



EXPRESSION OF INTEREST
West Virginia Army National Guard
National Readiness Center - Parkersburg, WV
RFQ#DEFK10013

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WV PURCHASING
DIVISION

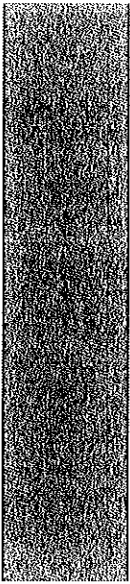


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ASSOCIATES • ARCHITECTS

405 Capitol Street, Upper Atrium
Charleston, WV 25301-1727
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email: info@silling.com

April 7, 2010

Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Re: EXPRESSION OF INTEREST, RFQ#DEFK10013

Dear Committee Members:

Silling Associates, Inc. is pleased to submit our qualifications for the new National Readiness Center for the West Virginia Army National Guard located in Parkersburg.

Silling Associates is the longest continuing architectural practice in the state of West Virginia with origins from 1902. For over a century, Silling Associates has delivered exceptional architectural services to an immensely diverse clientele. The commonality of our work is not depicted in any particular architectural style or design vocabulary. Rather, our work is about a great appreciation of people – those people that entrust in us the responsibility of creating space through the investment of human and financial resources. We hope that our designs resemble who they are, and hope that our services are delivered with a care that resembles our client relationships.

Given our firm's diverse level of planning and design experience within the West Virginia marketplace, we feel particularly suited to provide exceptional service to the West Virginia Army National Guard. In addition to our past work with both the West Virginia Army and Air National Guard, we offer appropriate design experience involving governmental offices, general and technical classrooms, multi-purpose and recreation halls, locker/shower rooms, conference rooms, emergency response centers, weapons storage rooms, and commercial/industrial vehicular maintenance garages, to name just a few. Furthermore, our extensive experience working with the Division of Corrections and numerous governmental justice centers has provided us with an exceptional understanding and application of physical and electronic security design for both sites and buildings.

While our Design Team is very proud of the architectural solutions we have sought in partnership with our clients, we are most proud of the level of service we have provided and, more importantly, humbled by the level of trust we have earned from the people we serve. We believe you will see and hear from our references that we are committed to client service and work very hard to exceed every expectation of our projects, and that we are called on repeatedly by the people for which we work. Silling would very much enjoy continuing a long-lasting personal and

professional relationship with the WV Army National Guard, doing all that we can to help them be successful in West Virginia and beyond.

We have assembled this Expression of Interest that highlights our firm's histories, services, project experience, professional resumes, and collaborative approach to these projects for your review. Our hope is that you will see a very strong team of designers, led by firm principals, and a company that has a legacy in West Virginia. You will see that our team has an incredibly broad range of experiences and has earned a reputation as problem solvers with a unique combination of research skills and creative thinking required to develop something meaningful yet cost effective. Working within the local marketplace, we are accustomed to maintaining strict design schedules and budgets and are routinely charged with doing more for less.

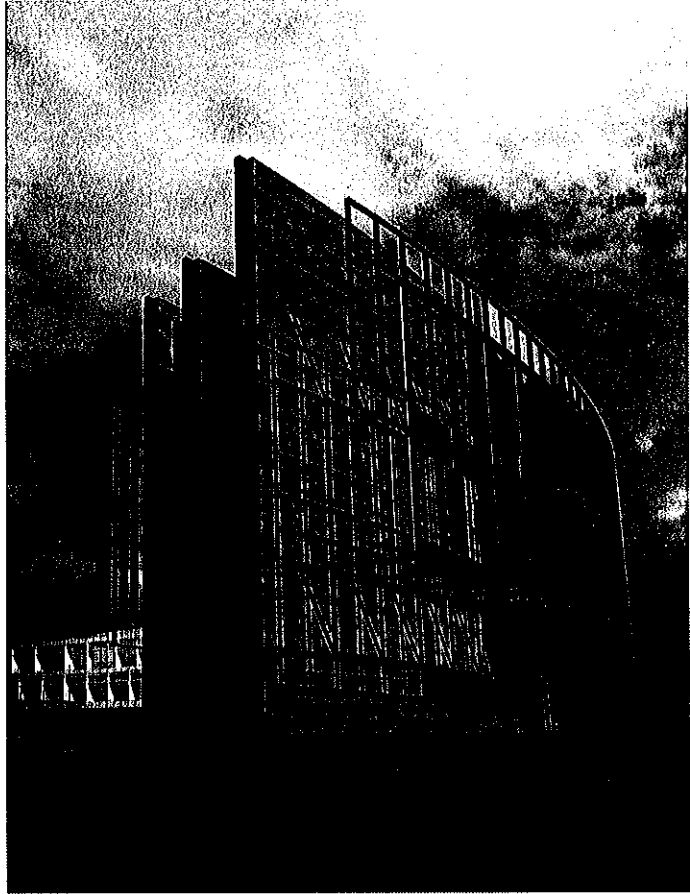
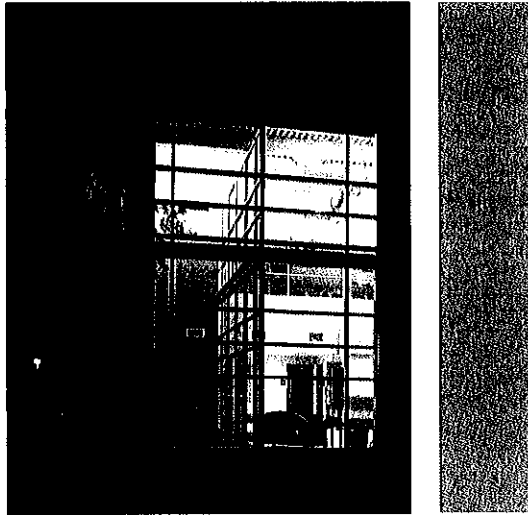
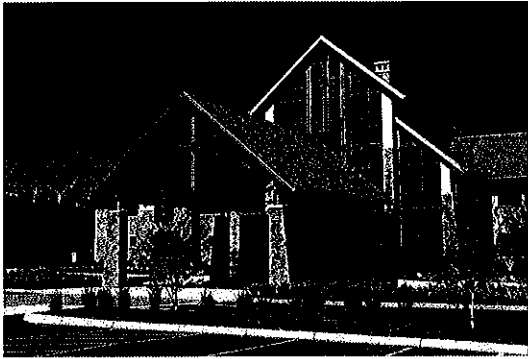
We would love to talk more with you in a personal interview about your project and give you a greater sense of the hard work and honesty that you would get from the Silling team.

We look forward to the opportunity to meet with you soon.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas M. Potts". The signature is stylized and cursive, with the first name being the most prominent.

Thomas M. Potts, AIA
Principal

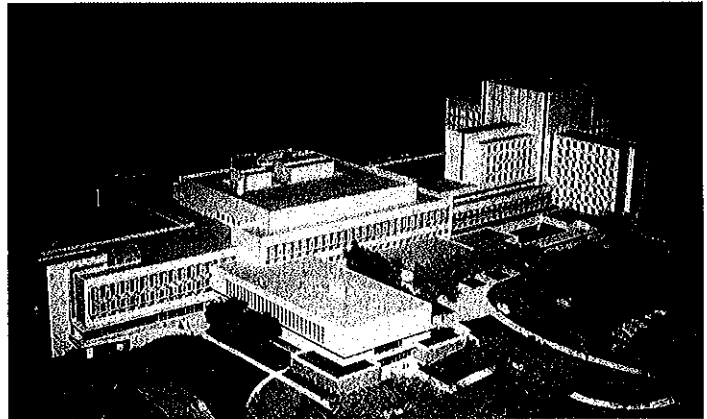
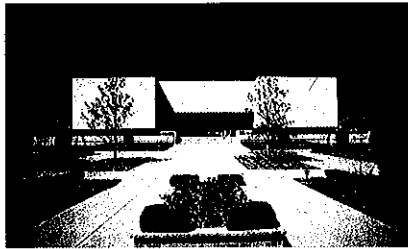
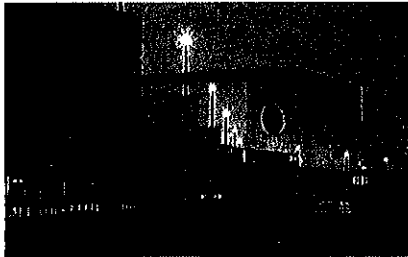


About SILLING ASSOCIATES

Architectural success is measured by vision and an unwavering dedication to excellence. This axiom was the philosophical birth of Silling Associates Incorporated by H. Rus Warne in 1902. Following the lead of partners like Warne and its namesake, Cy Silling, the firm today has the proud distinction of being the oldest continuing architectural firm in West Virginia and one of the oldest in the eastern United States. Throughout, Silling Associates has woven itself into the very fabric of West Virginia, providing planning and architectural services that have touched the lives of virtually every citizen and delivering landmark projects collectively defining its built environment.

Whether through its early century beaux arts and neo-classical collection, its mid-century modern and post-modern portfolio, or its current contextual vocabulary, Silling has always been renowned as one of the premier architectural firms in the state. Today, Silling Associates continues to have a powerful impact on the region's architectural landscape through fresh, yet solid design and responsible project management.





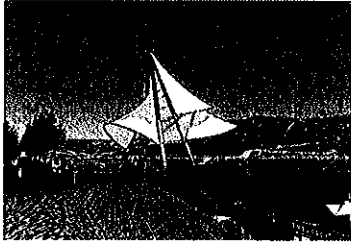
Notable Projects

- Charleston City Hall
- Charleston Civic Center Coliseum
- Charleston Federal Building
- City Center East
- Huttonsville Correctional Center
- Imperial Towers
- Kanawha County Courthouse
- National Bank of Commerce Office Tower
- Stonewall Jackson High School
- West Virginia Science & Cultural Center
- West Virginia University Coliseum
- West Virginia University Mountainlair
- West Virginia University Medical Center

Firm Timeline

- 1902.....H. Rus Warne
- 1921.....Warne, Tucker, & Patteson
- 1928.....Warne, Tucker, Silling, & Hutchinson
- 1936.....Tucker & Silling
- 1950.....C.E. Silling & Associates
- 1977.....Silling Associates Incorporated
- Present





DESIGN Philosophy

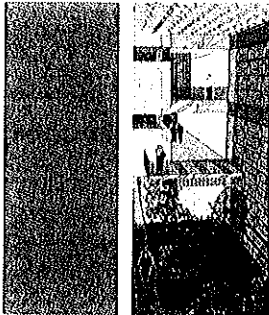
At Silling, design drives everything that we do in architecture, planning and interiors. We believe that design fulfills and propels each client's goals and aspirations; that design articulates spaces to new levels of effectiveness; that design engages, inspires and fulfills; and that design elevates the human experience.

We begin each project by listening to our client. We listen to understand a client's vision, goals and objectives. We believe the concept of design in architecture applies not only to sketches, plans, specifications, and the building process, but to every aspect of the project. We design each project in a synthesis of everything that we heard from a client, and of our own professional design expertise--working collaboratively and uniting all professional disciplines in the process to create truly integrated design solutions. We deliver each project with responsive service and technical excellence to the complete satisfaction of our client, which is the ultimate measure of our success. This is why you can depend on Silling to walk you through every phase of the process.

From our firm's inception over 100 years ago, Silling has remained committed to four essential principles: listening to the needs of our clients, understanding the challenges they face, solving their problems, and producing high quality results. These guiding principles are contributing factors to the foundation and success of every project Silling undertakes. We are dedicated to providing outstanding analysis, planning, design, and construction for every one of our projects.

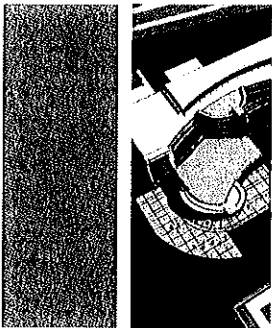


Our Services



INTRODUCTION

Today's dynamic marketplace demands versatility of the design professional. Silling Associates is structured to meet the needs of design/build, construction management, and the traditional design/bid/build delivery methods. Technology has driven the demand for increased design specialization. Collaboration and consensus are principles that are critical to the success of a project. Our staff has a track record of successful projects created both independent of, and in concert with, the most talented professionals within a given building type and engineering discipline. We are committed to delivering quality through understanding the nature of the project and composing the appropriate talents to achieve design excellence.

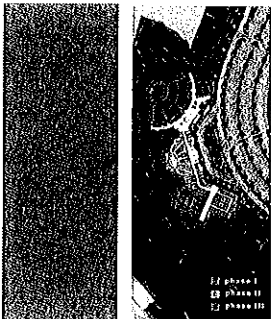


FEASIBILITY STUDIES

When an owner is exploring the possibility of, or is seeking justification for, a given project they turn to an architect to provide this service. Over the years, Silling has been called upon to assist numerous clients in making decisions relative to the development of a project.

Our first assignment involves the assimilation of information regarding a client's wants and needs and the general scope of the project being considered. It is from this data that we glean important facts that constitute the basis of our study.

An outline is prepared; ideas and concepts which we deem workable are considered and developed; and associated costs are computed. The result is a finished product which allows the owner to effectively weigh the pros and cons of a proposed project and make an educated judgment as to its feasibility.



MASTER PLANNING

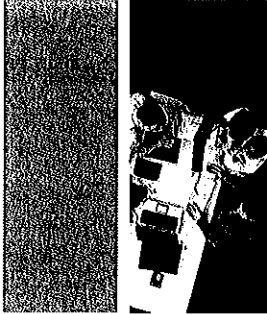
Silling Associates is well-respected throughout the industry for its insightful, viable planning services. Over our storied history, Silling has prepared Master Plans for the State Capitol Complex, various institutions for higher education, regional medical centers, courthouse campuses, worship centers, as well as corporate offices, to name a few.

Our Master Plans feature a thoughtful blend of functionality and aesthetics—cost-conscious solutions which fit a client's expressed criteria. The process begins with an overview of the site—defining its parameters; determining site conditions both above and below ground; and assessing existing structures. Taking these factors into consideration, our design experts go to work committing their vision to a three-dimensional computer-generated image of the project. It is this methodology which allows the client an opportunity to "visit" the site and take a virtual tour of the project.

Silling's successful ongoing relationships with our clients serve as testament to our success in assisting them in developing successful strategies and accurate assessments of their existing facilities to both determine their current needs and define their future goals.



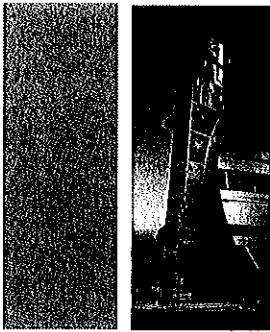
Our Services



PROGRAMMING

Exploration of the building concept is but a single element in the steps of the design process. Silling Associates utilizes a proven Design Approach Method that permits a high degree of interaction from the facility's end-users at every level of design.

During programmatic workshops, we begin with documentation, which indicates general building considerations, proposed building sites, and lists each required space with its relative required square footage. We analyze proposed sites and make appropriate recommendations. We seek to identify the broader issues of circulation, function, building image, and project budget. The programmatic requirements are the point of departure for the generation of both a two- and three-dimensional design solution. The internal circulation structure becomes the organizing element—the backbone for the alignment of space. Departments are grouped. Commonality and order are sought with the structural and mechanical systems in mind. The arrangement of components with respect to security, public arrival, departmental flow, relationship to natural light, and code-required egress are all explored. The relationship to the site is considered, orientation to the sun, to views, parking, and other site amenities are incorporated. Silling utilizes sophisticated three dimensional computer modeling as a vehicle to realistically study the variety of options that arise. This modeling tool provides the client a real ability to visualize and make sound design choices.



SCHEMATIC DESIGN

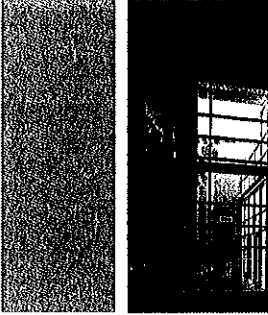
For over a century, Silling has delivered exceptional architectural services to an immensely diverse clientele. The commonality of our work is not depicted in any particular architectural style or design vocabulary. Rather, our work is about a great appreciation of people – those people that entrust in us the responsibility of creating space through the investment of human and financial resources. We hope that our designs resemble who they are, and hope that our services are delivered with a care that resembles our client relationships.

Through a proven Design Approach methodology, we begin the design's development with further analysis of the proposed site. We routinely explore iterations of the preferred concept to perfect the space planning, site planning and ideas for exterior expression. Development of building floor plans result in a depiction of the arrangement of all of the functional components, the illustration of the building circulation, and the detail indicating the size and relationship of all spaces. The process then includes the development of the site plan to include pedestrian and vehicular site circulation, topography, site features and utilities. Three-dimensional models and video animation are typically developed to best convey the building and its features in site context.

The Schematic Design phase is a process of design proposal, review with the client, and the consideration of design alternatives to achieve the highest degree of functionality and expression while developing consensus.

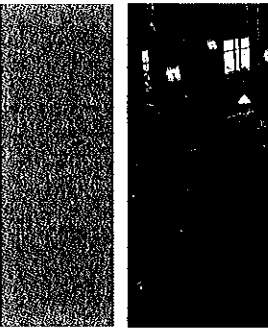


Our Services



DESIGN DEVELOPMENT

The Design Development phase is focused on the selection of building materials and systems and continues to involve uncovering the needs of the end-user(s). Design reviews are held generally on a biweekly basis with the appropriate groups and input into the design is documented. The architectural and engineering team pay particular attention to the quality of the design, its documentation, and agreement with the original goals detailed in the workshop process. Selections are tested against the overall project budget. Value engineering and choices are made, if necessary, to align project scope against costs. Code officials are included in the design process to build consensus and eliminate future potential surprises, and a formal quality control group begins their evaluation of generated documents. Drawings and specifications are reviewed for agreement with recognized standards of detailing and documentation. Specifications are evaluated for alignment with drawings and their ability to generate competitive bids



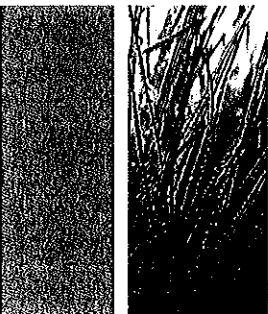
INTERIOR DESIGN

Over the years, Silling Associates has accumulated a substantial portfolio of projects for a wide variety of building types, sizes, and complexities. The firm has a particular strength in defining client needs for interiors planning, function, feasibility, and image -- both in new construction and renovation projects.

We offer a comprehensive list of interior design services including:

- Space Planning - Furniture & Accessories Design
- Conceptual Design - Furniture Specifications
- Strategic Consulting - Purchasing Coordination
- Adaptive Reuse - Budget Planning

Our clients routinely call on us to create interior environments that will enhance the performance of their products, services, staff, and visitors. Our talented interior designers have an ability to provide numerous design solutions and alternatives for virtually every project type and budget.



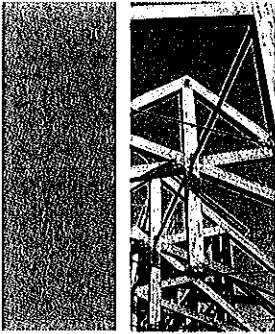
SUSTAINABILITY & LEED CERTIFICATION

The environments where our clients live, work, and play impacts discovery and changes lives. At Silling, this is a responsibility that we take very seriously. Good design and sustainability should work together to result in increased building efficiency, improves users' health and productivity, conserves the Earth's resources, and reduces operational and maintenance costs. A building should wear its sustainability not only as a demonstration serving to inspire those who interact with the facility, but also as a model of achievement for the community. Our approach to creating sustainable buildings begins with the following core design principles: optimal use of the site, use of non-renewable energy consumption, use of environmentally preferable products, conservation of water, enhancement of indoor air quality, and optimization of operational and maintenance practices.



Our Services

Our team of LEED-accredited design professionals provide leadership in defining sustainable planning initiatives for each project, implementing sustainable strategies, and working through the LEED Certification process. As a member of the United States Green Building Council (USGBC), we are committed to creating environmentally and economically effective buildings for our clients and communities.

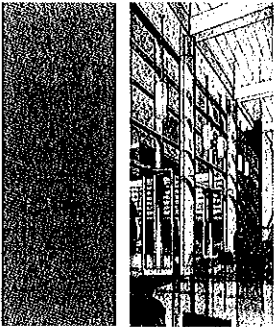


CONSTRUCTION PERIOD MANAGEMENT

Pre-construction meetings are facilitated by the design team and a clear definition of project goals and owner's expectations are verbalized. Submittals, product samples, and shop drawings are thoroughly reviewed for conformance to the contract drawings and specifications. Throughout construction, designer and owner's representatives attend weekly or biweekly progress meetings to maintain clear communication with builders and continually monitor the project schedule.

