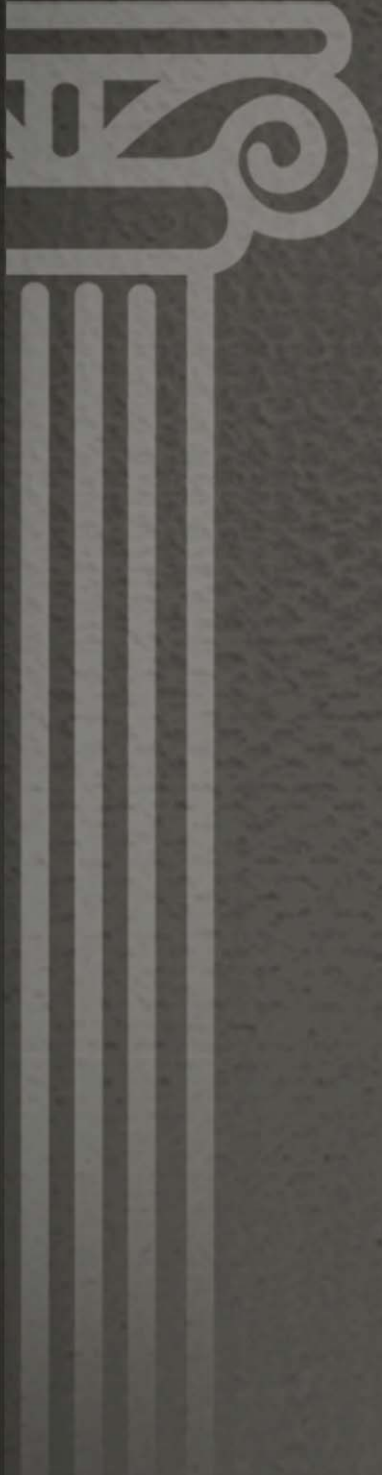
West Virginia State College, 1971
B.S. Industrial Technology

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



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Tab 4

Selected Related Project Experience



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.



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.