In addition, architects and engineers periodically visit the construction site to observe installation of materials and systems and to verify their conformance with the design intent. Contractor's pay applications are reviewed and approved by the designers to ensure a fair disbursement of the total construction cost.

We conduct final inspections upon substantial completion and routinely assist in the occupancy of the facility by the owner.



PROJECT DELIVERY

Many clients today are faced with the difficult decision of how to develop their project. A major capital building program involves important decisions regarding the method by which the projects will be designed and constructed - the project delivery method. This decision has become more complex as a variety of alternative delivery methods have been developed in addition to traditional design-bid-build process. Methods that have gained in popularity include fast-track construction, multiple prime contracting, and design-build. Though each of these delivery methods offers its share of positive attributes to project developers, there are inherent "risks" and potential shortfalls as well. Issues such as competitive pricing versus guaranteed maximum pricing, project schedule, single/multiple source responsibility, change orders, owner liability, and quality control must all be considered prior to choosing the RIGHT delivery method for you.

In addition to our long and successful record of managing design-bid-build projects, Silling Associates has considerable experience in successfully delivering a diverse mix of building projects, large and small, in some of the newest, most collaborative construction delivery models in the marketplace in concert with many of the region's leading general contractors and design builders.

We encourage you to call on the experienced leaders at Silling to "walk" you through the project delivery evaluation process and help you make the RIGHT decision for your project.



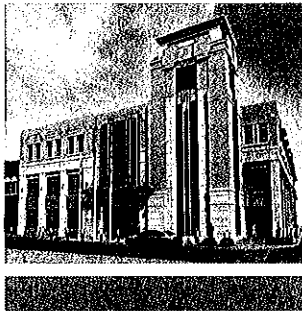
Project Approach & Quality Control



Silling approaches each project by assigning a project principal, who personally monitors all aspects of the project. In many cases, including the more complex and demanding projects, this same principal will be responsible for the day to day management tasks. The firm is extremely careful not to exceed its workload capabilities in order to assure the "hands on" organization desired by the principals, as well as to maintain the ability to meet client schedules.



In addition to the project principal, each project is assigned a project manager, project architects, production personnel, and additional support staff in accordance with scope requirements. In-house reviews are regularly conducted to assure that all schedules and milestone dates are met. All programming, design development, and contract documents are thoroughly re-examined as a basic procedure of the firm's quality assurance/quality control program.



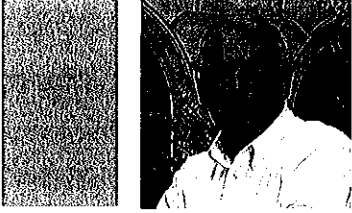
Specialized resources and capabilities of the firm include an in-house construction period service management division. This resource allows the firm to offer its clientele a variety of project approaches, including conventional design/bid/build, negotiated contract, and design/build delivery methods.



Silling Associates is diligent in its effort and commitment to provide its clients with design solutions that are functional and aesthetically enlightening while remaining within the limitations of project budgets. Silling utilizes a multi-step approach to managing the design response to meet project budgetary requirements. This approach includes several steps: assessment of the owner/user program requirements relative to the budget, evaluation of building code and other regulatory concerns, estimation of budget impact due to unforeseen conditions and circumstances based upon prior similar experience, and continuous value engineering during all design and construction document phases. Construction cost estimates are routinely developed utilizing in-house resources, collaboration with local construction experts, or through professional cost estimating consultants. If the construction estimate at any phase exceeds the project construction budget, the scope of work is evaluated and, if necessary, adjusted accordingly. Silling has a consistent history of meeting project budget requirements and providing the owner/user with the greatest value for their investment.

Likewise, the experienced senior staff at Silling control the design phase schedule through careful planning of design phase tasks. A design and construction documents schedule, similar to a contractor's critical path construction schedule, is created for every project. Project design, management, and delivery progress is monitored using a proven Project Review System that tracks the actual design schedule against the projected schedule so that course corrections, if needed, can be made effectively. Project Review results are shared with the client at regularly scheduled meetings. Silling values meticulous project management and careful construction documentation; this ensures that all documents, at every phase of the project, will be delivered on schedule.





Thomas M. Potts, AIA
Principal

PROFESSIONAL BIO

Tom is president of Silling Associates. A thirteen-year member of the firm, Tom has been a driving force in securing and implementing new work. He oversees projects from inception to completion, working closely with clients and contractors to insure the success of projects under his direction. He takes a "hands-on" approach to each and every project, working closely with clients to define and detail requirements for their facilities.

He has considerable experience in the design of justice facilities, including courthouses, judicial centers, and correctional institutions. With over 1 million square feet of justice-related designs under his belt, Tom has led the firm's efforts in making Silling a regional leader in the field of justice architecture.

Tom graduated with honors in 1990 from the University of Tennessee College of Architecture and Planning. He is a member of the American Institute of Architects and is past president of the West Virginia Chapter of the American Institute of Architects.

EDUCATION

Bachelor of Architecture with High Honors
The University of Tennessee 1990

LICENSES & CERTIFICATIONS

Licensed to practice architecture West Virginia (1994) , Virginia (2001)

PROFESSIONAL AFFILIATIONS

West Virginia AIA, Ex-President & Executive Committee Member
Academy for Justice Architecture, American Institute of Architects

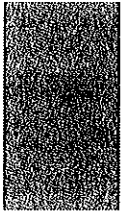
AWARDS & RECOGNITION

2004 AIA WV Honor Award for Excellence in Architecture, Star USA Federal Credit Union

MILITARY EXPERIENCE

Sergeant, United States Air Force, 1977-1981
Nellis Air Force Base, Las Vegas (NV)





Jody S. Driggs, AIA
Principal

PROFESSIONAL BIO

Jody is a principal with Silling Associates with fourteen years' experience in the design practice. He has led the development of design concepts for a diverse mix of project types, size, and complexity. As a project architect, he is responsible for working closely with the owner to establish clear programmatic needs and design criteria, as well as to develop responsive schematic site plans, floor plans and elevations that blend the meaning and spirit of the owner's program with site and cultural forces.

His conceptual design talents, artistic ability, and versatility have been illustrated in such projects as the award-winning James C. Wilson Student Union, Bible Center Church, Chesapeake Energy's Eastern Regional Headquarters, Tri-State Racetrack and Gaming Center Hotel, and the West Virginia Lottery Headquarters.

Prior to joining Silling, Jody worked in the Urban Design Consultancy Studio in Chattanooga, Tennessee, under AIA Thomas Jefferson Award Winner J. Stroud Watson. Jody is a 1996 graduate of the University of Tennessee College of Architecture and Planning, a member of the American Institute of Architects, a member of the WVAIA Scholarship Committee, and 2010-2011 president for the WVAIA (2010-2011).

EDUCATION

Bachelor of Architecture
The University of Tennessee 1996

LICENSES & CERTIFICATIONS

Licensed to practice architecture in WV, KY, OH, MD, PA

PROFESSIONAL AFFILIATIONS

Past Vice-President, WV Chapter, American Institute of Architects, 2008-2009
President, WV Chapter, American Institute of Architects, 2010-2011

AWARDS & RECOGNITION

-2005 AIA WV Merit Award for Achievement in Architecture, James C. Wilson Student Union
-2006 The State Journal "40 Under 40" Award Winner
-2007 West Virginia Executive "Young Gun" Award-Winner
-2008 AIA WV Honor Award for Excellence in Architecture, Chesapeake Energy Eastern Regional Headquarters





Edward Weber, AIA, LEED AP

Senior Associate

PROFESSIONAL BIO

Ed has seventeen years' experience as a practicing architect with significant work in all phases of architectural programming, schematic design, design production and construction contract administration. After graduating from Notre Dame in 1992, Ed joined the Chicago office of Richard Gibbons and Associates. There he managed high-end custom residential projects of renovation and new construction work with construction budgets between \$500,000 and \$20,000,000. In 1999, Ed was offered partnership and the firm of Gibbons, Fortman & Weber was created in January of 2000. Under GFW, the office work expanded and projects became more diverse with commissions for hospitality design of restaurants and lounges, as well as residential and commercial developments throughout the city. Having joined Silling Associates in 2006, Ed brings his extensive project management experience and design talent to the firm's major commissions. His involvement is specifically appropriate in those projects pertaining to campuses and master plans, urban settings, historic contexts, and residential scale.

With Professional Accreditation by the U.S. Green Building Council (USGBC) in coordination with the Green Building Certification Institution (GBCI), Ed holds the title of LEED AP for New Construction and Major Renovations. As a LEED AP (Leadership in Energy and Environmental Design), Ed has distinguished himself as having the knowledge and skills necessary to participate in the design process, to support and encourage integrated design, and to streamline a building's LEED application and certification process.

EDUCATION

Bachelor of Architecture
University of Illinois, Chicago 1986

Master of Architecture and Urban Design
University of Notre Dame 1992

LICENSES & CERTIFICATIONS

Licensed Architect in West Virginia & Illinois

PROFESSIONAL AFFILIATIONS

Self-Certified Architect, City of Chicago, DCAP; Registered Energy Professional, City of Chicago, DCAP;
Former Board of Directors, Habitat for Humanity, Windy City Affiliate Former Construction Committee Chair,
Habitat for Humanity, Windy City Affiliate





Sean Simon, AIA

Construction Period Service Manager

PROFESSIONAL BIO

Sean has sixteen years' experience involving all phases of architectural programming, design, construction document production, and construction contract administration. From 1998 through 2007, he operated his own architectural practice providing comprehensive design and project management services for a variety of project types including banking, commercial, government, education, health care, religious, and residential.

Sean joined Silling in 2008 as a Construction Period Service Manager, working closely with the firm's production staff throughout the construction document phase and providing construction contract administration services. He is responsible for facilitating pre-construction meetings providing clear definition of project goals and owner expectations, reviewing contractor submittals, product samples, and shop drawings for conformance to the contract drawings and specifications, attending progress meetings to maintain clear communication with builders, observing installation of materials and systems to verify their conformance with the design intent, and monitoring the project schedule.

Sean earned a Bachelor of Architecture from the University of Tennessee in 1992 and is a member of the West Virginia Chapter of the American Institute of Architects.

EDUCATION

Bachelor of Architecture
The University of Tennessee, 1992

LICENSES & CERTIFICATIONS

Licensed to practice architecture in West Virginia, Maryland, Ohio, Virginia, and Pennsylvania.

PROFESSIONAL AFFILIATIONS

American Institute of Architects, West Virginia Chapter (AIAWV)

CIVIC INVOLVEMENT

Cub Scoutmaster for Pack 434—Serves as Unit Commissioner for Little Kanawha District, Allotak Council
Involved in Little Kanawha District Roundtable





Diversity of Experience.

ARCHITECTURE FOR JUSTICE

Courthouses
Judicial Centers
Governmental Administration
Correctional Institutions
Public Safety Centers

ARCHITECTURE FOR WORKING

Corporate & Office
Governmental
Banking & Financial
Retail & Hospitality

ARCHITECTURE FOR LEARNING

Colleges & Universities
Community & Technical Colleges
Secondary Education

ARCHITECTURE FOR WORSHIP

Worship Centers
Educational Centers

ARCHITECTURE FOR HEALTH

Hospitals & Medical
Medical Office Buildings

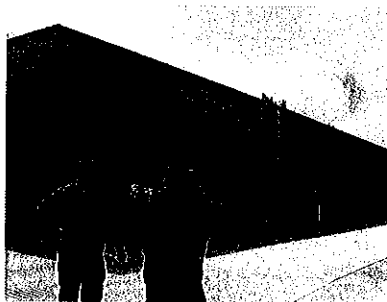
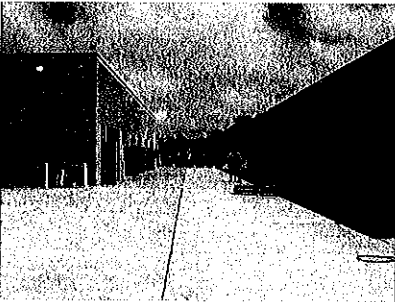
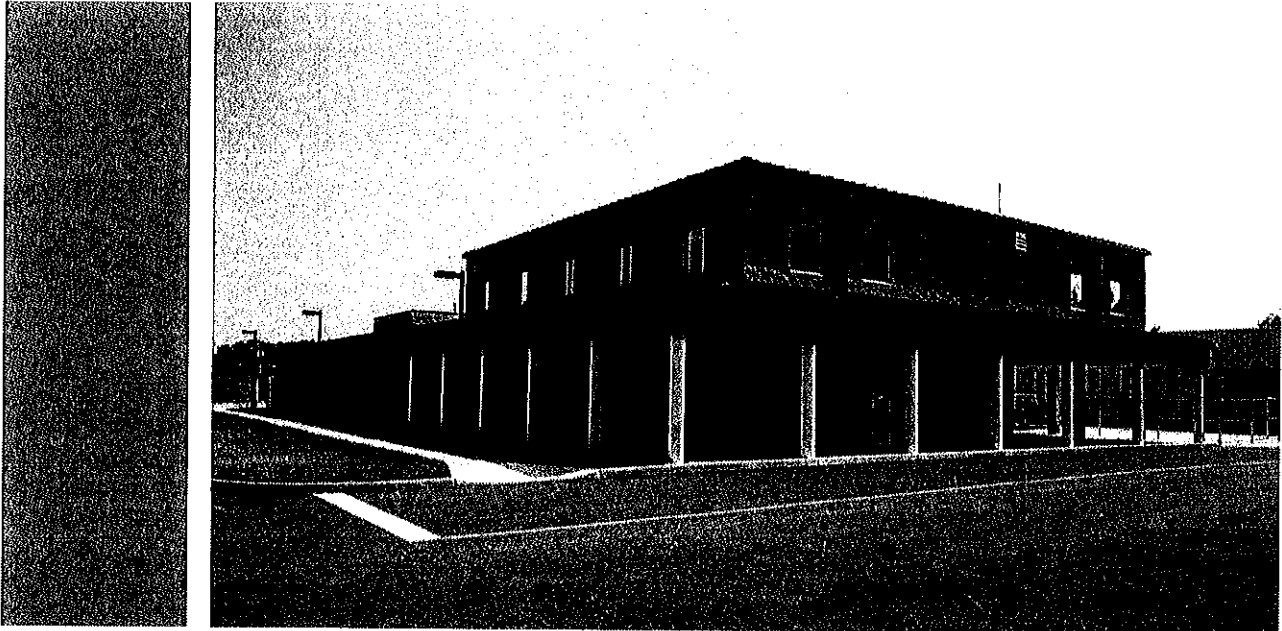
ARCHITECTURE FOR RECREATION

Hotels & Resorts
Riverfront Development
Athletic Recreation

ARCHITECTURE FOR LIVING

Custom Residences
Loft Housing & Urban Living
Condominiums





SIZE: 22,800 GSF

TYPE: NEW CONSTRUCTION

STATUS: 2003

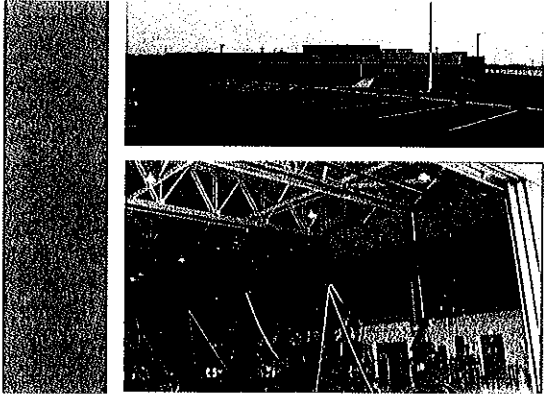
CONTACT: WV AIR NATIONAL GUARD, 130TH AIRLIFT WING, YEAGER AIRPORT, CHARLESTON

Civil Engineering Complex

West Virginia Air National Guard

The project included two-story, 19,000 square foot Civil Engineering Support Complex and a separate 3,800 storage facility. Budgeted at \$2.9 million, three of the four contractor bids were received within budget. The new facility provided new administrative offices, vehicular maintenance bays, training and education space, and storage.



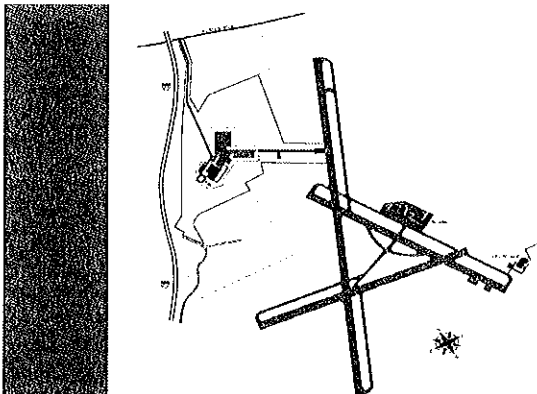


Project Name & Location: WV Army National Guard
Wheeling/Ohio County Airport
Wheeling, West Virginia

Project Cost (Completion): \$6,677,000 (1995)

Project Components:

- 33,397 sf maintenance facility
- 22,823 sf hangar
- Ground support buildings
- Package Sewage Treatment Plant
- 53,000 Gallon Water Storage Tank
- 190,000 sf flexible pavement including a .47 mile access road
- 255,160 sf rigid pavement including aircraft parking
- Fuel Dispensing System



Project Name & Location: Army Aviation Support Facility
WV Army National Guard
Wood County Airport
Parkersburg, West Virginia

Project Cost (Completion): \$5,167,000 (1995)

Project Components:

- 44,756 SF Maintenance Facility
- 21,420 SF Hangar
- Ground Support Buildings
- Fuel Dispensing System
- Water Supply Including a 53,000 Gallon Water Storage Tank
- 226,000 SF Flexible Pavement including a .47 Mile Access Road
- 275,000 SF Rigid Pavement



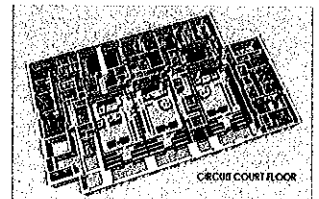
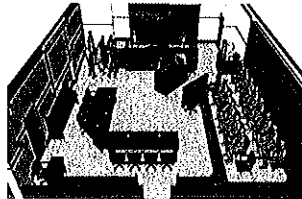
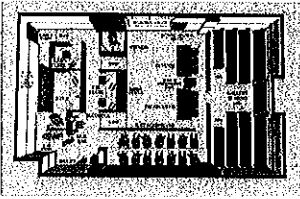
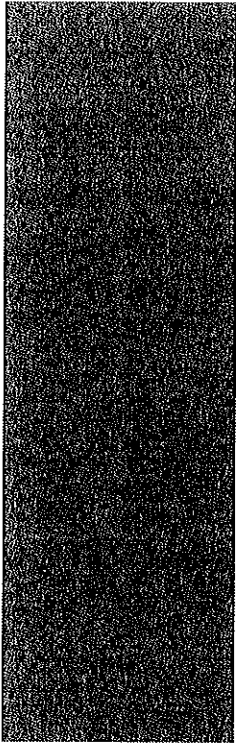
Project Name & Location: 130th Airlift Wing
WV Air National Guard
Yeager Airport
Charleston, West Virginia

Project Cost (Completion): \$2,052,000 (1993)

Project Components:

- Base Supply Warehouse
- Security Police Facilities





SIZE: 62,000 GSF

TYPE: NEW CONSTRUCTION

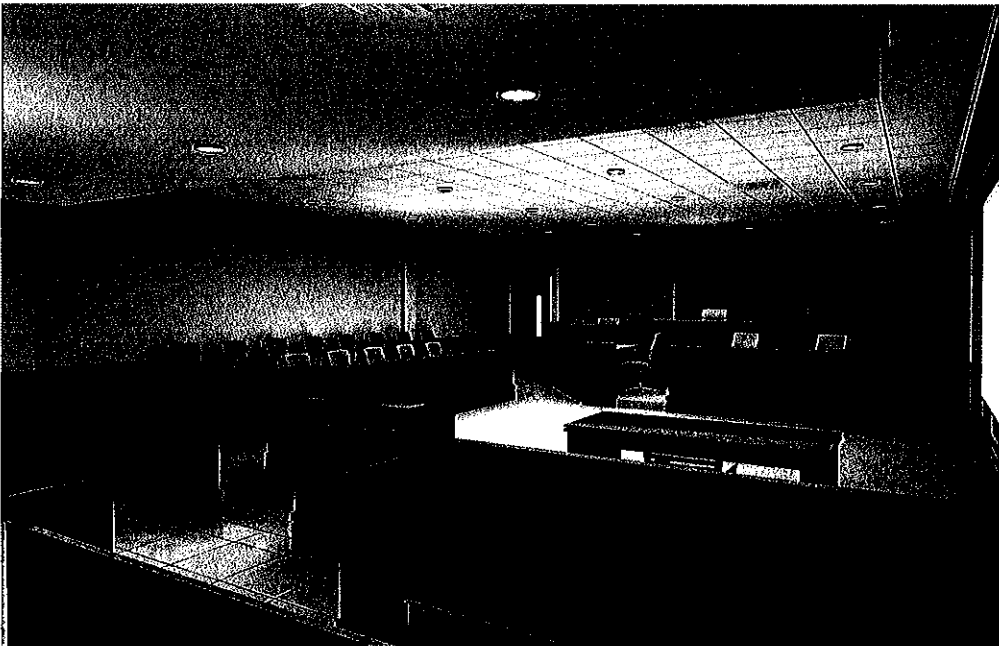
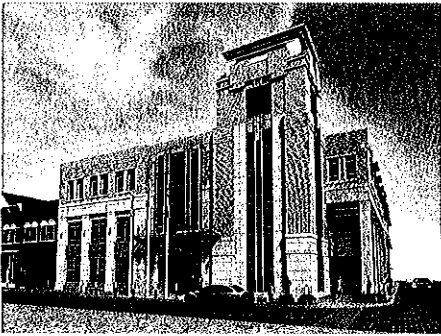
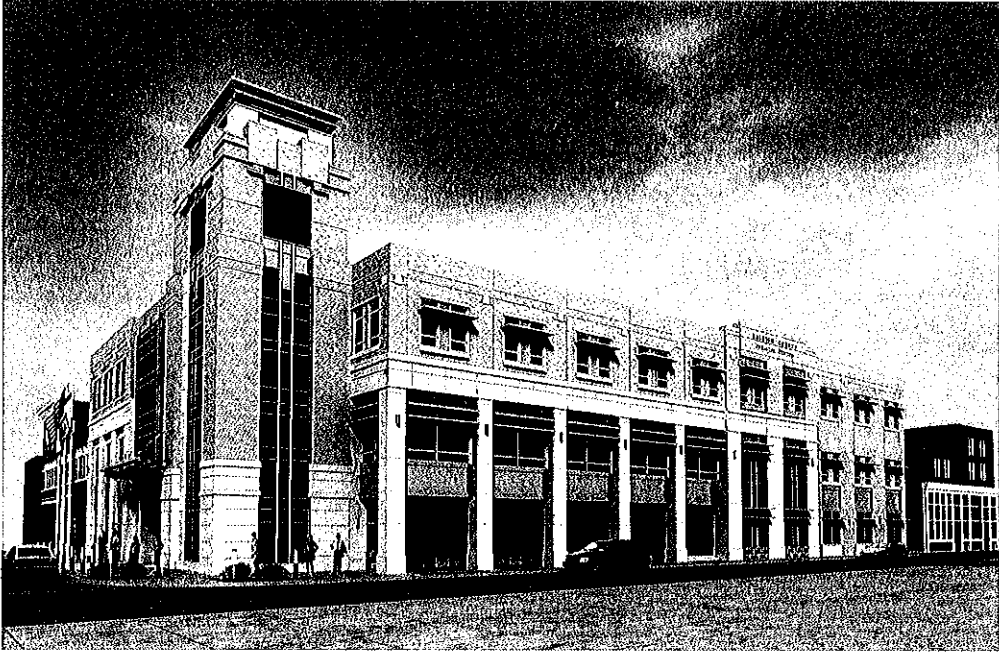
STATUS: FALL 2010 COMPLETION

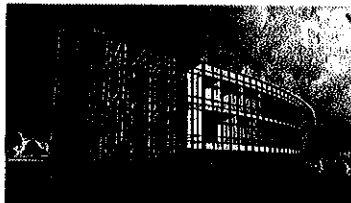
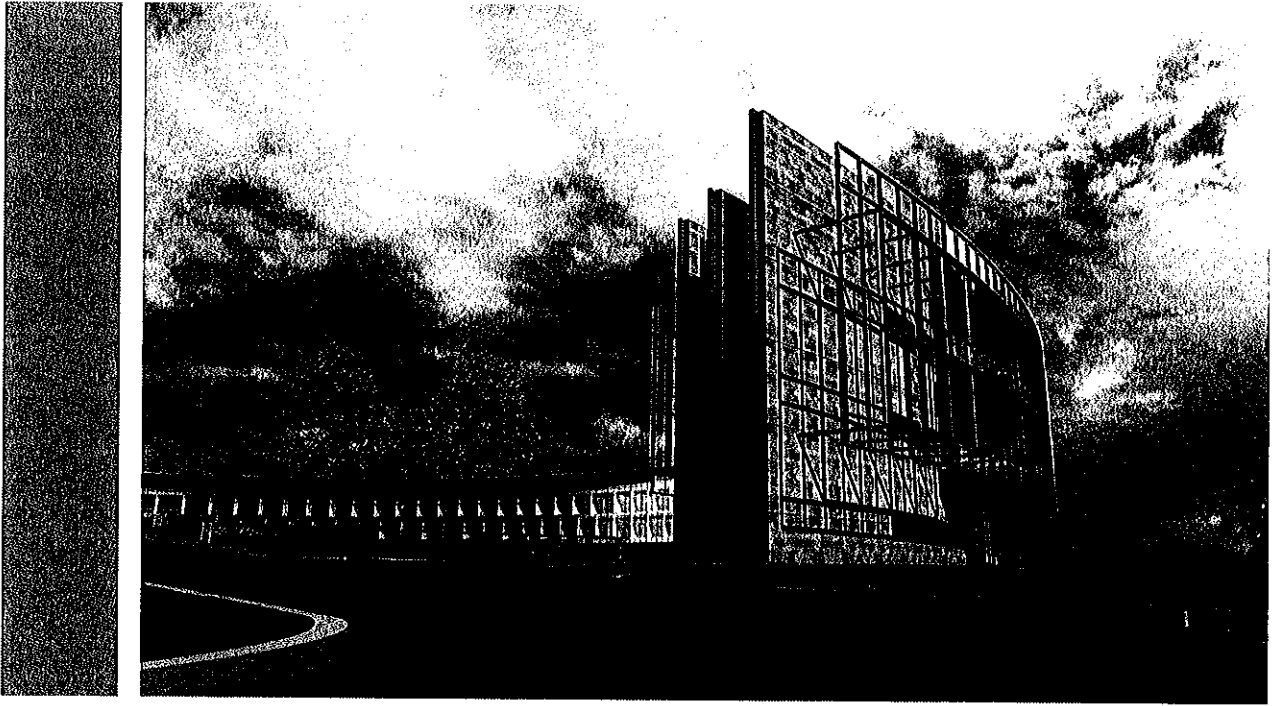
CONTACT: PAT REED, COMMISSIONER, RALEIGH COUNTY COMMISSION, 304.255.9146

Raleigh County Judicial Center Beckley, West Virginia

The new 62,000 square foot Judicial Center is situated on a prominent corner just opposite of the existing County Courthouse and the new Robert C. Byrd Federal Courthouse. It features three state-of-the-art circuit courtrooms (plus a planned fourth courtroom), two magistrate courtrooms (plus a future third courtroom), and two family courtrooms. A secure vehicular sally port is accessed from the lower level located along north side of the building. A central holding component allows for detainees to be safely and securely transported into the facility, and then vertically via secure elevators with direct access to the courtrooms. Additionally, the courts are supported by the Circuit and Magistrate Clerks, as well as related county service, administrative, and records storage space.







SIZE: 122,000 GSF

TYPE: NEW CONSTRUCTION

STATUS: CONSTRUCTION DOCUMENTS COMPLETE

CONTACT: DAN LEDONNE, CHESAPEAKE ENERGY,
1.405.879.9251

AWARDS: 2009 HONOR AWARD, AMERICAN INSTITUTE OF
ARCHITECTS, WEST VIRGINIA CHAPTER

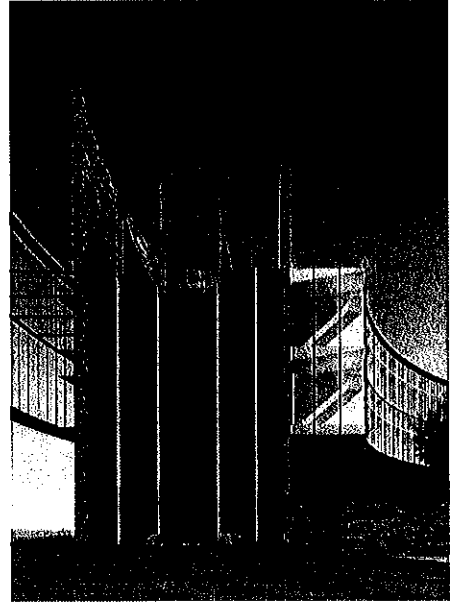
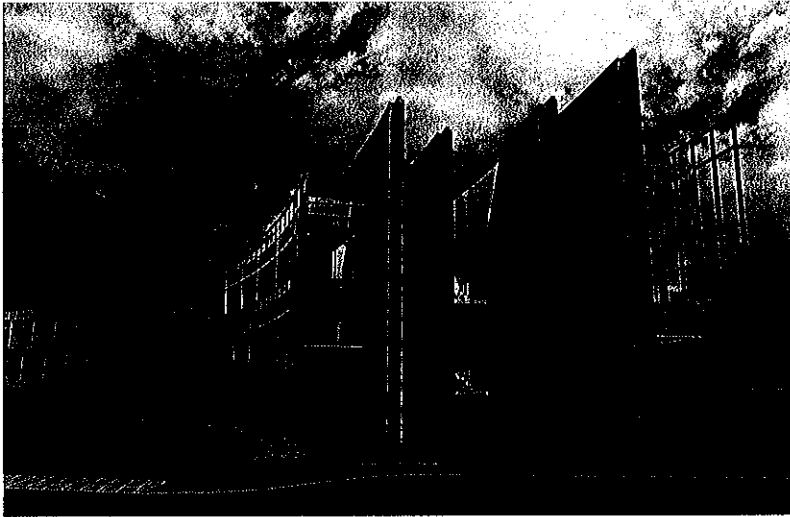
Chesapeake Energy Eastern Regional Headquarters

Charleston, West Virginia

This 121,212 square foot building on a 32.7 square acre site is designed for West Virginia's temperate climate with a sincere desire to both respect and respond to the surrounding West Virginia landscape.

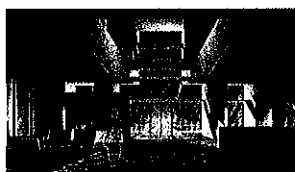
The corporate regional headquarters includes over 350 offices, a large dining and kitchen space, multiple conference spaces, storage, and office support spaces, as well as a fitness area with locker rooms and an exterior nature preserve and hiking trails. The project design engages the land in a way to minimize the building footprint by making use of a cantilevered building structure as well as following the line of the crown of the hill on which it is situated.





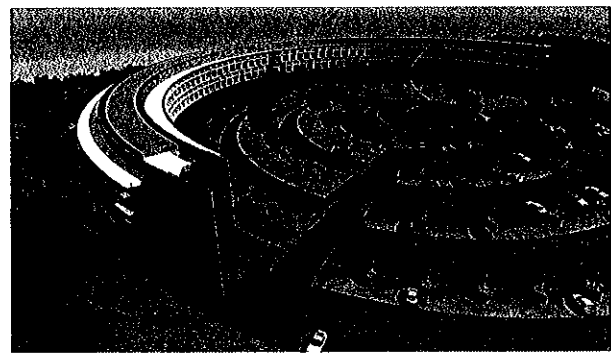
With an estimated construction cost of \$39M and projected track towards a LEED Gold rating, the project includes 296 total parking spaces with a concentric site design concept meant to encourage walking and enhance views to the surrounding landscape. Other health related and LEED aspects of the design include high performance glazing and mechanical equipment to reduce CO2 emissions, use of recycled fly ash in concrete parking materials to reduce heat sink effect, storm water retention and grey water irrigation systems, operable windows and advanced lighting and thermostat controls, water conserving plumbing fixtures, and numerous recycled, recyclable and renewable materials throughout the building. The building provides spectacular views from interior offices and employee recreational areas.

The building design utilizes a 250 foot inner radius and a 300 foot outer radius making use of economy of means through repetition of faceted planes and providing both intimate and distant visual connections to the building from the site and from the building to the site. The concept recognizes several key conceptual factors such as recognizing the difference between being on the land and being of the land, the difference between being in the trees and being around the trees, and the difference between long views and close-up views. The native "rocky" site is considered the building foundation with rugged and refined architecture growing out of it. Design inspiration came from Keith Rinearson's photos of the drill sites. "This building is inspired by the concept of exploration. In particular, the idea of drilling into the earth's surface, and more specifically, the concept of rotation, spinning, and drilling as a phenomenon. Imagine the architecture in concentric motion . . . Even the sun shadows support the notion of the drill bit spinning into the earth . . ." said Rand Elliott, FAIA, the project's lead designer. This design concept lends itself to solving client programmatic needs, site construction issues, and provides a stunning and appropriate addition to the surrounding natural landscape.



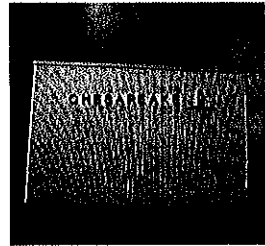
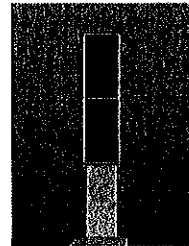
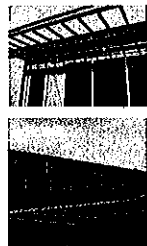
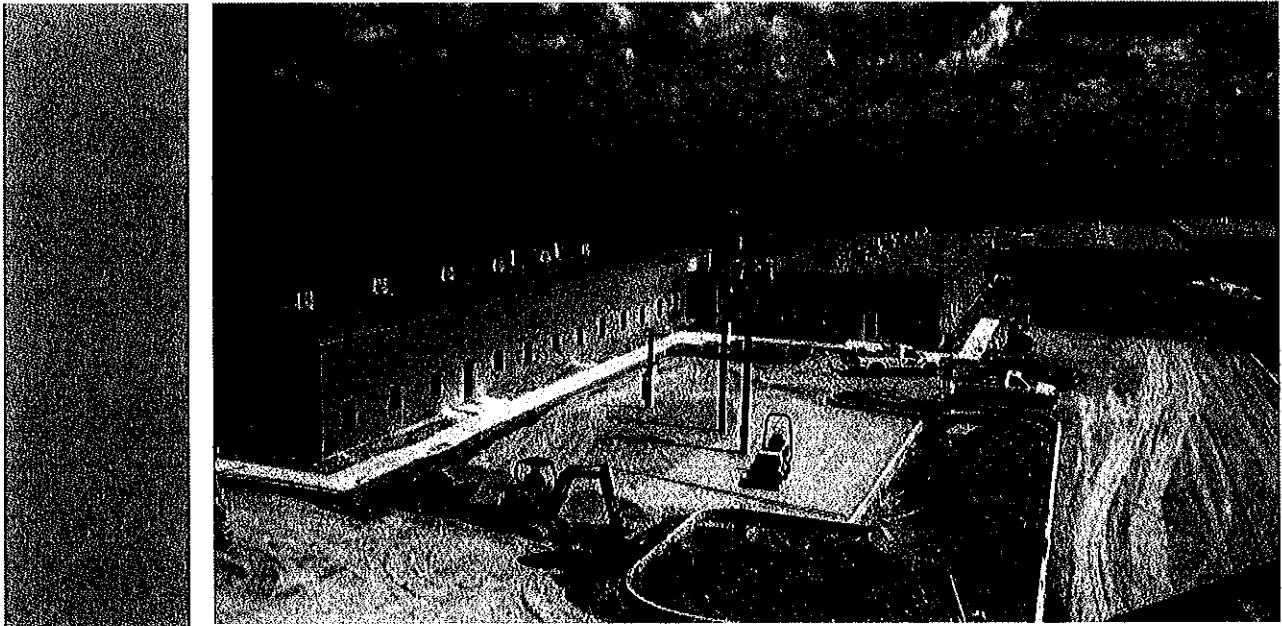
Doing Well While Doing Good
© 2008 Chesapeake Energy Corporation. All rights reserved.

It is the project's goal to create a building that is not only a high performing structure, but also a high performing community. The building is designed to be a model of sustainable design, with a focus on energy efficiency, water conservation, and indoor air quality. The building is designed to be a model of sustainable design, with a focus on energy efficiency, water conservation, and indoor air quality. The building is designed to be a model of sustainable design, with a focus on energy efficiency, water conservation, and indoor air quality.



Chesapeake Energy Eastern
 Regional Headquarter
 Charleston, West Virginia





SIZE: COMBINED 120,520 GSF (3 LOCATIONS IN WV, PA, KY)

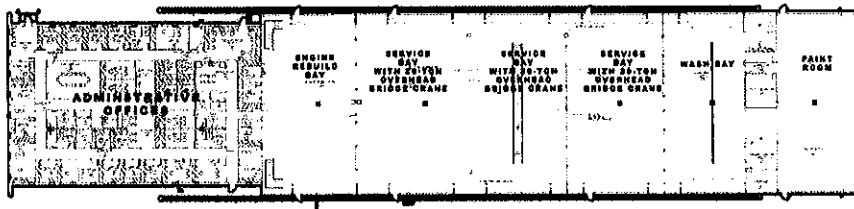
TYPE: NEW CONSTRUCTION

STATUS: 2009

CONTACT: DAN LEDONNE, CHESAPEAKE ENERGY,
1.405.879.9251

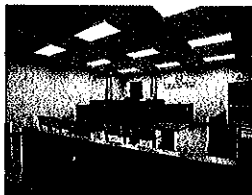
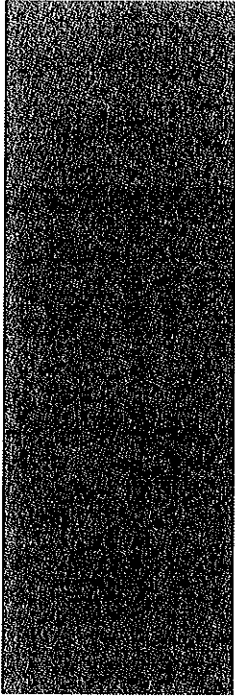
Regional Field Office Centers Chesapeake Energy Corporation

The Jane Lew field office includes two office buildings totaling 17,000 sf and a maintenance facility totaling 8,500 sf. The maintenance facility features three service bays, two large storage areas, wash bay, and a 10-ton bridge crane. The Mount Morris field office includes a 10,000 sf office area, 26,645 sf vehicle maintenance facility, and 3,900 sf small parts storage area. The maintenance facility features an engine rebuild bay, three equipment service bays, wash bay, drive-through paint booth, paint storage, compressor rooms, general storage, two 20-ton bridge cranes, and a



5-ton JIB crane. The Inez-Chesapeake project is comprised of four office buildings totaling 33,480 sf, plans for two future office buildings, and an 8,370 shop building. The Inez-MIDCON facility includes a 3,925 office area and an 8,700 sf shop area with four service bays.





SIZE: 34,000 GSF

TYPE: NEW CONSTRUCTION

STATUS: COMPLETED IN 2008

CONTACT: WALT DAVIS, HAMPSHIRE COUNTY BUILDING COMMISSIONER, 540.539.1909

"This state-of-the-art facility is yet another example of West Virginians coming together to produce quality results...Not only will this Judicial Center be used to sustain the legal process for this region ...but will also be recognized as a cornerstone for the city of Romney for years to come."

- Governor Joe Manchin

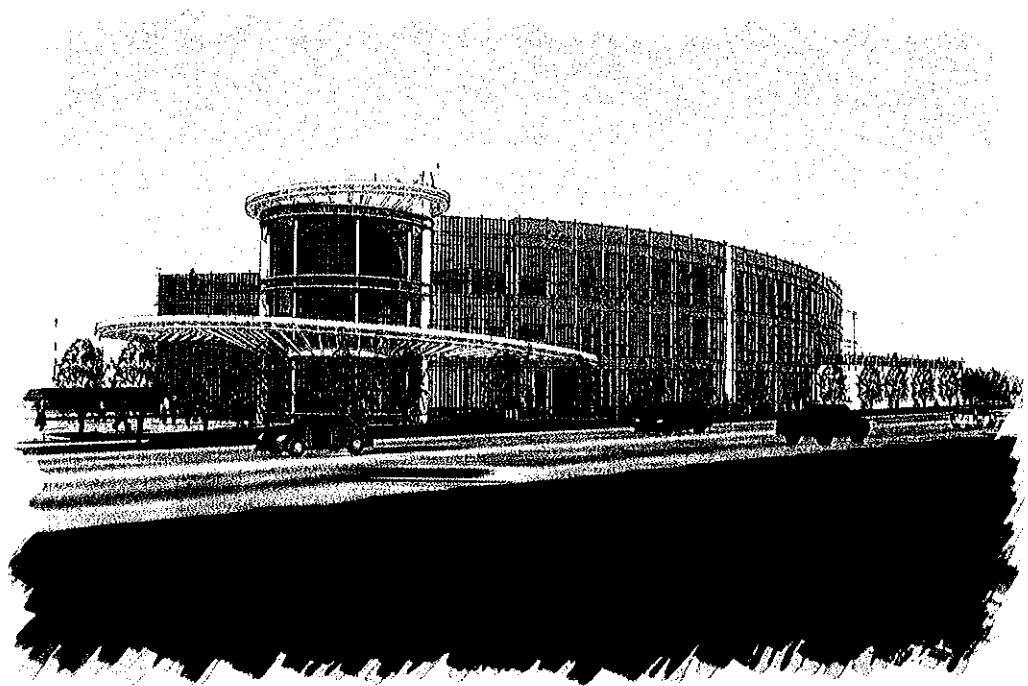
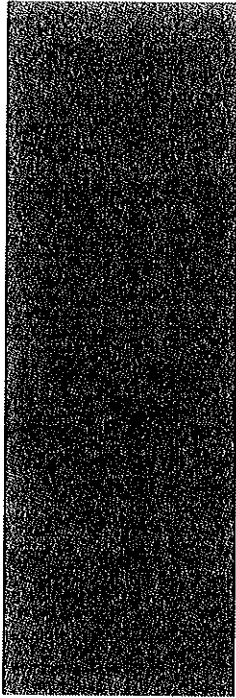
Hampshire County Judicial Center

Romney, West Virginia

The new 34,000 square foot, two-story Judicial Center will include the County's circuit court and clerk, family court, magistrate court and clerk, probation office, and the prosecuting attorney. The design creates a modern and secure courts center that efficiently separates public, staff, and detainee circulation throughout the building.