Beech Ridge Wind Farm - Operations Maintenance Facility

Greenbrier County, West Virginia



Owner: Invenergy, LLC

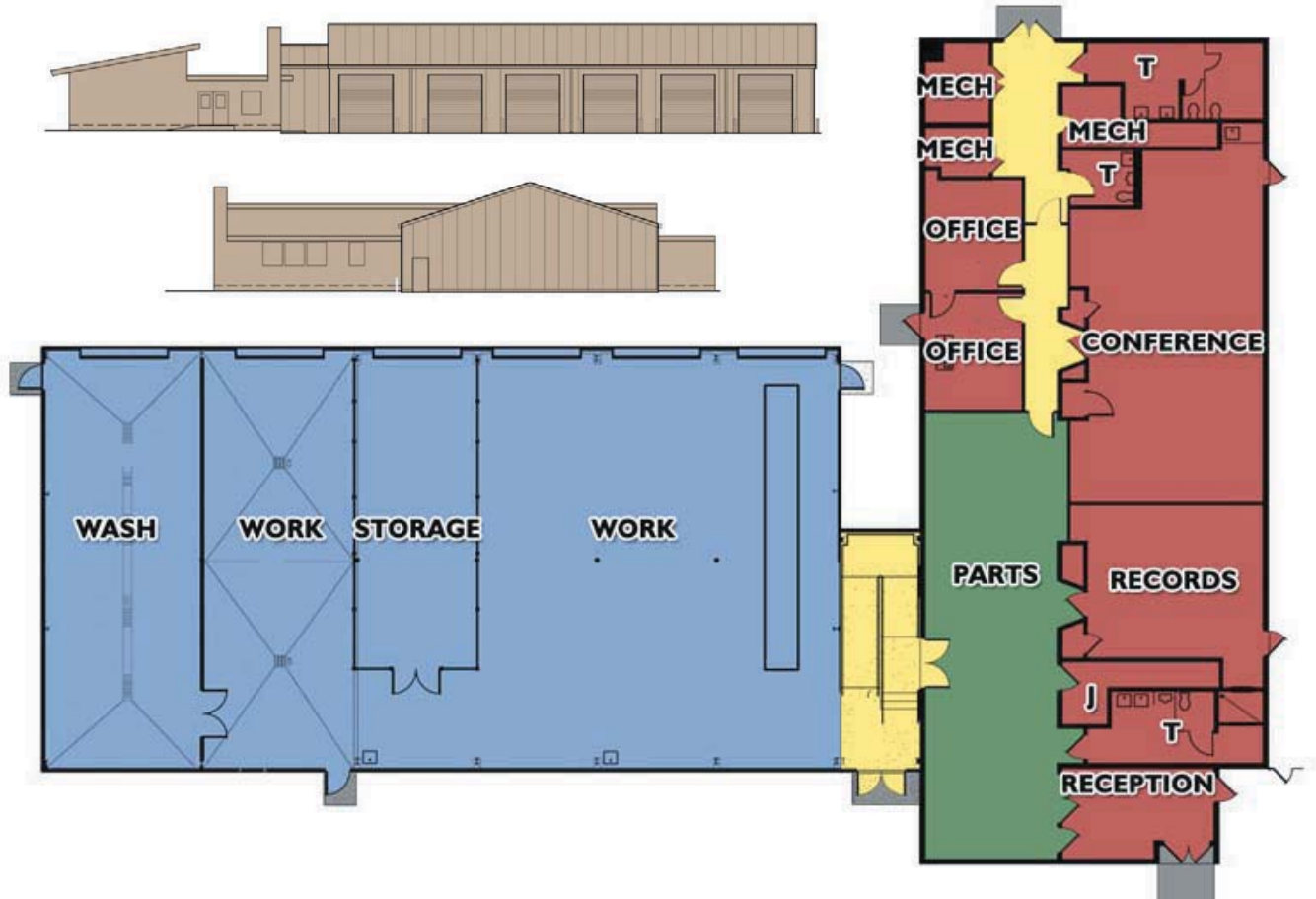
Project Team: Williamson Shriver Architects
Responsible Partner: Gregory A. Williamson, AIA, LEED AP

Project Data:
Square Footage: 6,120
Year Occupied: 2010
Project Scope: New Construction - This project, remotely located in Greenbrier County, consists of administrative offices, training space, and a maintenance bay for vehicles. The building is constructed of concrete walls using Insulated Concrete Form (ICF) construction. This project was a design-build with Agsten Construction of Charleston.