The project involved a close collaboration with the County, the WV Supreme Court, the State Historic Preservation Office, the Building Commission, and the city of Romney. Architecturally, the building responds to both the historic character of downtown Romney and the historic Courthouse with its own blend of materials, scale, and detail.



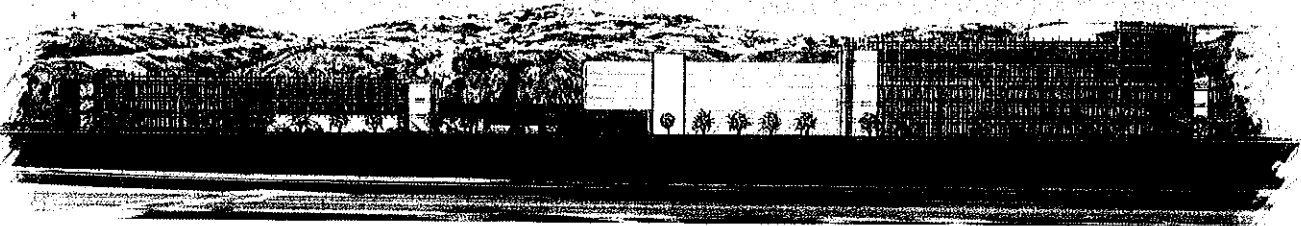


WV Lottery Headquarters

Pedestrian Bridge

Parking Garage

Proposed Tax & Revenue Center



SIZE: 120,000 GSF (PLUS FUTURE EXPANSION)

TYPE: NEW CONSTRUCTION

STATUS: CONCEPT DESIGN

CONTACT: JOHN MYERS, ASSISTANT DIRECTOR, WEST VIRGINIA LOTTERY, 304.558.0500

West Virginia Lottery Headquarters

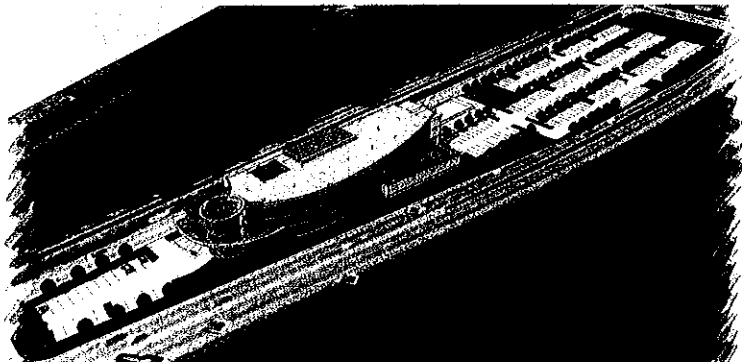
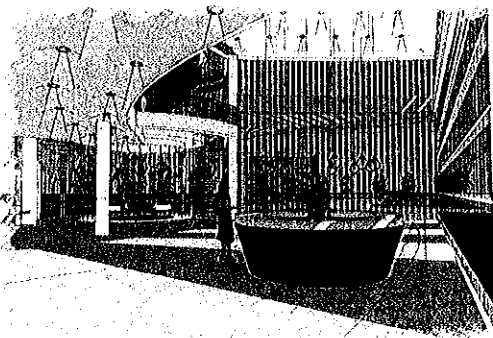
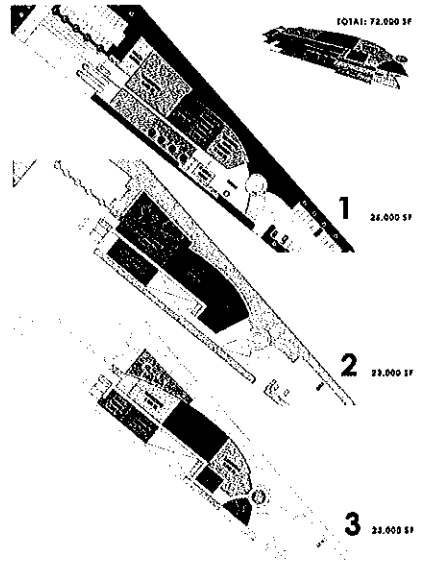
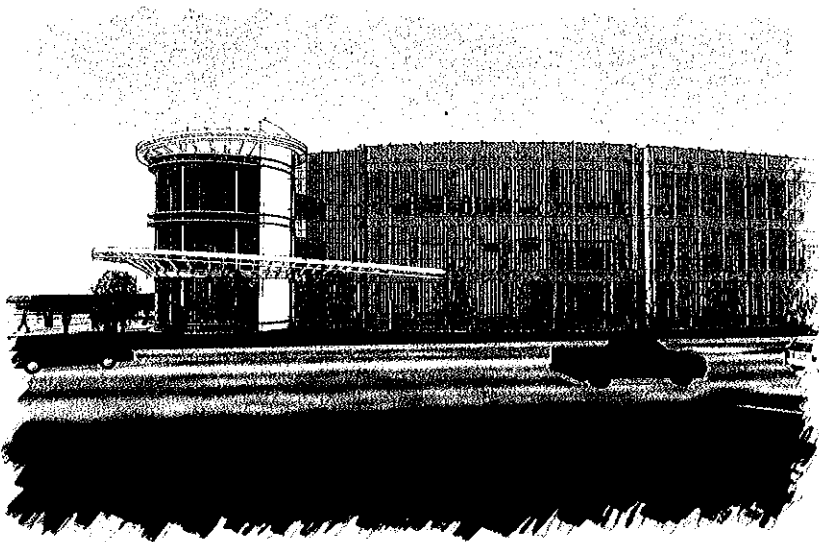
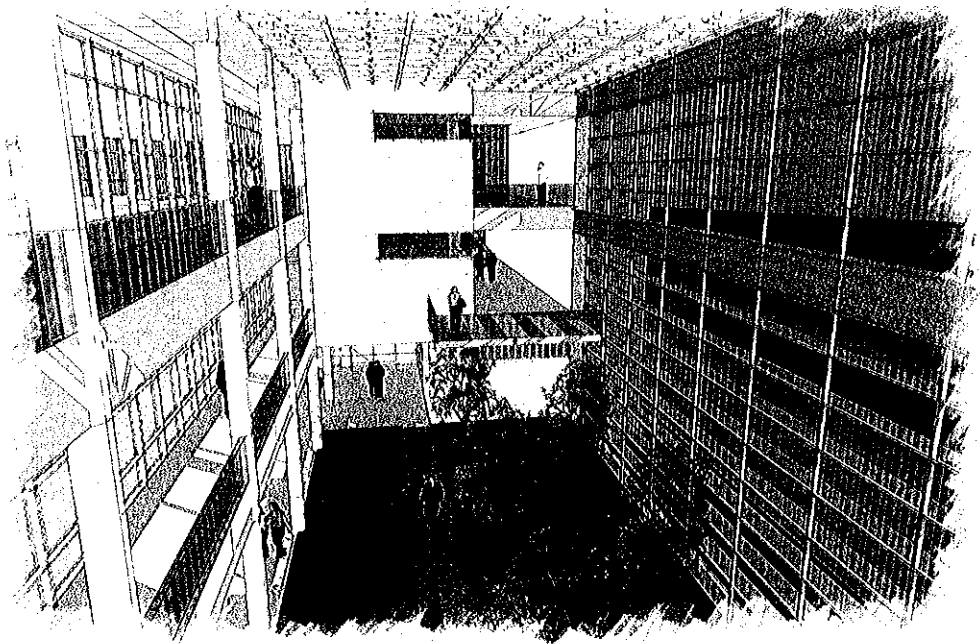
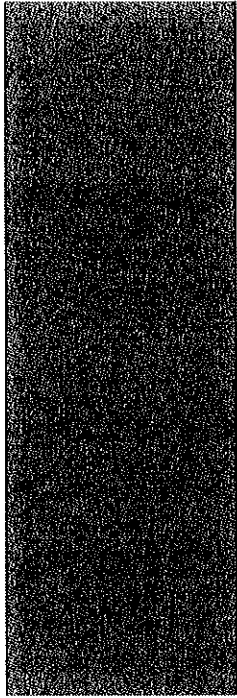
Charleston, West Virginia

This new 120,000 GSF headquarters for the West Virginia Lottery is tentatively planned for location along the riverfront in downtown Charleston.

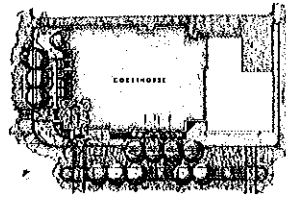
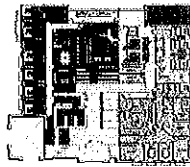
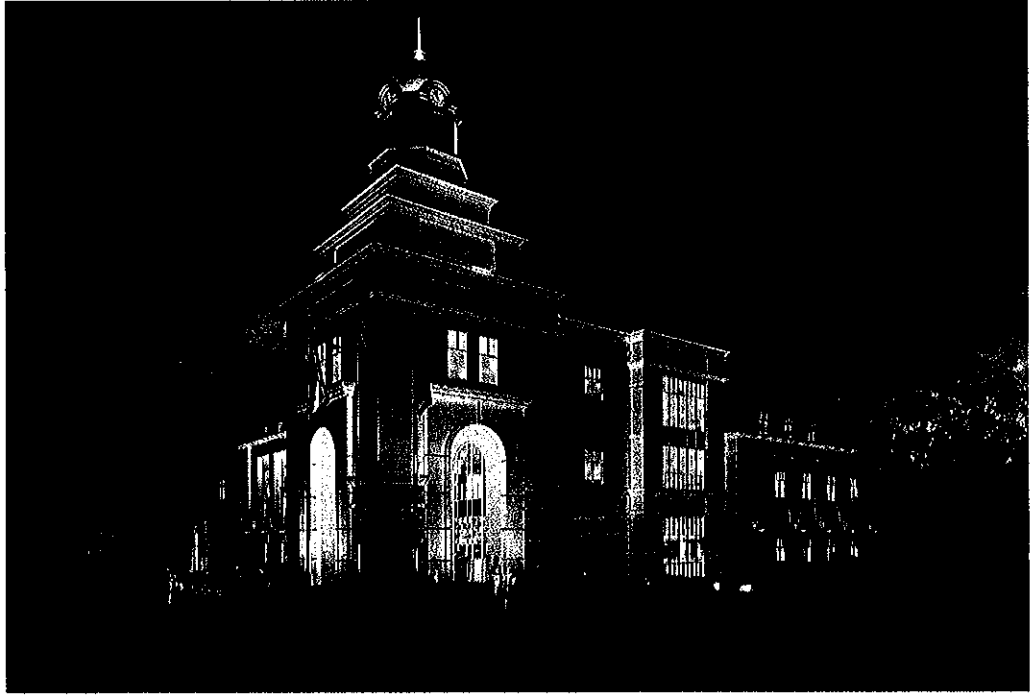
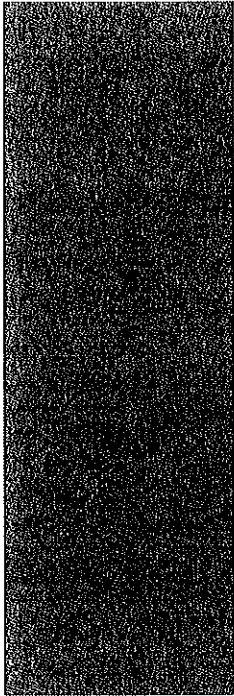
The dynamic design is expressive of the openness and fairness of state-run gaming and features highly modern imagery that is responsive to the technological network of retail gaming centers. Iconic its overall scale and detailing, this civic building will further enhance the Charleston riverfront and contribute to the urban fabric of downtown.

The new Lottery Headquarters will include a public hearing space, a welcoming interior atrium, rooftop greenspace, and executive, administrative, support, marketing, and warehouse components.





West Virginia Lottery Headquarters
Charleston, West Virginia



SIZE: 47,000 GSF

TYPE: NEW CONSTRUCTION

STATUS: SPRING 2010 COMPLETION

CONTACT: THOMAS SWAIM, COMMISSIONER, MORGAN COUNTY COMMISSION, 304.258.8540

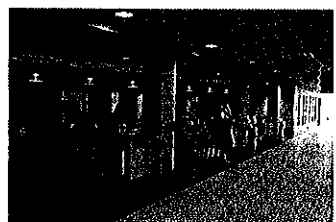
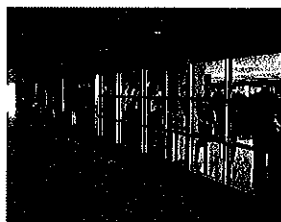
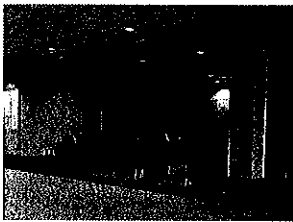
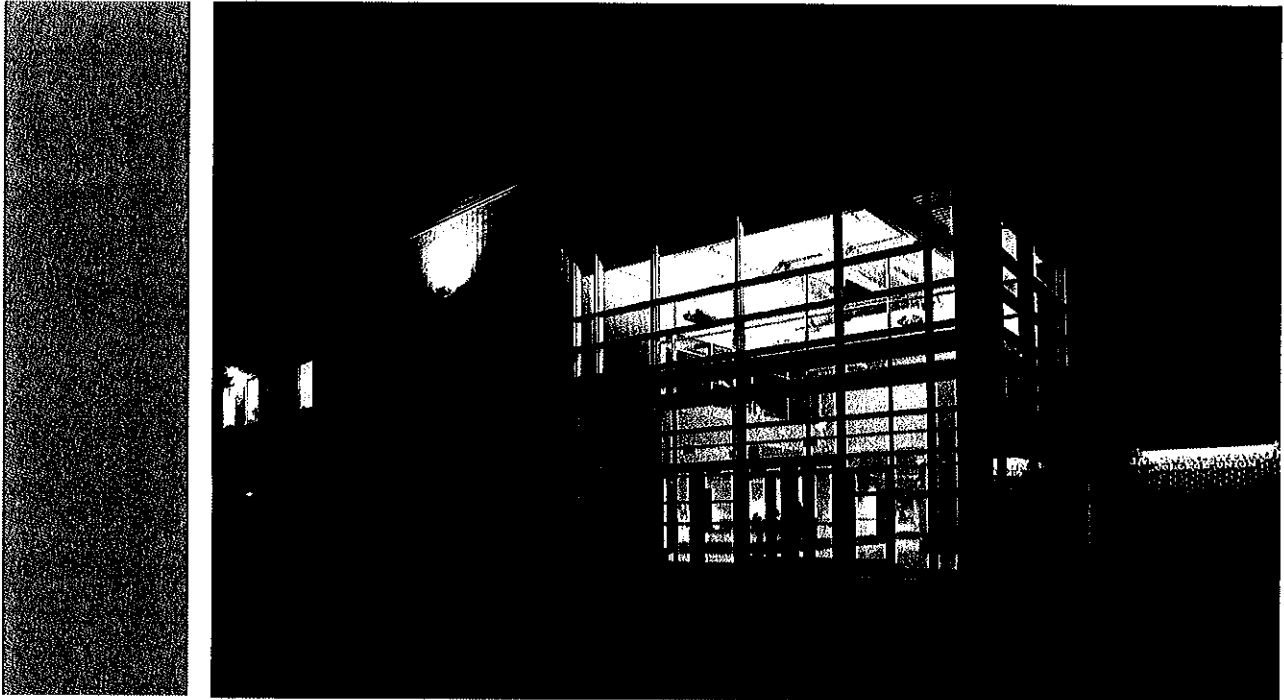
Morgan County Courthouse

Berkeley Springs, West Virginia

August 8, 2006 marked the second time tragedy destroyed a Courthouse in Morgan County at the corner of Washington and Fairfax Streets in downtown Berkeley Springs. The new 47,000 square foot Courthouse will house all of the County's courts and administrative departments under one roof. A creative approach to the placement of security screening allows for convenient first floor access to the county administrative services, while providing appropriate queuing of court visitors as they make their way to the upper level court departments.

The architecture of the new courthouse, which required great sensitivity to the downtown fabric of downtown Berkeley Springs, recalls some of the more prominent features of the historic courthouse, including the cupola, exterior materials, and cornice detail.





SIZE: 46,000 GSF

TYPE: ADDITIONS & RENOVATIONS

STATUS: 2005

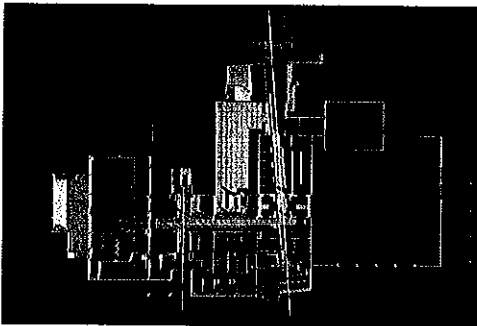
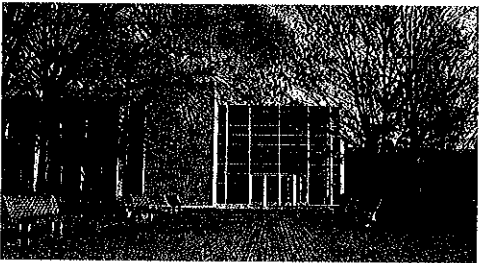
CONTACT: BRYCE CASTO, WEST VIRGINIA STATE UNIVERSITY, 304.766.3000

AWARDS: 2006 MERIT AWARD, AMERICAN INSTITUTE OF ARCHITECTS, WV CHAPTER

James C. Wilson Union West Virginia State University

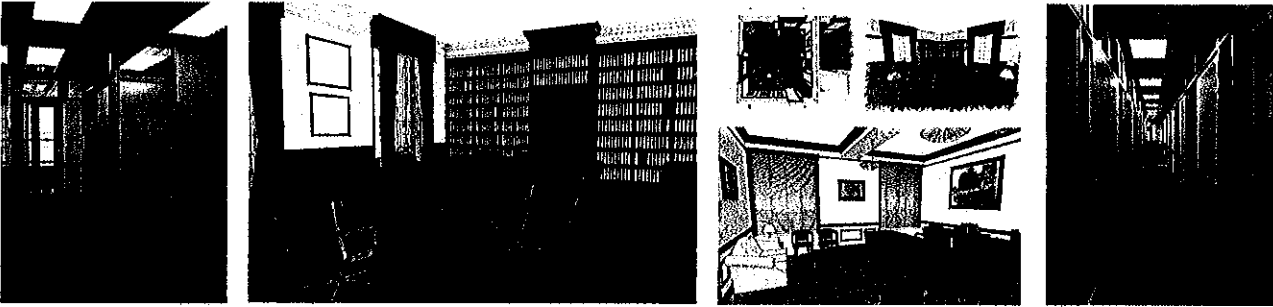
Critical goals of the James C. Wilson Student Union Additions and Alterations project were to present an appropriate front porch to the dominant commuter segment of the student body, enhance the connection to the formal campus center from the parking zones, and create many opportunities for student activities and services within the facility, yielding a truly diverse yet cooperative organization of functional spaces and improving the ability of the University to serve the modern student. In providing a broader spectrum of spaces and services, the Student Union aspired to again become the center for social activity and anchor West Virginia State's provision for a rich college experience.





The design solution includes three key additions to the structure: a two-story entrance element that addresses the formal campus lawn and pedestrian plaza, a one-story entrance element that addresses the commuter parking area and reorients service deliveries at the loading dock, and a two-story circulation element that provides accessible vertical connection between the basement and main floor levels. Additionally, extensive interior demolition and renovations carve a dynamic streetspace through the facility, connecting the commuter students to the campus center, facilitating multiple events of activity and services, and creating an informed path.