Brooke County Bus Garage

Wellsburg, West Virginia



Owner: **Brooke County Board of Education**

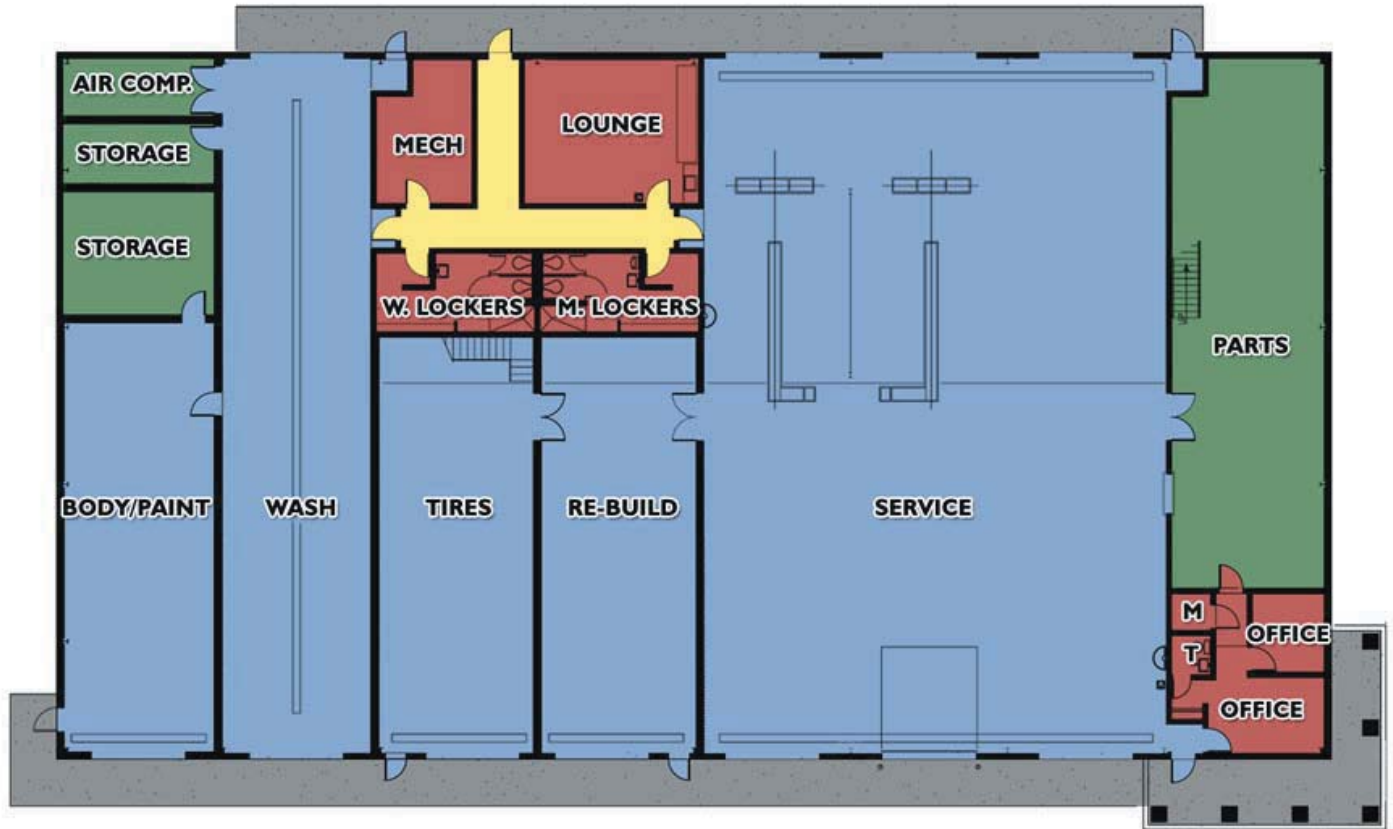
Project Team: **Williamson Shriver Architects**

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**



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www.wsgarch.com

Tab 5

References



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

Mr. Nick Zervos

Executive Director
RESA 6
Wheeling, WV
(304) 243-0440



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ARCHITECTS

www.wsgarch.com

Tab 6

Watkins Design Works LLC



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 Valley 2015 Graduate
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.



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.

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.

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

Projects in addition to the JITEC joint venture between ZMM and AECOM, included a new security entrance and display area for the WVARNG's Fallen Soldier Statue. Jill was responsible for interior design coordination of the ACP, and for designing the statue base, lighting and plaque for the statue, on display in the Billeting lobby.

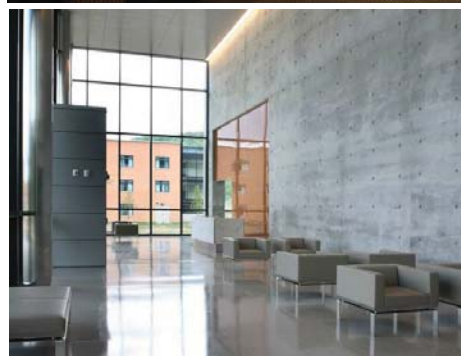
Joint Interagency Training and Education Center

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.





Professional References

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

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

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

Dr. Beverly Jo Harris, President
BridgeValley Community & Technical College
2001 Union Carbide Drive
South Charleston, WV 25303
304.734.6601, jo.harris@bridgevalley.edu

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

Richard Donovan, CFO
Higher Education Policy Commission
1018 Kanawha Blvd. East, Suite 700
Charleston, WV 25301
304.558.0277 ext. 212
donovan@hepc.wvnet.edu

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



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.

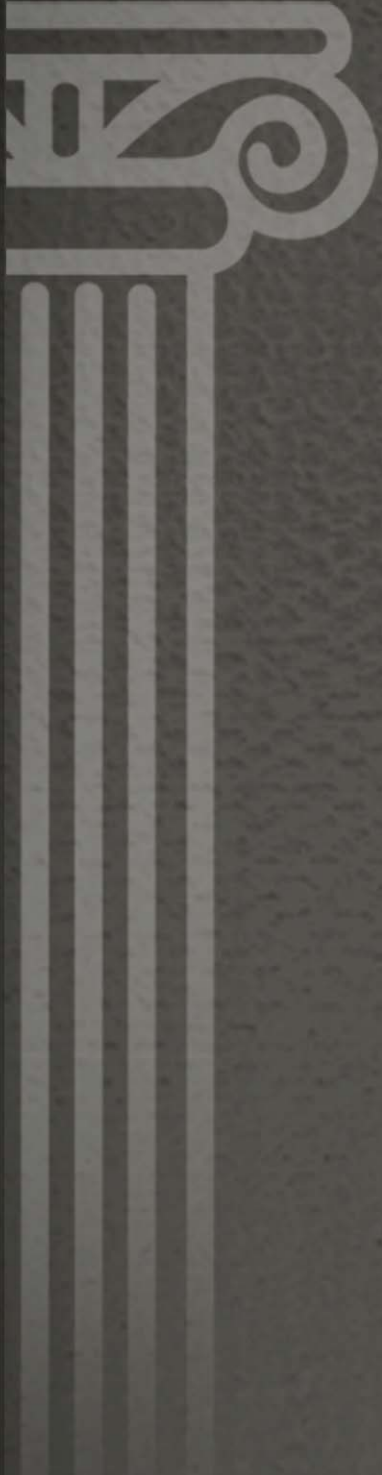
DUNS Number..... 079258297
 CAGE Code 71X86
 NAICS Codes 541410, 541620
 EIN 46-4275408

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



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Tab 7

Tower Engineering

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 11 Registered Professional Engineers and nine (9) LEED Approved Professionals

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
- Security systems

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

COMMISSIONING

- New Construction Commissioning
- Renovation Commissioning
- Retro-commissioning
- Recommissioning
- Value Recommissioning

STRYKER BRIGADE COMBAT TEAM READINESS CENTER & OMS

ARMY NATIONAL GUARD - CAMBRIDGE SPRINGS, PA

YEAR COMPLETED:
2008

SQUARE FOOTAGE
89,700

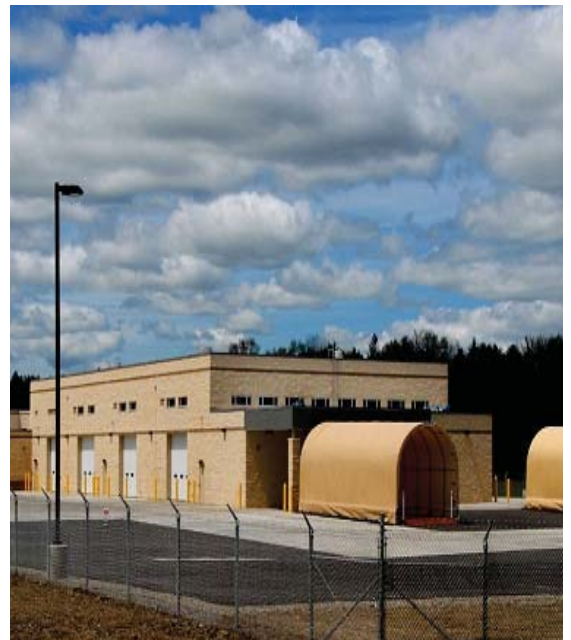
TOTAL CONSTRUCTION COST
\$19.6 million



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).



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 seamroof, 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.



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



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."