SIZE: 8,500 GSF

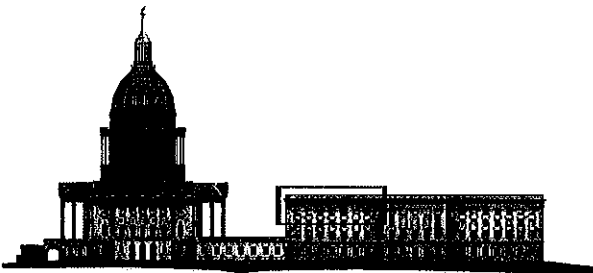
TYPE: RENOVATIONS

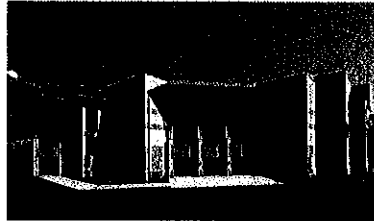
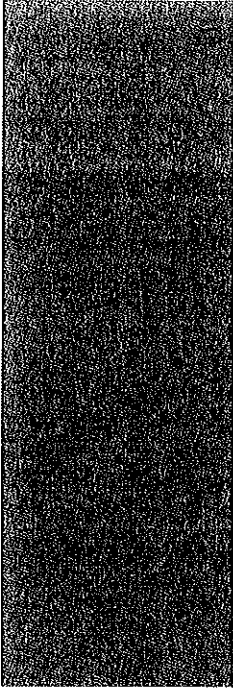
STATUS: COMPLETED IN 2010

CONTACT: STEVE CANTERBURY, ADMINISTRATIVE
DIRECTOR, WV SUPREME COURT, 304.558.0145

WV Supreme Court of Appeals East Wing of State Capitol Complex

This historic renovation project involves the phased renovation of the third and fourth floors of the East Wing of the West Virginia State Capitol Building. Primary components of this project included the historic restoration of the Justices' conference room, renovations to each of the Justice's private chambers, and a complete renovation and modernization of the 4th floor offices for legal assistants totaling 5,300 square feet. In addition, various mechanical, electrical, plumbing, and telecommunications upgrades were provided.





SIZE: 60,000 GSF

TYPE: NEW CONSTRUCTION

STATUS: COMPLETED 2008

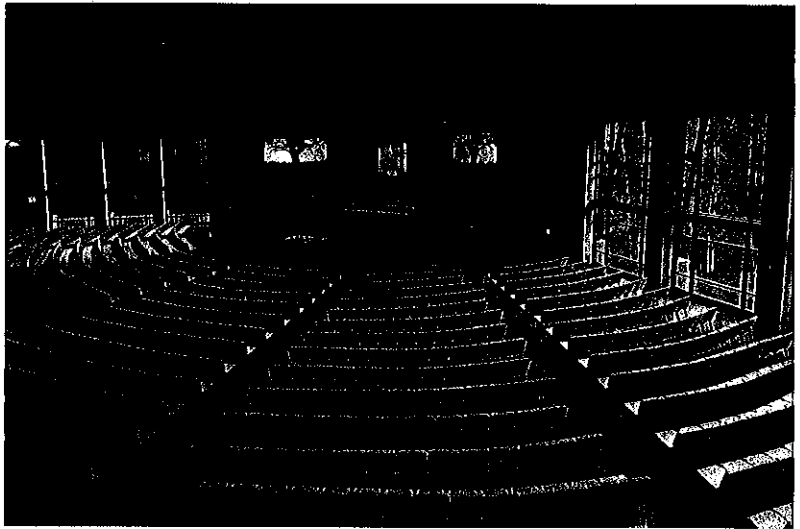
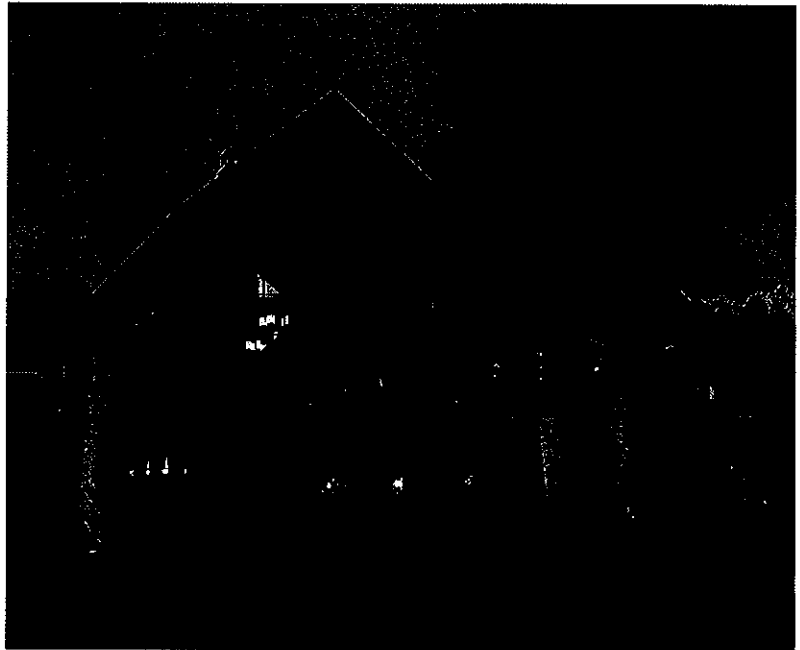
CONTACT: LEE WALKER, ADMINISTRATOR, BIBLE CENTER CHURCH, 304.346.0431

Bible Center Church

Charleston, West Virginia

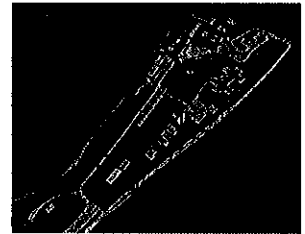
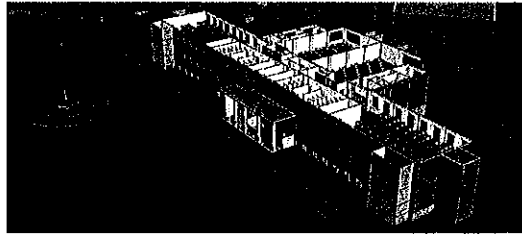
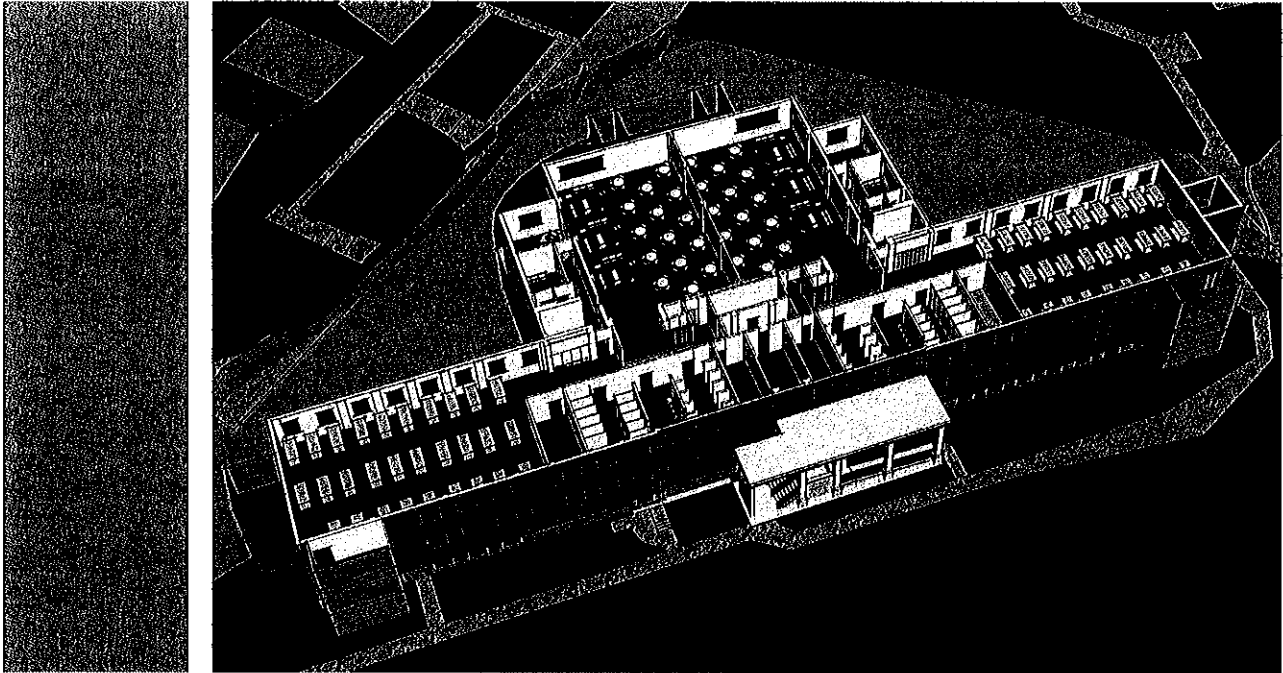
Silling Associates, in collaboration with CDH Partners completed a multi-phased development plan to relocate the Bible Center Church family from their current location. In total, the proposed church campus includes the sensitive placement of more than 250,000 square feet of worship, fellowship, education, and administrative space on a picturesque 90+ acres. The first phase of this development includes approximately 60,000 square feet of worship, Christian education; administrative support space; 500 surface parking spaces; a new access drive; plazas and landscaping; and site infrastructure for future development.





The central component of phase one includes a 1200-seat multipurpose sanctuary that serves the needs of the initial relocation. The grand lobby space offers a window to the outdoors with its large fenestration and clerestory features. A large fireplace in the lobby welcomes you in for a cup of coffee and fellowship. The worship space is designed to continue the elegant lodge-like atmosphere with its richly textured fabrics, stone, and warm natural millwork. The phase two strategic plan expands the educational and gymnasium space. A portion of this phase provides for administrative needs. Phase three includes a 2200-seat worship center, a small chapel, and additional room for the education ministry.





COST: \$26.8 MILLION

TYPE: NEW CONSTRUCTION & RENOVATIONS

STATUS: FUNDING STAGE

CONTACT: JIM RUBENSTEIN, COMMISSIONER, WV
DIVISION OF CORRECTIONS, 304.558.2036

St. Marys Correctional Center

St. Marys, West Virginia

This present scope of work represents the final components of the Master Plan for the St Marys Correctional Center as reflected in the November 1, 1998 planning document prepared by Silling Associates reflecting the vision of the WV Division of Corrections.

Phase 1

Site Development to include the new underground storm and earthwork completed; Demolition and construction of the new Administration Building - should be completed to allow administrative offices to be relocated from building 74; Construction of 20,000 SF Prison Industries/Vocational Education Building; Construction of Segregation Housing Building.

Phase 2

Renovation of Building 74 to accommodate education and other program space from building 83.

Phase 3

Renovation of Building 83.





See What Our Clients Have To Say About Us.

Mr. Steve Canterbury, Administrative Director
WV Supreme Court
State Capitol Complex
Building 1, Room E-100
Charleston, WV 25305-0830
304.558.0145

Mr. Wall Davis, Chairman
Hampshire County Building Commission
405 West Main Street
Romney, WV 26757
540.539.1909

Mr. Glen R. Stoller, Commissioner
Morgan County Commission
P.O. Box 28
Berkeley Springs, WV 25411
304.258.8540

Mr. Lee Walker Church Administrator
Bible Center Church
1111 Oakhurst Drive
Charleston, WV 25314
304.346.0431

Mr. Jim Rubenstein, Commissioner
WV Division of Corrections
112 California Avenue, Room 300
Charleston, WV 25305
304.558.2036

Mr. John Aliff, Commissioner
Raleigh County Commission
116 1/2 North Heber Street
Beckley, WV 25801
304.255.9146

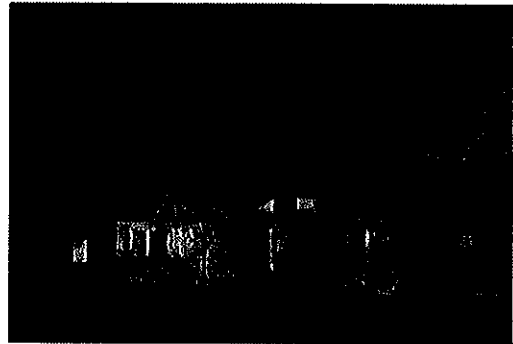
Mr. John D. Robertson, General Manager
Charleston Civic Center
200 Civic Center Drive
Charleston, WV 25301
304.345.1500

Mr. Michael C. Bland, County Administrator
Mineral County Commission
150 Armstrong Street
Keyser, WV 26726
304.788.5921



ABOUT THE FIRM

Scheeser Buckley Mayfield LLC is an Ohio-based Consulting Engineering firm that serves clients throughout Ohio and the surrounding states. The firm was established in 1959 by Walter L. Scheeser and Edwin J. Buckley, specializing in the design of mechanical systems for the construction industry. The firm has enjoyed a steady growth in clients and geographical area served throughout its history, and its services now include electrical, civil, and telecommunication design.



Scheeser Buckley Mayfield LLC has developed an outstanding reputation for both its accessibility to its clients and the clarity and completeness of its documents. The firm has been a leader in the application of new technology. It has extensive experience in the design and analysis of projects of all sizes, which it can draw upon for future projects. Each project requires an analysis of the most cost effective system available based on the client's design parameters. It is also the responsibility of the design team to determine if other options exist which may be beyond the scope of the current budget and which need to be considered on the current project to allow for future growth. Scheeser Buckley Mayfield LLC gives this personal attention to each project by determining the project design which can be implemented within the client's budget while applying innovative design concepts.

Many of Scheeser Buckley Mayfield's projects originate from clients who have used its services previously and wish to continue a professional association. Scheeser Buckley Mayfield LLC strives to provide very professional and competent engineering services to all of our clients and to develop a personal relationship with these clients. This on-going association with clients provides an opportunity for them to better understand design concepts as well as the logic behind the decisions which may affect their systems for many years after the project's completion.

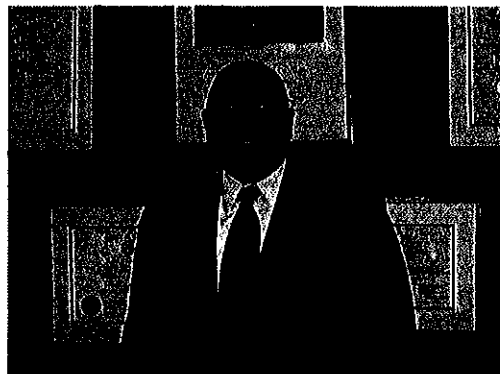


JAMES E. ECKMAN, P.E., LC, LEED AP, CBCP PRESIDENT - ELECTRICAL ENGINEER

PERSONAL RESUME

Mr. Eckman attended The University of Akron where he received his Bachelor of Science Degree in Electrical Engineering in 1984.

After graduation, Mr. Eckman began his career as a consulting engineer by accepting a position as junior engineer with Kucheman, Peters and Tschantz, Inc., an electrical consulting firm in Akron, Ohio. During this engagement, he gained experience in the electrical design of commercial, industrial and healthcare facilities. Mr. Eckman also served as project manager for many of the projects he designed.



Concurrently, Mr. Eckman taught an electrical engineering course called "Illumination" at The University of Akron.

After leaving KPT, Inc. in 1987, Mr. Eckman gained additional experience in the construction industry by accepting the position of Engineer/Estimator for Thompson Electric, Inc. in Munroe Falls, Ohio. During this engagement, he designed and acted as project manager for several large industrial projects. He also earned electrical contractor licenses in several area communities.

Desiring to further his career as a consulting engineer, Mr. Eckman accepted a position of Senior Engineer with Scheeser Buckley Mayfield LLC in 1989. Mr. Eckman was promoted to the position of Associate in 1990, became a Principal in the firm in 1991 and Vice President of Electrical Engineering in 1992, and President in 2003.

Mr. Eckman was a member of the Institute of Electrical and Electronics Engineers for eight years and is currently an active member of the Electrical League of Northeastern Ohio and the Illuminating Engineering Society (IES). Mr. Eckman has served as Treasurer and President of the Cleveland/Akron IES section and a member of the Executive Committee for the Electrical League. Mr. Eckman served on the College of Engineering Advancement Council for The University of Akron from 2002 to 2004 and is currently serving as Secretary of The University of Akron Electrical Engineering and Computer Engineering Advisory Council as Vice Chairman.

Jim is a LEED v2 Accredited Professional and is registered in the State of Ohio, West Virginia, Pennsylvania and Indiana.

In 2005, Jim received his Lighting Certification (LC) from the National Council on Qualifications for Lighting Professionals (NCQLP).

In 2009, Jim received his Certified Building Commissioning Professional (CBCP) administered by the AEE (Association of Energy Engineers).

Scheeser Buckley Mayfield LLC

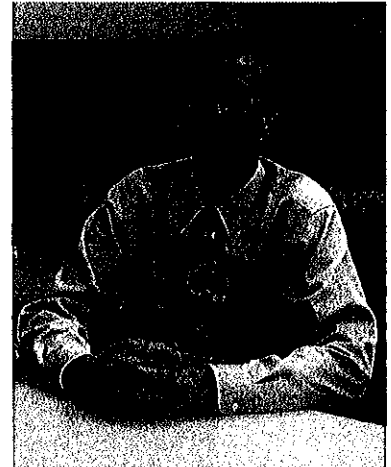
MICHAEL P. WESNER, P.E., LEED AP, CBCP

VICE PRESIDENT - MECHANICAL ENGINEERING

PERSONAL RESUME

Mike is a graduate of Ohio State University in Columbus, Ohio. He received a Bachelor of Science Degree in Mechanical Engineering in 1981 and later that year joined the consulting firm of Scheeser Buckley Mayfield LLC which was then known as Scheeser*Buckley*Keyser.

During his first few years with the firm, Mike was heavily involved with the Title III of the National Energy Conservation Policy Act (NECPA). This governmental program was established as a cost sharing energy conservation grant programs. This program provided funds to study the operation of schools and hospitals to determine if there were ways to reduce their energy consumption. The program then funded energy conservation measures identified in the reports. As a result of this involvement in many audits and retrofit programs for public school buildings, college and university buildings and hospitals, Mike gained valuable experience in formulating and implementing energy conservation programs in buildings that result in real world savings. This experience carries on in the work that Mike does today.



Since the mid 1980's Mike's project experience has been concentrated in the following areas:

- Large hospital Expansion and remodeling projects.
- Hospital Boiler Plant / Chiller Plant replacement projects.
- University Laboratory projects, both new construction and renovation.
- University Classroom Facilities
- University Dormitory Facilities
- Animal research facilities.
- Secondary education facilities.
- Industrial facilities.
- Telephone / Communications buildings
- Recreation/Athletic Fitness Centers
- Worship Centers

On all of the above facility types, Mike has acted as the Principal in Charge for the firm. The Principal in Charge (PIC) is the single point of contact and is responsible to make sure the project gets done on time and on budget.

Other types of project experience Mike has had are listed as follows:

- Projects where SBM was the prime design professional hired by the Owner. Typically this has been for chiller plant/boiler plant or other type of main A/C system replacement. This work involved hiring the sub-consultants, preparing the budget/schedule, writing the "front end" specification documents and doing all of the day to day construction administration.
- Projects where SBM was hired to diagnose and correct mechanical system problems
- Projects where SBM was hired to do Mechanical and Electrical Construction Cost Estimating

Mike is a LEED™ 2.0 Accredited Professional and a member of ASHRAE, ASPE, NFPA and BOCA. In 2009, Mike received his Certified Building Commissioning Professional (CBCP) administered by the AEE (Association of Energy Engineers).

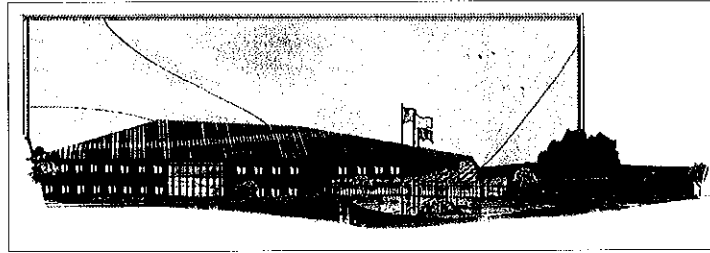
SCHEESER BUCKLEY MAYFIELD LLC

COURTHOUSE PROJECT EXPERIENCE

Armed Forces Recruiting Center

Discipline: Mechanical, Electrical, Civil
Telecommunications

The Whitehall Armed Forces Reserve Center is a new building of approximately 150,272 square feet. The building program includes offices, training facilities, readiness rooms, unit storage facilities, an assembly hall and a kitchen.