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

WEST VIRGINIA RENOVATION PROJECTS



BridgeValley Community and Technical College

Grant County Board of Education - Petersburg, WV
Petersburg Elementary RTU Replacement

Mercer County Board of Education - Princeton, WV
High School Addition

Monongalia Health System - Morgantown, WV
Renovations for ICU Suite

Berkeley County Board of Education - Inwood, WV
Musselman Middle School Renovation/Addition

Clay County Board of Education - Clay, WV
High School Auditorium/Classroom Addition



Musselman Middle School

BridgeValley Community and Technical College, South Charleston, WV
Restoration/Renovation

West Virginia University, Morgantown, WV
WVU Tech Interior and Exterior Renovations
Brooks Hall - Lab Renovation
Honors Hall
Law Building Phases I, II and III
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

Brooke County Board of Education - Follansbee, WV
Hooverson Heights Primary School
Bethany Primary School

Cacapon Resort - Berkeley Springs, WV
Lodge Renovation and Expansion

Fairmont State University - Fairmont, WV
Engineering Technology Building
Conference Center Computer Lab
MATEC Hangar Fire Protection Systems Evaluation

West Liberty University - West Liberty, WV
Shall Hall Renovations



Fairmont State University, Engineering Tech



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-C [REDACTED]

PE, West Virginia
PE-C [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, PE, 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





STEPHEN J. KISAK, P.E.

PRINCIPAL, VICE PRESIDENT
ELECTRICAL ENGINEERING DEPARTMENT

Mr. Kisak provides electrical engineering design services for Tower engineering projects in all sectors, and serves as the firm's in-house Arc Flash expert.

His primary responsibility is for the preparation of technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

Steve's design responsibilities include lighting, power, and system designs for buildings; design of medium voltage distribution systems for college campuses; data center power system design; low voltage power system and switchgear design; industrial power system design; emergency power systems design; and short circuit/coordination/arc flash hazard studies. Additional responsibilities include client contact, field observation, and project management.

EDUCATION

BS Electrical Engineering
University of Pittsburgh 1988

MBA Frostburg University 1997

REGISTRATION

PE, Pennsylvania

PE-0 [REDACTED]

PE, Virginia

PE- [REDACTED]

REPRESENTATIVE EXPERIENCE

Allegheny Energy Operations Center

New Command Center and Office

Pennsylvania Army National Guard - Connellsville, Pennsylvania

New Readiness Center

Stryker Brigade Combat Team - Cambridge Springs, Pennsylvania

Readiness Center & OMS

VA Pittsburgh Medical Center - Pittsburgh, Pennsylvania

Inpatient Pharmacy Renovation

IMRT and IMRT2 Renovations

New Parking Garage

Radiology Dept Offices

Parking Garage New Substation

West Virginia Army National Guard - Fairmont, West Virginia

New Readiness Center



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]

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



WILLIAMSON

SHRIVER

ARCHITECTS

www.wsgarch.com

Tab 8

Terradon Corporation

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



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

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.