The project also includes recruiting offices, medical examination rooms and a weapons simulator room. Approximately 900 people will work and train in this facility. Additionally the project consists of a 5,067 square foot Vehicle Maintenance Shop, and an additional 6,549 square foot Storage Building. Scheeser Buckley Mayfield was responsible for the MEPT and Civil design for the facility. The project delivery method was design build with the A/E team participating in the project solicitation response as well as the design documentation. The project was designed to comply with federal energy conservation measures roughly equivalent to a LEED Silver energy performance. The building envelope was modeled by Scheeser Buckley Mayfield to assist in accomplishing compliance with ASHRAE 90.1-2004

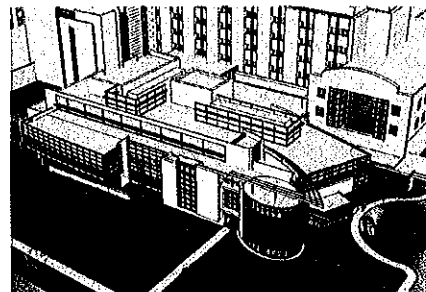
Service for the three building complex was obtained from a new service drop designed to connect to the Bases' 13.2 KV overhead distribution system. The new service drop feeds a 2500 KVA, 13.2KV to 480/277V, 3 phase, and liquid-filled, outdoor padmount transformer. This transformer supplies the Training Building's 3000A, 480/277V Main Switchboard. Separate metered feeds were run from the Main Switchboard for electric service to Vehicle Maintenance Shop and Storage Building. The Training Building's electrical distribution system was designed so that mechanical system equipment is on separate electrical feeds segregating it from the electrical system serving office areas. 208/120V power for the office areas are served by K13 rated step down transformers. The 208/120V distribution systems serving the office areas were designed with a 200% neutral throughout. Building lighting generally consisted of the 2'x 4' recessed fluorescent fixtures in areas with ceilings and 1'x 4' surface industrial fluorescent fixtures in utility areas with no ceilings. Offices and open office areas were generally lit with recessed direct/indirect lighting fixtures. Restrooms and general use spaces were lit with recessed fixtures having acrylic prismatic lenses. Lighting utilized T8 lamps, and electronic ballasts having less than 10% THD. The lighting in open office areas is controlled via a programmable lighting control system. Corridor lighting and lighting in offices having more than one occupant is controlled via ceiling mounted occupancy sensors. Lighting for individual offices is controlled via a wall mounted occupancy sensor. The design included the installation of power and telecommunication feeds for large amounts of modular office furniture. A combination analog addressable fire alarm and mass notification was designed for the Training Building and the Vehicle Maintenance Shop. A tie in with the Base's fire alarm and mass notification was also included. The design provided a building card access/security system which ties in and interfaces with the Bases' existing security system as well as a Cable TV distribution system. The project included the design of the telecommunication system for the three buildings. The designed covered the design of telecommunications rooms, a new telecommunications main distribution frame, wiring, and jacks.

The project included secured car and truck parking / service lots that utilized extra strength 12" high concrete curbs, reinforced concrete curbing and sidewalks, concrete filled bollards, high security barrier arm gates, and chain link security fencing to protect the buildings from vehicular assaults. The design also included standard and heavy duty asphalt pavement and concrete pavement sections. Pavement and curbing underdrain systems were utilized in conjunction with the design of the site closed storm system and stormwater management facility to extend the expected life of the pavement sections. Additional pavement design work included striping, handicap ramps, handicap signage, and concrete dumpster pad with masonry enclosure and access gate.

Cabell Huntington Hospital Joan C. Edwards Comprehensive Cancer Center Huntington, West Virginia

This comprehensive cancer center is part of the Edwards Foundation at Marshall University. The project consists of a 50,000 sq. ft. addition situated in front of Cabell Huntington Hospital and the Joan C. Edwards School of Medicine. The building layout consists of a basement, ground and first floor along with a connector bridge to connect the addition to the existing hospital.

The building will function as a somewhat stand-alone entity on the medical center campus and therefore all parties involved prefer to have the utilities for the building separated from the existing hospital and medical school building. To this end, a new water service, gas service entrance and electrical service shall be designed for this addition.



The electrical service shall be extended from the existing high-voltage switchgear to create a new unit sub in the basement of the new addition.

The HVAC system for the building consists of central station air handling units located in the basement of the facility, a modular packaged boiler heating water plant, water cooled helical screw chillers and a direct digital control system. One of the air handling units in the basement shall be dedicated to serving the egress corridors in the building. Use of an air handling unit to serve the egress corridors is a requirement particular to NFPA 90A and this requirement is strictly enforced in the state of West Virginia. Having an air handling unit dedicated strictly for egress corridors increases the degree of difficulty in duct routing in the hospital tremendously especially when there are low floor-to-floor conditions such as in this cancer hospital addition. The air distribution system consists of VAV terminals with hot water reheat coils. Perimeter areas in the building with large amounts of glazing will have a separate radiant panel heating system.

Greenbrier County Judicial Center

Discipline: Mechanical, Electrical

SBM is providing Mechanical and Electrical design services for this new Judicial Center located in Lewisburg WV. The work shall include the design of HVAC, plumbing, fire protection and electrical systems for the new facility. All mechanical equipment to be located inside the structure with the exception of the air cooled chiller which will be located outside in an enclosure. The HVAC system shall provide multiple zoning through the use of VAV reheat air terminals. All supply air, return air and exhaust air systems shall have sound attenuators.

The building shall have a wet pipe sprinkler system for the entire building. Domestic water, sanitary drainage, sanitary vent, and storm drainage systems shall be designed for the new building. SBM shall design a new electrical power service and distribution system for the new building. The building shall have a security system and structured wiring system.

Hampshire County Judicial Center

Discipline: Mechanical, Electrical

SBM is providing Mechanical and Electrical design services for this new Judicial Center located in Hampshire County. The work shall include the design of HVAC, plumbing, fire protection and electrical systems for the new facility. All mechanical equipment to be located inside the structure with the exception of the air cooled chiller which will be located outside in an enclosure. The HVAC system shall provide multiple zoning through the use of VAV reheat air terminals. All supply air, return air and exhaust air systems shall have sound attenuators.



The building shall have a wet pipe sprinkler system for the entire building. Domestic water, sanitary drainage, sanitary vent, and storm drainage systems shall be designed for the new building. SBM shall design a new electrical power service and distribution system for the new building. The building shall have a security system and structured wiring system.

Mineral County Courthouse Master Plan

Disciplines: Mechanical, Electrical

SBM is providing HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and Site Civil Master planning consulting services for the Mineral County Courthouse Master plan. The work includes needs assessments, mechanical and electrical space allocations and systems evaluations and budgeting.

Morgan County Courthouse Berkley Springs, WV

Disciplines: Mechanical, Electrical

The Morgan County Courthouse Heating, Ventilating and Air Conditioning System (HVAC) takes advantage of the warm springs in Berkley Springs, West Virginia. Warm Springs run, a small creek, fed by warm springs just happens to be adjacent to the Courthouse property. The HVAC system in the building is able to use the warm springs run as a source of heat in the heating season and as a heat sink in the cooling season. Water from the run flows by gravity to a large manhole under the Courthouse mechanical room where it is pumped through a plate frame heat exchanger. The heat exchanger is integrated into the buildings "Water Source Heat Pump" loop. The heat exchanger is in series with the buildings boilers and fluid coolers. For most of the year the water in the run will allow the boilers and fluid coolers to stay offline saving the county energy and water consumption costs



Raleigh County Judicial Center

Discipline: Mechanical, Electrical

SBM is providing Mechanical and Electrical design services for this new Judicial Center located in Beckley. The work shall include the design of HVAC, plumbing, fire protection and electrical systems for the new facility. All mechanical equipment to be located inside the structure with the exception of the air cooled chiller which will be located outside in an enclosure. The HVAC system shall provide multiple zoning through the use of VAV reheat air terminals. All supply air, return air and exhaust air systems shall have sound attenuators. The building shall have a wet pipe sprinkler system for the entire building. Domestic water, sanitary drainage, sanitary vent, and storm drainage systems shall be designed for the new building. SBM shall design a new electrical power service and distribution system for the new building. The building shall have a security system and structured wiring system.



Kanawha County Schools Additions and Renovation to Central Elementary School Charleston, WV

Scheeser Buckley Mayfield provided engineering services for HVAC, Fire Protection, Plumbing, Lighting and Power for the 5400 square foot addition which added classroom space to the facility. The HVAC work included the conditioning the addition as well as adding more efficient cooling and heating systems to the existing offices and classrooms. The HVAC systems for the school consisted of packaged rooftop units with electric reheat coils to provide temperature control zoning. The rooftop air handling units were isolated from the space below by locating the units over corridor areas and also by providing a concrete isolation pad underneath the equipment to minimize fan noise and compressor noise intrusion on the spaces below. The temperature controls for the schools were direct digital control allowing the equipment to be monitored remotely at the facilities maintenance office.

The electrical design for the Central Elementary Addition included the replacement of the existing single phase electrical service with a new three-phase service in order to accommodate the additional load. Fluorescent indirect fixtures were furnished throughout the educational spaces. Bi-level and group lighting controls were incorporated into the design to allow for the various applications in an instructional environment. A new addressable fire alarm system was installed for the entire facility to upgrade the school to more reliable equipment. A school-wide intercom system was installed to allow two-way voice communication to each classroom and outside the building. The intercom system also doubled as the class change and dismissal bell system.

Kanawha County Schools Additions to Ann Bailey, Andrew Heights, and Alban Elementary Schools Charleston, WV

This project consisted of additions and renovations to three elementary schools in the Charleston, West Virginia area. SBM performed the HVAC, plumbing, fire protection, electrical, telecommunications and civil engineering work related to the additions. The

additions added classroom space, computer room space, and expanded library space to each facility. The project also included a complete fire protection system for Ann Bailey and Alban schools. The HVAC systems for the schools consisted of high quality packaged rooftop units with electric reheat coils to provide temperature control zoning. The rooftop air handling units were isolated from the space below by locating the units over corridor areas and also by providing a concrete isolation pad underneath the equipment to minimize fan noise and compressor noise intrusion on the spaces below. The temperature controls for the schools were all direct digital control allowing the equipment to be monitored remotely at the facilities maintenance office.

Kanawha County Schools Stonewall Jackson HVAC Upgrade Charleston, WV

Scheeser Buckley Mayfield LLC performed mechanical and electrical design services for HVAC renovations to the existing 180,000 square foot Middle School and associated 15,000 square foot Physical Education building. The project involved air conditioning the existing school, which was originally ventilated and heated only. The air conditioning system consists of an air cooled chiller with multiple fan coil units being used for individual temperature control. The chilled water system contains 40% propylene glycol solution, allowing the chiller to be run during colder months without the worry of freezing the chiller evaporator or draining the system. The classroom ventilation system consists of multiple 100% outdoor air handling units strategically sized and located to replace the existing ventilation units. The new ventilation units are capable of dehumidifying the outdoor air and are connected to the existing ventilation ductwork, minimizing the overall construction cost of the project. Space carbon dioxide sensors are utilized to ensure the ventilation units supply the minimum amount of outdoor air required for adequate ventilation, minimizing operating costs. Packaged rooftop units are also used in select office areas. The rooftop air handling units were isolated from the space below by locating the units over corridor areas where possible and also by providing a concrete isolation pad beneath the equipment to minimize fan noise and compressor noise transmitted to the spaces below. Boiler plant upgrades consists of the installation of three packaged heating water boilers to supplement the existing steam boiler plant. The Physical Education building HVAC system consists of multiple gas heating/DX cooling rooftop air handling units serving the gymnasium area. Duct mounted Carbon dioxide sensors are utilized to ensure the units supply the minimum amount of outdoor air required for adequate ventilation, minimizing operating costs.

Electrical upgrades included the design of the removal and replacement of the buildings main distribution panel. The distribution panel was increase in size to accommodate the new mechanical equipment. Coordination was required with the owner and local utility company to limit the power interruption required. In addition, the fire alarm system was extended for the new rooftop equipment shutdown.

**Marshall University
Student Housing and Dining Hall
Huntington, West Virginia**

This project consists of four (4) 40,000 sq. ft, 4-story residence hall buildings. The residence halls are of the "suite" type arrangement. Residence halls contain suites which contain two 2-bedroom suites, four single bedroom suites and four 2-bed type suites. The residence hall buildings are state-of-the-art with all of the amenities, including air conditioning, data ports for local campus internet and internet access, as well as a fire protection system installed throughout the facilities. The HVAC system for the building consists of a four-pipe fan coil system with perimeter hydronic heat. The building also has a central ventilation system which provides mechanical ventilation to all spaces within the building as a central toilet exhaust system.

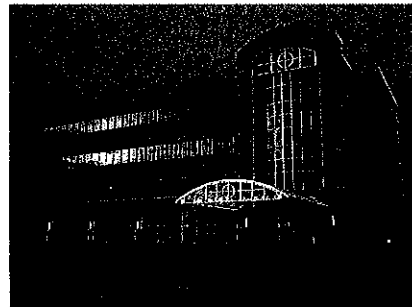


The dining hall facility is an 18,000 sq. ft. building housing a full kitchen, state-of-the-art serving area, meeting rooms and exercise room. The HVAC system for this facility consists of custom roof-top heating and cooling equipment.

The buildings were designed to comply with the West Virginia Fire Code, NFPA, the BOCA codes and ASHRAE Standard 90.1.

**Thomas Memorial Hospital
Medical Office Pavilion and Hospital Addition
South Charleston, West Virginia**

Scheeser Buckley Mayfield provided mechanical and electrical design for the Medical Office Pavilion Building at Thomas Memorial Hospital. This 80,000 sq. ft. office building/hospital is a major addition to the facility. The building is a 4-story structure plus basement. The project is being constructed in a multiple bid package construction delivery method with the building foundation and shell currently under contract.



The basement of the building will house the new hospital laboratory and the First Floor of the building will house the expanded radiology department. The upper floors of the building shall provide doctors office space.

Hospital addition, this project is currently in the planning stages and will provide for expanded operating rooms and surgery support, new labor and delivery areas and additional nursing beds. It is anticipated that this portion of the project shall be under construction in 2004.

Marshall University Wellness Center

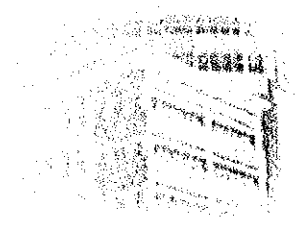
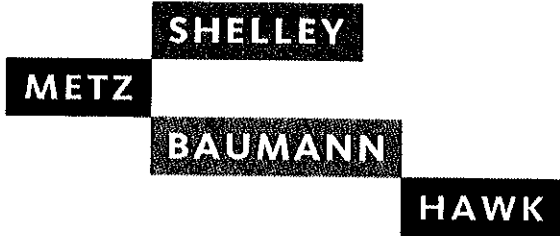
Discipline: Mechanical, Electrical,
Telecommunication

Scheeser Buckley Mayfield LLC designed the HVAC, plumbing, electrical, and fire protection for this building. This building is the Wellness Center for the Marshall University Campus. It contains a lap pool, aerobics rooms, racquetball courts, four gymnasiums, workout areas, administrative areas, a climbing wall, and an indoor running track. Semi-custom rooftop packaged air handling units were designed to serve the building. The electrical design involved extensive site coordination with the utility companies to allow necessary services to be routed to this area of campus. Lighting for the building was designed to compliment the focus of health and exercise in the building. A variety of indirect and semi-indirect sources were selected to help prevent glare. Decorative elements were introduced on the interior and exterior of the building that highlight the University colors. The power design included both normal and emergency systems. Extensive coordination between the Mechanical and Electrical Engineers took place to design the smoke evacuation system. A fire command center was located at the fire service entrance to provide emergency responders the required environment to safely locate a problem situation and communicate safety instructions to the building occupants. Technology design for the project included the complete structured wiring design including wireless access points to allow Wi-Fi access to students throughout the building.

Lakemore Firestation Generator Upgrade

Discipline: Electrical

Scheeser Buckley Mayfield LLC provided the electrical design for a new electrical service and emergency generator. This facility is a dispatch center for the Lakemore fire and safety and on-site emergency power was needed because of the critical nature of the operations. The electrical system consisted of a 250 amp, 208/120 volt, 3-phase, 4-wire system. The building is on emergency power supplied by an 80 kW natural gas generator. This new distribution interfaces with the existing electrical equipment with a 250 amp, 4-pole automatic transfer switch and a new main distribution panel. Design and construction were closely coordinated due to limited space and limited down time permitted for installation.



STRUCTURAL ENGINEERING

Shelley Metz Baumann Hawk, Inc. specializes in providing structural engineering services for architects, contractors and building owners. Our commitment to providing quality service since 1972 has resulted in exceptional experience with all building types including:

- Educational
- Institutional
- Commercial
- Recreational
- Residential
- Healthcare
- Public Projects

As a full service structural engineering firm **Shelley Metz Baumann Hawk, Inc.** provides the following services:

- Design and documentation of building projects including new construction and renovations.
- Assessment and Analysis of existing structural systems
- Failure Analysis and Investigations
- Expert Witness Testimony
- Foundation Systems
- Feasibility Studies
- Code Analysis

The firm and individual staff members are committed to providing service of the highest quality. The key to success of any project is balancing design, functionality and costs. We work closely with our clients to ensure that the structural design compliments each building.

The leadership team of **Shelley Metz Baumann Hawk, Inc.** has over 120 years of combined experience in structural design.

Shelley Metz Baumann Hawk, Inc. enjoys the challenge of developing creative structural engineering solutions.

We listen to our clients.





Robert A. Baumann, P. E. - Vice President

Shelley Metz Baumann Hawk, Inc.

Project Role: Principal / Project Manager

DEGREES/REGISTRATION/EXPERIENCE

Bachelor of Science	Civil Engineering, The University of Cincinnati - 1980
Structural Design Certificate	The University of Cincinnati - 1980
Master of Science	Civil Engineering, The University of Cincinnati - 1981
Registration:	Ohio, Georgia, Kentucky, Iowa, Nebraska, Nevada, Oregon, South Carolina, Washington, West Virginia
Member:	American Institute of Architects (AIA) – Affiliate Member American Society of Civil Engineers American Concrete Institute American Institute of Steel Construction – Design Professional Member American Wood Council, Design Professional Member Structural Engineers Association of Ohio – Charter Member St. Elizabeth Church – Finance Committee Chairman

BACKGROUND SUMMARY

Mr. Baumann has been employed in the consulting structural engineering business since 1981. His prior office and field experience with a registered land surveyor contributes to his knowledge of the design and construction process. His work experience with a general contractor included the construction of building types built of reinforced concrete, steel, wood, masonry and precast concrete. Mr. Baumann has designed new buildings as well as additions and large renovation projects.

Mr. Baumann is experienced in the design of structures built from many types of construction materials including post tensioned concrete. His many years of experience allow him to design innovative, economical, and serviceable structures. Mr. Baumann is experienced in investigative work for adaptive reuse of existing structures. He has provided field observation during construction of many of the projects that he has designed.

PROJECT RESPONSIBILITIES

As Project Manager, Bob will be the primary point of contact for the project. He will provide design input during the conceptual and schematic design phases. Bob will lead the scheduling of the project and coordinate with the Project Engineer for the design and production of the construction documents. He will be involved with the project from beginning to end and provide quality control for the final documents. Bob will coordinate with the design team and participate in the construction administration of the project.

REPRESENTATIVE EXPERIENCE

- **Two Unit Armory – West Virginia Air National Guard**
Wheeling, West Virginia
Construction Cost: \$2,300,000
Completion Date: 1995
- **Limited Army Aviation Support Facility - West Virginia Air National Guard**
Wheeling, West Virginia
Construction Cost: \$4,400,000
Completion Date: 1995
- **Air National Guard – Civil Engineering Building**
Charleston, West Virginia
Construction Cost: \$2,500,000
Completion Date: 2003
- **Fairfield County - Ohio Department of Transportation**
Fairfield County, Ohio
Construction Cost: \$2,100,000
Completion Date: 2005
- **Licking County Rest Area - Ohio Department of Transportation**
Licking County, Ohio
Construction Cost: \$4,250,000
Completion Date: 2006
- **Target Support Structure Investigation - Wright Patterson Air Force Base**
Dayton, Ohio
Construction Cost: \$1,000,000
Completion Date: 2006
- **Ohio Fire Academy - Dormitory & Multi-Purpose Addition**
Reynoldsburg, Ohio
Construction Cost: \$8,000,000
Completion Date: 2005
- **Dublin Service Center**
Dublin, Ohio
Construction Cost: \$4,600,000
Completion Date: 2001
- **Charleston Civic Center Expansion**
Charleston, West Virginia
Construction Cost: \$3,000,000
Completion Date: 2001
- **ODOT Maintenance Facilities**
Geauga County, Ohio
Knox County, Ohio
Washington County, Ohio
- **Gahanna City Building**
Gahanna, Ohio
Construction Cost: \$2,300,000
Completion Date: 1993

Representative Experience

Shelley Metz Baumann Hawk, Inc.

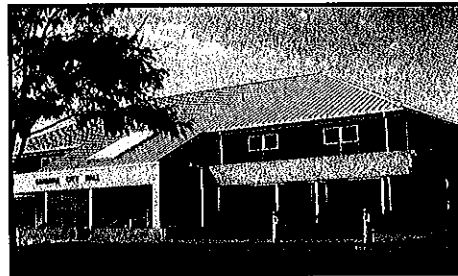
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- **Air National Guard
Civil Engineering Building**
Charleston, West Virginia
Construction Cost: \$2,500,000
Completion Date: 2003
 - **Army Aviation Support Facility
Parkersburg, West Virginia
Wood County Airport**
Construction Cost: \$5,000,000
Completion Date: 1990
 - **Air National Guard
Security Police Facility**
Charleston, West Virginia
Construction Cost: \$500,000
Completion Date: 1992
 - **Air National Guard
Base Supply Warehouse**
Charleston, West Virginia
Construction Cost: \$2,500,000
Completion Date: 1992
 - **Air National Guard
Civil Engineering Warehouse**
Charleston, West Virginia
Construction Cost: \$500,000
Completion Date: 1998
 - **Marine Corp Training Center**
West Virginia
Construction Cost: \$600,000
Completion Date: 1999
 - **Terminal Renovations Phase I & II
Port Columbus International Airport**
Columbus, Ohio
Construction Cost: \$2,000,000
Completion Date: 1998
 - **FAA Building - Central West Virginia
Regional Airport Authority**
Charleston, West Virginia
Construction Cost: \$1,025,000
Completion Date: 1992
 - **Ohio Fire Academy
Dormitory & Multi-Purpose Addition**
Reynoldsburg, Ohio
 - **Limited Army Aviation Support Facility
West Virginia National Guard**
Wheeling, West Virginia
A helicopter hangar and maintenance facility featuring fabricated steel trusses.
Cost: \$6,000,000
Completion Date: 1994
 - **West Virginia Air National Guard
Two Unit Armory
Ohio County Airport**
Wheeling, West Virginia
Construction Cost: \$2,300,000
Completion Date: 1995
 - **Target Support Structure Investigation
Wright Patterson Air Force Base**
Dayton, Ohio
Construction Cost: \$1,000,000
Completion Date: 2006
 - **Grove City Municipal Building
Addition & Renovation**
Grove City, Ohio
Construction Cost: \$1,400,000
Completion Date: 2006
 - **Putnam County Courthouse
Additions and Renovations**
Winfield, West Virginia
Construction Cost: \$2,500,000
Completion Date: 1998
 - **Putnam County Judicial Building
Additions and Renovations**
Winfield, West Virginia
Construction Cost: \$5,500,000
Completion Date: 1997
 - **246 North High Renovation
State of Ohio
Department of Administrative Services**
Columbus, Ohio
This project entails the complete renovation of two existing office buildings at the corner of Chestnut Street and High Street. One building is nine stories. The original portion was constructed in 1906 with an addition in 1948. The other building is eight stories, which includes four levels of parking. Repairs to the

Representative Experience

Shelley Metz Baumann Hawk, Inc.

facade of both buildings and rehabilitation of the four-level parking deck are included in the scope.
 Construction Cost: \$45,000,000
 Completion Date: 2008

- **Rootstown Fire Station**
 Rootstown, Ohio
 Construction Cost: \$2,000,000
 Completion Date: 2002
- **Kent Fire Station**
 Kent, Ohio
 Construction Cost: \$3,000,000
 Completion Date: 2002
- **Dublin Service Center**
 Dublin, Ohio
 Construction Cost: \$4,600,000
 Completion Date: 2001
- **National Radio Astronomy Observatory Visitor & Education Center**
 Greenbanks, West Virginia
 Construction Cost: \$3,200,000
 Completion Date: 2003
- **Rickenbacker Army Enclave Window Replacement and Canopy**
 Groveport, Ohio
 Construction Cost: \$150,000
 Completion Date: 1999
- **Huntington Civic Center Remodeling**
 Huntington, West Virginia
 Construction Cost: \$500,000
 Completion Date: 1999
- **South Zanesville Municipal/Fire Station/ Maintenance Facility**
 South Zanesville, Ohio
 Construction Cost: \$1,500,000
 Completion Date: 2000
- **Beightler Armory Remodeling**
 Columbus, Ohio
 Construction Cost: \$1,500,000
 Completion Date: 1997
- **Ohio State Highway Patrol Posts**
 Norwalk
 Defiance (1990)
 New Philadelphia (1995)
 Marysville
 Wapakoneta (1998)
 Construction Cost: \$1,000,000
 Completion Date: (See above)
- **ODOT County Maintenance Facilities**
Ohio Department of Transportation
 These facilities serve as the county headquarters for the Ohio Department of Transportation. The pre-engineered steel buildings accommodate vehicle maintenance and storage as well as office space. We have been involved with project in the following counties. Seneca, Geauga, Ashtabula, Morrow, VanWert, Champaign, Guernsey, Muskingum, Williams, Hamilton, Franklin, Lawrence, Pike, Fairfield
 Construction Cost: Varies
 Completion Date: Varies



Gahanna City Hall
Gahanna, Ohio
Construction Cost: \$2,300,000
Completion Date: 1993

- **Sewer Maintenance and Operations Center**
City of Columbus
 Columbus, Ohio
 Addition and remodeling of office facilities. Project included vertical expansion of existing two-story building and addition of a 16,000 square foot vehicle maintenance and storage facility.
 Construction Cost: \$8,000,000
 Completion Date: 2005



Engineering Solutions
Client Care
Environmental Stewardship
Community Enhancement
Safety & Sustainability

GAI-Charleston Office Brief

GAI-Charleston

The City of Charleston, located at the confluence of the Elk and Kanawha Rivers, is West Virginia's largest city and state capital. Three major interstates converge in the city's center, placing Charleston within a day's drive of 60 percent of the U.S. population. Downtown and riverfront improvement projects attract visitors to the Capitol Complex, the Kanawha State Forest, and other educational and recreational areas.

Since 1985, GAI-Charleston has provided award-winning consulting services in mine land reclamation and mine drainage engineering. We continue to deliver innovative engineering solutions in transportation, land development, and energy markets, with a particular specialization in landscape architecture and LEED design. GAI-Charleston's premier teams of professionals serve a wide range of clients, including local developers, state government agencies, and large corporations.

General Services

- + Environmental Engineering, Permitting and Mitigation
- + Transportation and Traffic Engineering, Planning & Design
- + Geotechnical and Structural Engineering
- + Mechanical and Electrical Engineering
- + Water/Wastewater Engineering/Utility Management
- + Land Development, Landscape Architecture and Planning
- + Cultural Resources Management
- + Surveying/Geographic Information Systems (GIS)
- + CEI/CMS/Materials Testing
- + Utility Coordination/Eminent Domain
- + LEED Design and Greenhouse Gas Consulting

Specialty Services

- + Grant-writing, Asset Management & Valuation Studies
- + Computer Programming & Web Site Development
- + Graphic Design, Video Production, & Public Outreach

Transforming ideas into reality for over 50 years, GAI is a 700-person, employee-owned, multi-discipline engineering and environmental consulting firm, serving our clients worldwide in the energy, transportation, real estate, water, municipal, government, institutional, and industrial markets from offices throughout the Northeast, Midwest, and Southeastern United States.

GAI Consultants, Inc.

GAI-Charleston
500 Summers Street, 3rd Floor
Charleston, WV 25301
304.926.8100

For more information on GAI Consultants, Inc.,
please visit www.gaiconsultants.com.

C. Elwood Penn, IV, PE

Managing Officer / Assistant Vice President

Education

B.S. Civil Engineering, 1985 Virginia Polytechnic Institute and State University

Professional Affiliations

National Society of Professional Engineers
American Society of Civil Engineers
West Virginia QBS Council
International Right of Way Association
American Society of Highway Engineers (ASHE)

Registrations

Professional Engineer, West Virginia, Virginia, Maryland, Arkansas, North Carolina, Ohio, and Kentucky

Previous Employment

2003 – 2005 Triad Engineering, Inc.
1995 – 2003 The Louis Berger Group, Inc.
1995 H.W. Lochner, Inc.
1988 – 1995 Whitman, Requardt and Associates
1987 – 1988 Draper Aden Associates
1985 – 1987 West Virginia Department of Highways

Professional Experience

Highway

- *U.S. Route 60 - Shrewsbury to Cedar Grove, Kanawha County, West Virginia.*
- *Rivesville – I-79 Connector, Marion County, West Virginia*
- *Monongahela River Bridge and Approaches, Marion County, West Virginia*
- *I-40 Widening, Pulaski County, Arkansas*
- *U.S. Route 58 - Danville Bypass, Pittsylvania County, Virginia.*
- *Route 219, Monroe and Greenbrier Counties, West Virginia*
- *I-664, Chesapeake, Virginia*
- *Charles Town Bypass, Jefferson County, West Virginia.*
- *Corridor G, Boone County, West Virginia.*
- *Loudenville - Cameron E. B. Route 25, Marshall County, West Virginia.*
- *Variform Access Road, Berkeley County, West Virginia.*
- *East Hardy High School Access Road, Hardy County, West Virginia.*
- *Route I-64, Raleigh County, West Virginia*
- *Route I-64, I-70, I-77, Numerous counties in West Virginia. .*
- *Flood Relief Work, Numerous counties in West Virginia.*

Bridge Replacement

- *Chamberlayne Parkway Bridge, Richmond, Virginia.*
- *First Street Bridge, Richmond, Virginia*
- *Worthington Creek Bridge, Wood County, West Virginia.*

C. Elwood Penn, IV, PE

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Managing Officer / Assistant Vice President

- *Carpenters Addition Bridge, Mineral County, West Virginia*
- *Sully Truss Bridge, Randolph County, West Virginia.*

Utilities

- *Rivanna Water Study, Albemarle County, Virginia*
- *Chesterfield Water Study, Chesterfield County, Virginia.*
- *Hopkins Road Water, Chesterfield County, Virginia*
- *Prince George Water Study, Prince George County, Virginia*
- *Gilman Tract Sewer Study, Henrico County, Virginia.*

Land Development

- *Sinclair Broadcast Tower, Putnam County, West Virginia*
- *Oak Lake Business Center, Chesterfield County, Virginia.*
- *Wella Manufacturing Facility, Henrico County, Virginia*
- *Staunton Knights Inn, Augusta County, Virginia.*
- *Fox Ridge Apartments, Montgomery County, Virginia.*
- *Lexington Arborgate Inn, Rockbridge County, Virginia.*
- *Greystone Apartments, Richmond, Virginia.*
- *Hunters Green Subdivision, Chesterfield County, Virginia.*
- *Hidden Valley Subdivision, Chesterfield County, Virginia.*
- *Timbercrest Subdivision, Henrico County, Virginia*
- *Foxfield Town Houses, Henrico County, Virginia.*
- *Waldon Pond, Lynchburg, Virginia.*
- *E.R. Carpenter, Richmond, Virginia*
- *Beaufont Oaks Apartments, Chesterfield County, Virginia.*
- *Henrico Operations Center, Henrico County, Virginia*
- *Monumental Floral, Henrico County, Virginia.*
- *Millboro, Bath County, Virginia.*
- *Hopewell Plaza, Hopewell, Virginia.*

Miscellaneous

- *SPCC Plans – Numerous Counties in West Virginia, Virginia, and Kentucky - Responsible Engineer for the review of over 4,000 Spill Prevention, Control and Countermeasure (SPCC) plans for Equitable Gas well and tank sites.*
- *Landfills - Numerous counties in Virginia - Staff Engineer responsible for miscellaneous design.*

Summary

Mr. Penn specializes in project management and administration in the areas of highways, land development, and utilities. Mr. Penn is also experienced in developing environmental impact statements and assessments in accordance with NEPA regulations.

David Gilmore, RLA, CLARB

Land Development Services Manager / Landscape Architectural Services Manager

Education

BSLA, College of Agriculture & Forestry, 1988 West Virginia University

Professional Affiliations

American Society of Landscape Architects, ASLA
WV Chapter of American Society of Landscape Architects
Council of Landscape Architectural Review Board, CLARB

Professional Development

WVASLA State Licensing Board Member, 2003-2006
Past President, WVASLA
Executive Committee Member, WVASLA
Chairman, WVASLA Licensing and Sunset Review Committee
Judge, Senior Design Awards, West Virginia University

Registrations

Council of Landscape Architectural Registration Board Certified
West Virginia Professional Landscape Architect No. 247
Indiana Professional Landscape Architect No. LA 20700137
Pennsylvania Professional Landscape Architect No. LA 002737
Ohio Professional Landscape Architect No. LA 0801200
Kentucky Professional Landscape Architect No. LA 768

Previous Employment

2003 to 2006 Triad Engineering, Inc. – Senior Landscape Architect
2000 to 2003 Environmental Design Group, Inc. – Senior Landscape Architect/Associate
1993 to 2000 LANDesign Associates – President
1988 to 1993 Valley Gardens, Inc. – Land Planner / Design Department Manager
1987 to 1988 Gifford, Nielson & Riesburg – Land Planner (internship)

Awards

- Merit Award (WVASLA): 'Hyper' Employee Plaza, Main Entrance Improvements
Client: Dupont Company
- Merit Award (WVASLA): Florida Street Revitalization Master Plan
Client: West Side Neighborhood Association

Professional Experience

Mr. Gilmore has 19 years of experience on a diverse range of projects encompassing all aspects of landscape architectural design in both the public and private sector. Experience includes, but is not limited to: project and office management, construction document and technical specification preparation, site analysis, schematic design, construction administration, master & land-use planning (resort, parks, recreational, residential, industrial, commercial), streetscape and municipality improvements, landscape and hardscape design, graphic presentation drawing.

Streetscape / Urban Revitalization:

- Kanawha Boulevard, Charleston, WV.
- Pennsylvania Street, Carmel Indiana
- St. Albans Master Plan, St. Albans, WV.
- St Albans Phase I

David Gilmore, ASLA, CLARB

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Land Development Services Manager

- St. Albans Phase II
- Pennsylvania Avenue Gateway, Charleston, WV
- Florida Street Revitalization Master Plan, Charleston, WV.
- Williamson Master Plan, Williamson, WV.
- MacCorkle Avenue Greenspace Improvements, Kanawha City, WV.
- Kanawha Valley Rapid Transit Shelter/Plaza Design

Parks & Recreation:

- Stonewall Jackson State Park Masterplan, Roanoke, West Virginia
- Twin Falls State Park, Twin Falls, West Virginia
- Dow Heritage Park, Charleston, West Virginia
- Charleston Area Medical Center General Division Employee Park, Charleston, West Virginia
- Dupont 'Hyper' Plaza, Belle, West Virginia
- Ohio to Erie Trail, Multiple Counties, Ohio
- Coonskin Park, Charleston, West Virginia

Hospitals / Institutional / Campus Planning:

- Dow South Charleston Plant
- Beckley Federal Courthouse Security Upgrades
- Charleston Area Medical Center Memorial Park
- King's Daughters Medical Center
- WVU Gateway Study
- Town of Fayetteville Cemetery Master plan
- Trinity Lutheran Church Columbarium Master Plan
- First Presbyterian Church Columbarium Master Plan
- Yeager Airport Master Plan
- The Church of Jesus Christ of Latter-Day Saints, Multiple Projects
- Marshall University Dormitory / Alumni Center
- West Virginia University Dormitory, Evansdale Campus
- West Virginia University Dormitory, Downtown Campus
- Potomac State Dormitory
- West Virginia State Student Housing, Institute, West Virginia

Development / Site Planning:

- Cheat Landing Office Park, Morgantown, West Virginia
- The Villages at Cheat Landing, Morgantown, West Virginia
- The Pines Country Club, Morgantown, West Virginia
- Stonegate at Cranberry, Cranberry Township, Pennsylvania
- Chesapeake Energy Regional Headquarters, Charleston, West Virginia (**LEED Project**)
- Chesapeake Energy Field Office, Jane Lew, West Virginia
- Chesapeake Energy Field Office, Mount Morris, Pennsylvania
- Chesapeake Energy Field Office, Honey Branch, Kentucky
- Ridge Run @ North Camp, Wisp Ski Resort, Deep Creek Maryland
- Cambridge Place Office Park, Bridgeport, West Virginia
- Stonewall Jackson State Park Masterplan, Roanoke, West Virginia
- Land-use Study / Development Alternatives, Aspen Corporation, Lewisburg, West Virginia
- Commerce Park Mixed-use Development Masterplan, Huntington, West Virginia
- Fort Boreman Mixed-use Development Masterplan, Parkersburg, West Virginia
- Wilkerson Dental Office, Charleston, West Virginia
- Ocean Isle Beach Resort Masterplan, Ocean Isle, South Carolina
- 5/3 Bank, Cross Lanes, WV.
- Banc One, Teays Valley WV

James Hemme, P.E., L.R.S.

Senior Engineering Manager

Education

B.S. Civil Engineering, 1989 West Virginia University Institute of Technology
Marshall University Graduate College – Various Courses in Environmental Engineering

Registrations

West Virginia Professional Engineer No. 12195
Kentucky Professional Engineer No. 25437
Ohio Professional Engineer No. 72851
Indiana Professional Engineer No. 10809277
Pennsylvania Professional Engineer No. 75494
New York Professional Engineer No. 85794
West Virginia Licensed Remediation Specialist No. 003

Professional Development

OSHA 40 hour Hazwopper Training
NICET 1 – Geosynthetics Installation Inspection (expired)
Nuclear Density Gage Training – DOT and NRC (expired)
MSHA Safety Training (expired)

Awards

- National Radio Astronomy Observatory (NRAO) Wastewater Treatment Plant Design (Project Manager) – WV ACEC Gold Award
- Florida Street Streetscape Masterplan (Senior Engineer) - WV ASLA Honor Award
- Dupont Hyper Plaza Design (Senior Engineer) – WV ASLA Honor Award
- Kanawha Trestle Rail Trail Masterplan (Project Manager) – WV ASLA Merit Award and WV ACEC Silver Award
- April Dawn Park Sprayground "Teays Valley Monster" (Senior Engineer)–WV ASLA Honor Award and WV ACEC Gold Award
- Coldwater Creek Distribution Center Site Preparation (Project Manager) – WV ACEC Gold Award

Professional Experience

Mr. Hemme has a wide variety of experience with correctional and judicial projects and other environmental, civil engineering, site development, streetscape, and planning projects while at GAI and through previous employment. He has worked extensively with private developers, architects, municipalities and governmental agencies. He is an expert in site engineering, NEPA compliance and storm water management. He has worked on landfills, quarries, mines, industrial, and commercial facilities. He has performed many Phase 1 environmental site assessments; solid waste, industrial waste, erosion and sediment control permitting; designed extensive storm water management systems; designed both large and small site developments ranging from 1 acres to hundreds of acres in size; designed wetland mitigation areas; assisted in the preparation of geotechnical reports; flood plain modeling, highway/roadway design, right-of-way plans, prepared detailed construction plans and cost estimates for projects ranging from \$10,000 to multiple millions.

Representative Project Experience:

Correctional and Judicial Facilities:

- Huttonsville Work Camp – Project Manager for the site design and permitting associated with the proposed work camp facility to be located across Rt. 250 from the maximum security location.

Correctional and Judicial Facilities (continued):

- Huttonsville Correctional Facility – Project Manager for the retrofit design of the current wastewater treatment facility experiencing temperature, grease and trash issues
- Anthony Correctional Center – Project Manager for the design of a package potable water treatment plant for a rural correctional facility running off of springs.
- Morgan County Courthouse Replacement, Berkeley Springs, WV – Senior Engineering Manager for site design and permitting associated with a new facility in a historic location. Includes the establishment of a TMDL for Warm Springs Run to use the naturally warm water with an innovative HVAC system to supply inexpensive heating and cooling for the facility.
- Greenbrier County Courthouse Annex and Expansion, Lewisburg, WV – Project Manager for the site design development drawings and budgetary cost estimation.
- Raleigh County Courthouse Annex Design, Beckley WV – Urban infill location with coordination of existing structures and utilities.
- Hampshire County Courthouse – Remedial storm water drainage design.
- Pruntytown Correctional Facility – Site design for an emergency generator pad and maintenance access.
- St. Marys Correctional Facility – Environmental investigation to determine if contaminants of concern were present as a potential cause of a K-9 officer illness and fatality at the kennel.
- Correctional Officer Training Academy – Feasibility study to determine siting requirements for a modular training academy building at property located near Ripley WV.