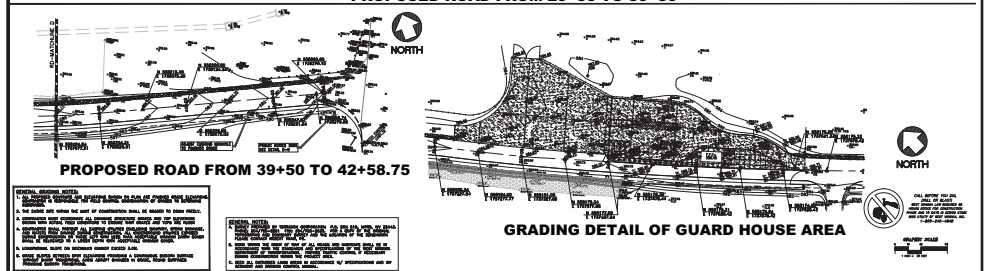
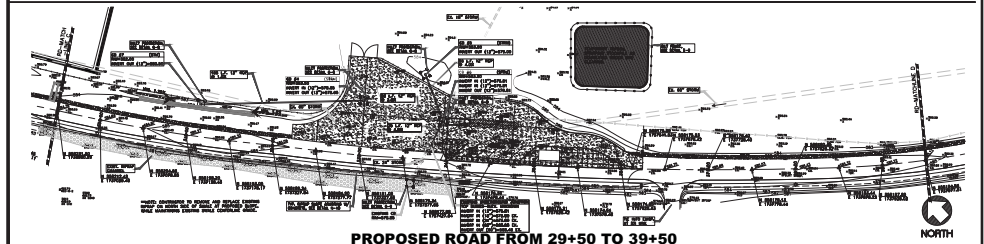
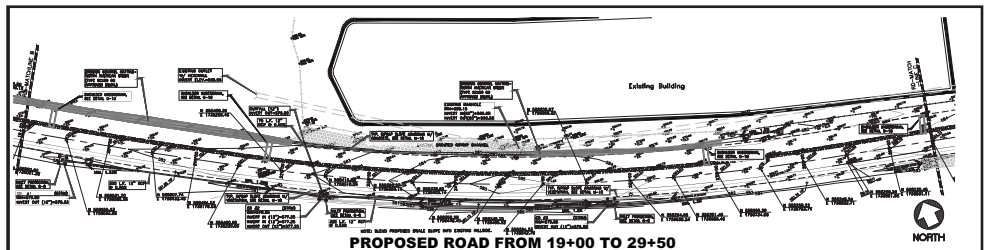
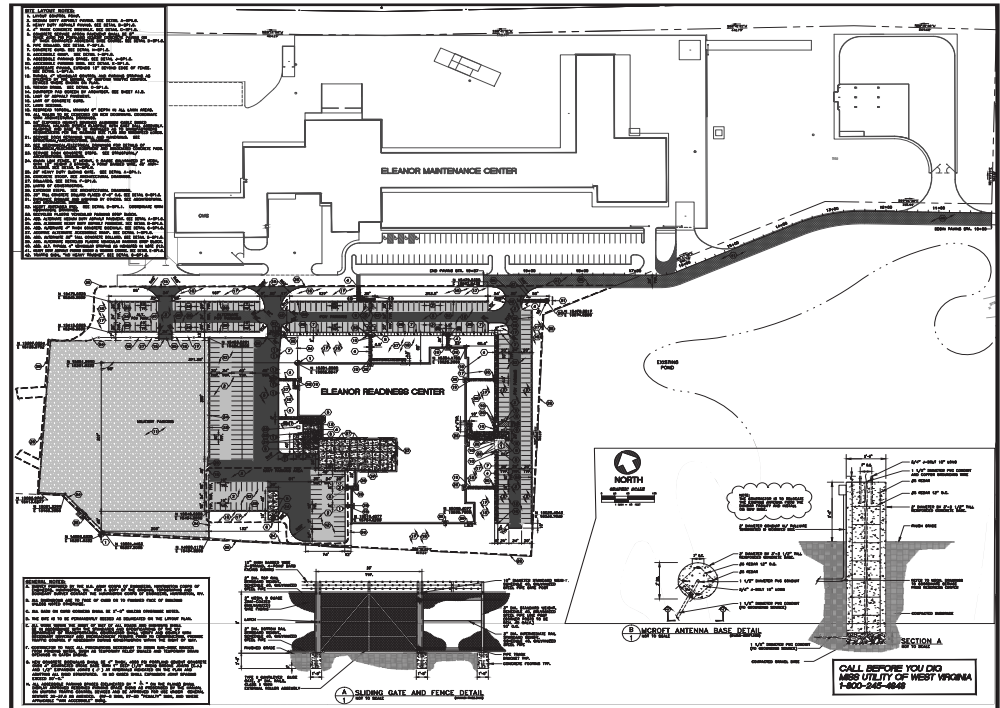


PRIOR EXPERIENCE - WV National Guard

WV Army National Guard Readiness Center, Eleanor, WV

TERRADON Corporation, as a subconsultant, provided site civil engineering design for the WV Army National Guard facility at Eleanor WV.

TERRADON was a part of the design/build team and created civil engineering plans & specifications for the readiness center, maintenance building, guard house access road (for standard vehicles) and entrance road (for tanks).





Williamson Shriver Architects, Inc.
717 Bigley Avenue . Charleston . WV . 25302
www.wsgarch.com