General Engineering and Permitting Experience:

- Site Design for over 100 different projects throughout WV, OH, KY and PA
- Design of over 50 storm water management systems
- Detailed design of over 100 different ponds, embankments and lagoons
- Preparation of over 100 detailed erosion and sediment control plans
- Preparation of over 100 NPDES Construction Storm water Permit Applications
- NEPA compliance for wetlands, streams, cultural resources, endangered species, etc.
- Phase 1 Environmental Site Assessments for a wide range of facilities

Site Development and Planning:

- Chesapeake Energy Regional Headquarters, Charleston, West Virginia (**LEED Project**)
- Chesapeake Energy Field Office, Jane Lew, West Virginia
- Chesapeake Energy Field Office, Mount Morris, Pennsylvania
- Chesapeake Energy Field Office, Honey Branch, Kentucky
- The Pines Country Club, Morgantown, West Virginia
- Dow Chemical South Charleston Plant – Entrance, Parking and Pedestrian Improvements
- Coldwater Creek Distribution Center and Wetland Mitigation in Parkersburg, WV
- Tamarack Phase 2 Expansion, Beckley, WV
- Marshall University Clinical Outreach and Education Center, Huntington, WV

Business Park and Subdivision Planning:

- Cheat Landing Office Park, Morgantown, West Virginia
- Ft. Boreman Development–Master Plan Site Preparation and Roadway Design, Parkersburg, WV
- The Villages at Cheat Landing, Morgantown, West Virginia
- Almost Heaven Habitat for Humanity – South Fork Crossing Subdivision, Pendleton Co., WV
- Stonegate at Cranberry, Cranberry Township, Pennsylvania

Parks & Recreation:

- Golf Club House and Lodge Site Development at Stonewall Jackson State Park
- Cedar Creek State Park Camp Ground Expansion, Glenville, West Virginia
- Dow Heritage Park, Charleston, West Virginia
- Fort Boreman Historic Park, Parkersburg, West Virginia
- Dupont 'Hyper' Plaza, Belle, West Virginia
- April Dawn Sprayground and Park "Teays Valley Monster"
- Rotary park Improvements, Huntington, WV

Streetscape and Trails:

- Kanawha Trestle and Rail Trail Master Plan
- Florida Street Master Plan for the City of Charleston, West Side Neighborhood Association
- City of Richwood, West Virginia Streetscape Master Plan and Phase 1 Construction
- Phase 1 of the Florida Street Streetscape
- Washington Street East Phase 2 Streetscape, Charleston, WV
- Pennsylvania Avenue Streetscape, Charleston, WV
- City of Charleston, East End Design Cheret
- City of Charleston, "Think Tank" Design Cheret
- Volunteer in preparation of Greater Charleston Greenway Initiative by the WV Land Trust Co.
- Current volunteer with the Riverside South Committee / Charleston Land Trust
- North Bend Rail Trail Flood Damage Repair

Solid Waste Management and Engineering:

- **Design and permitting for 50 different solid waste facilities in WV, VA, OH.**
- Berkeley County Solid Waste Authority – Siting Study regarding suitability of property
- North Fork Landfill – 50 acre landfill over previously deep mined area
- Nicholas County Landfill – Small rural landfill expansion with special steep slope design
- Disposal Service Landfill – Unique multi-stage expansion of a landfill including steep slope design
- Boone County Commission – Permitting of various solid waste transfer stations
- Page County Virginia – Comprehensive Countywide search for a regional landfill
- Anker Energy – Conceptual study to determine feasibility of fly ash disposal facility
- Elkem Metals – Fly ash landfill utilizing a geosynthetic clay liner and special slope design

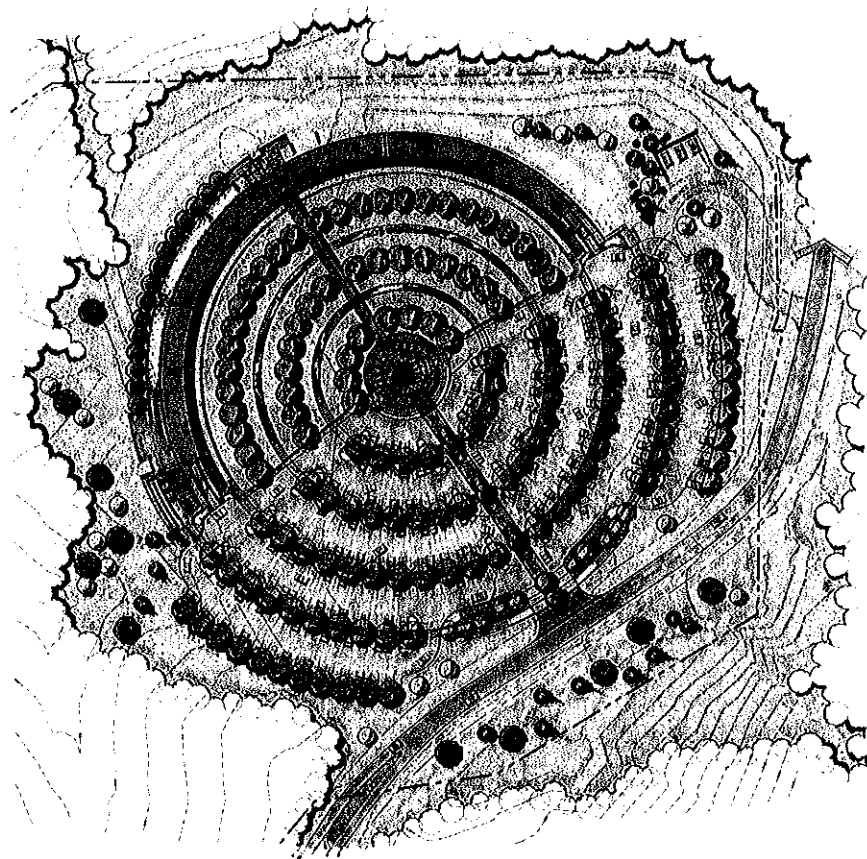
Waste Water and Potable Water Design:

- National Radio Astronomy Observatory – Design of a unique, non-mechanical, award winning treatment system that uses no electricity and treats the entire campus wastewater load.
- Manufactured Housing Development Waterline Replacement – Design of over 5 miles of water line within an existing 1000+ unit manufactured housing development.
- Pocahontas County Landfill – Modular trickling sand filters with aeration pond and polishing wetland
- Multiple Landfills – Pre-treatment system design to remove high BOD levels prior to WWTP
- Storage Tank Design – Multiple bolted or welded steel tanks primarily for leachate storage

Abandoned Mine Land (AML) Reclamation and Acid Mine Drainage (AMD) Treatment:

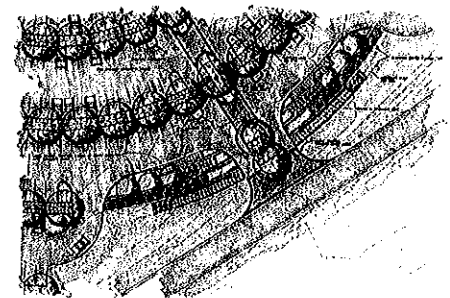
- Richard Mine Acid Mine Drainage – Treatment Alternatives Report, Monongalia County, WV
- Richard Mine Flow Monitoring Study – Design, installation, full time flow monitoring and reporting for a 1 year period on drainage from a substantial AMD discharge.
- East Branch Raccoon Creek AMD Treatment Design – ODNR
- Vens Run Landslide Reclamation #2 Design and Permitting – Harrison County, WV
- Whites Run Reclamation Permitting – Randolph County, WV

Chesapeake Energy Eastern Division Headquarters Charleston, West Virginia



GAI Project Manager:
David Gilmore, ASLA, CLARB
Project Team:
GAI Consultants, Inc. (Prime)
Client:
Elliott + Associates Architects
Client Contact:
Bill Yen
405.232.9554
Project Cost:
\$35 Million
Completion Date:
2009

#E070497



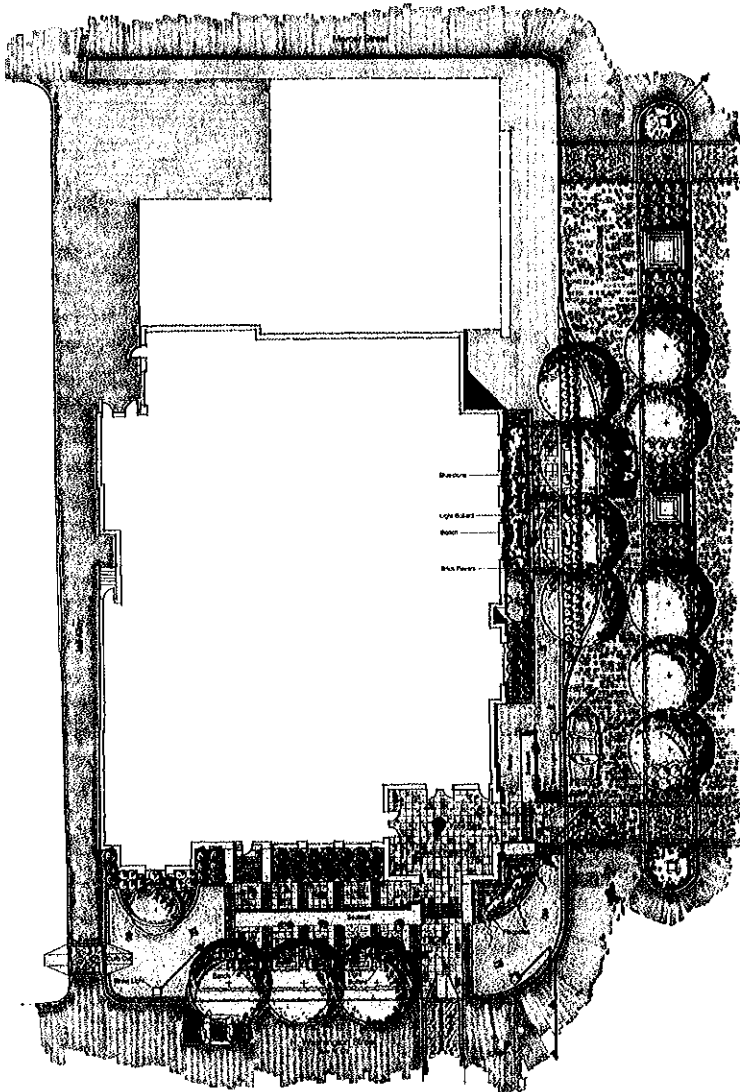
Brief Project Description

GAI Consultants, Inc. (GAI) was contracted by Elliott and Associates Architects to provide site design services for Chesapeake Energy's Regional Headquarters. The project included preliminary site layout, coordination of subsidence investigation, grading, storm water, utilities, landscaping, and signage. Also included in the project tasks was obtaining permitting through West Virginia Department of Environmental Protection and Army Corp of Engineers. In addition to the permitting, the building and site were designed using the LEED (Leadership in Energy and Environmental Design) rating system to attain a silver or gold designation. The site LEED elements included capturing rainwater for reuse to supplement the site irrigation system, and minimizing site footprint. The site supports a 4-story 121,000-square-foot building that contains 366 offices, an employee cafeteria, and a 6,500-square-foot fitness center.

Work Tasks/Services

- Preliminary site layout
- Coordination of subsidence reports
- Grading
- Storm water design
- Coordination of lighting and irrigation design
- Utility design
- Landscaping/signage design
- Permitting (WVDEP, Corps of Engineers)
- Assist in LEED requirements

Morgan County Courthouse *Morgan County, West Virginia*



GAI Project Manager:
David Gilmore, ASLA, CLARB

Project Team:
Silling Associates Architects (Prime)
GAI Consultants, Inc. (Subconsultant)

Client:
Morgan County

Client Contact:
Tom Potts, AIA
304.346.0565

Project Cost:
\$12 Million

Completion Date:
2009

#E080211

Brief Project Description

GAI Consultants, Inc. (GAI) was contracted by Silling Associates Architects to provide site design services for the new Morgan County Courthouse located in historic Berkeley Springs, West Virginia. The project included preliminary site master planning, utility design, grading, and site drainage. Also, included in the tasks was coordination of site design with a streetscape plan that had been initiated prior to the start of GAI's site design. The site supports a three story, 13,415-square-foot courthouse building that will support many of Morgan County's judicial offices including Magistrate Court, Family Law Court, and Circuit Court.

Work Tasks/Services

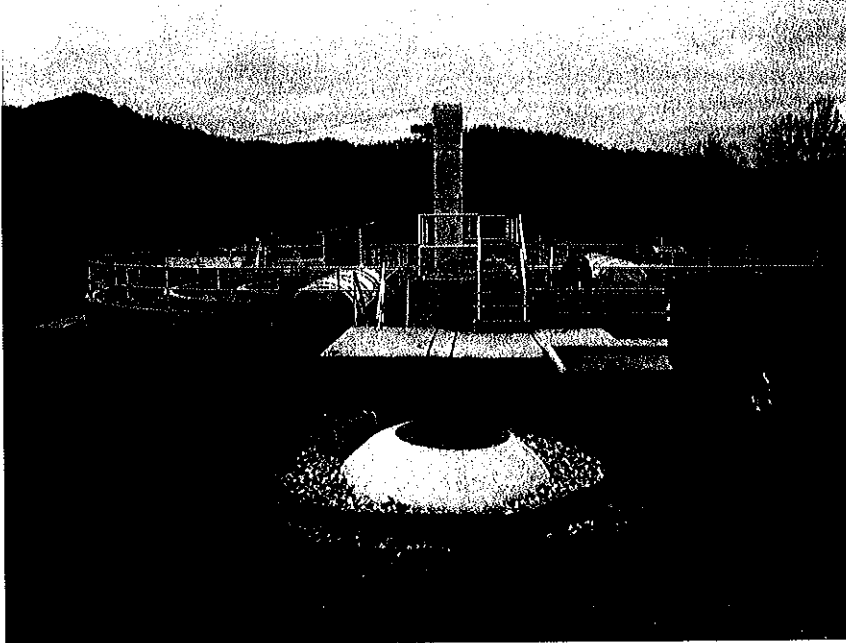
- Preliminary master planning and design
- Coordination of utilities
- Utility design
- Grading
- Site drainage
- Landscaping/site amenities
- Coordination of design with local streetscape committee

Environmental Compliance

Correctional Facilities



Huttonsville Correctional Facility Waste Water Treatment Plant Improvements



GAI Project Manager:
James Hemme, P.E., L.R.S.

Project Team
Silling Associates, Architects
(Prime)

GAI Consultants, Inc.

Owner:
West Virginia Department
of Corrections

Estimated Completion Date:
Summer 2010

Estimated Construction Cost:
\$450,000

Brief Project Description

GAI Consultants, Inc., through Silling Associates Architects designed process improvements for the existing 200,000 gallon per day wastewater plant for the Huttonsville Correctional Facility located in Randolph county West Virginia.

The existing wastewater plant was constructed in the mid 1990's as part of a large expansion project. Over the past decade increasing monthly flow rates, elevated wastewater temperatures, grease and trash became critical operational concerns. GAI worked with correctional facility staff to explore the root causes of these issues and formulate a retrofit that would not adversely impacting plant operations during construction. GAI initially performed extensive research to compare historical wastewater flow to precipitation events to determine if stormwater inflow and infiltration (I&I) was a contributing factor. Results of that study indicated that I&I was not a substantial contributor to the increased flow.

The solution came in the form of a partially buried concrete surge tank/basin. This 50,000 gallon reinforced concrete surge basin was sized to handle excessive peak flows that had been determined from the historical flow monitoring records. The partially buried tank with open top also provided a stilling basin out of the direct sun to assist in cooling the wastewater. An oil and grease separator was added to the end of the surge basin to remove additional oils and greases. By installing at the end of the tank system, cooling time was maximized to allow the oils and greases to better coalesce and improve removal rates. At the entrance to the surge basin a new screen system was installed to improve removal of the multitude of trash encountered in correctional facility wastewater while still allowing the important organic matter to continue on to the treatment process. The proposed facility has been designed to be constructed adjacent to the existing plant and supplement its operation without impacting the current and successful treatment system.

Environmental Compliance

Correctional Facilities – Potable Water Treatment



Potable Water Treatment Plant for Anthony Correctional Facility

GAI Project Manager:
James Hemme, P.E., L.R.S.

Project Team
Silling Associates, Architects
(Prime)

GAI Consultants, Inc.

Owner:
West Virginia Department
of Corrections

Estimated Completion Date:
April 2010

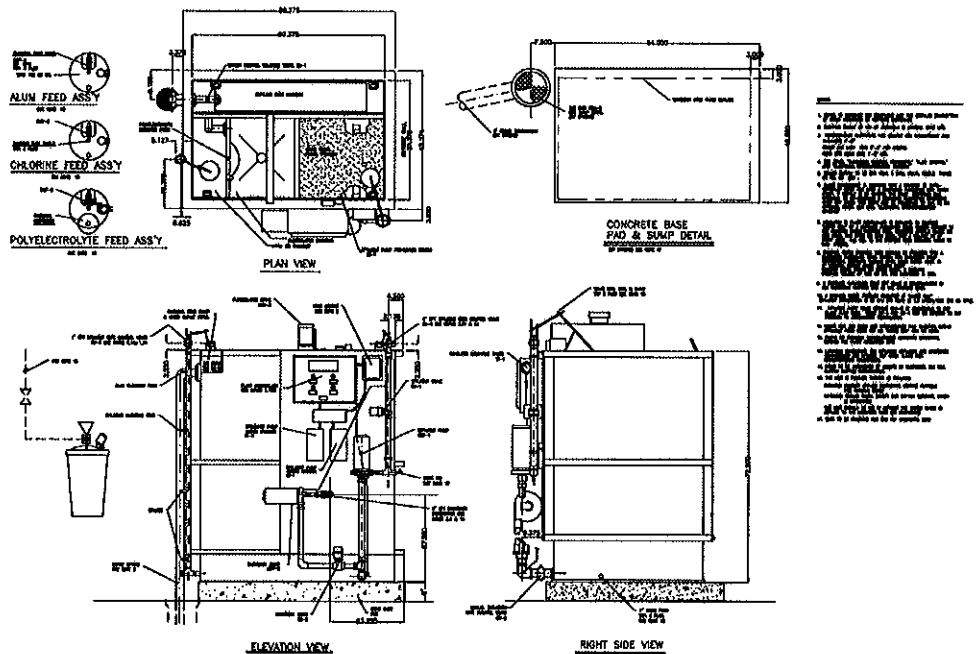
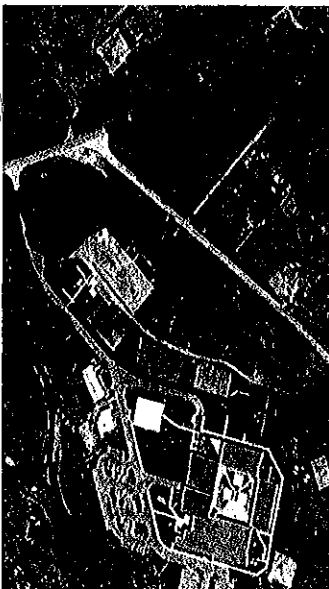
Estimated Construction Cost:
\$550,000

Brief Project Description

GAI Consultants, Inc., through Silling Associates, Architects designed a new potable water treatment plant for the Anthony Correctional Facility in rural Greenbrier County.

The Correctional Facility had operated for years using groundwater from wells and a basic filtration system to provide water for the site. As the wells and filtration system have aged, the level of iron has increased and filtration capacity decreased so a modern treatment system had become necessary. Due to the rural nature and topography surrounding the site, utilizing surface water from nearby Anthony Creek or construction of a water line from a public service district was determined to be infeasible.

GAI designed a system that could treat the daily required water in one 8 hour shift for an operator. This involved one 18,000 gallon raw water storage tank and two parallel 20 GPM packaged water treatment plants with each plant having single stage flocculation, tube settler and mixed media filter and new chemical mixing equipment. The system was set up to use treated water to backwash the filters. The system was also designed to be contained in a simple concrete building that could be brought to the site in two pieces and provide greater security than a standard stick built structure. The plant design provides redundancy and also facilitates maintenance by allowing one plant to be shut down while still maintaining treatment capabilities in the other plant.



WEST VIRGINIA LEADERSHIP CENTER

APPROACH TO A SUCCESSFUL PROJECT

Silling will begin immediately by working closely with the WV Army National Guard to (1) gain an clear understanding of the required programming, planning, and design objectives required for the proposed Readiness Center, (2) provide appropriate implementation of the program and concept, (3) provide a state-of-the-art facility that responds to the needs of the WV Army National Guard, (4) develop appropriate LEED/sustainable design strategies, and (5) provide a thorough and responsible administration of the construction contract.

Project Management – Client Service

One of the most important aspects for the client in selecting a design professional is the ability to work together in a professional manner. Silling Associates has built its reputation on client service and responsible, personal project management. The foundation of this approach is a set of the following core competencies and expectations of the project design team that lead not only to excellence in design, but also a rewarding experience for our clients:

- Clear, honest, and timely communication
- Professional competence and courtesy
- Excellent people and management skills
- Creativity and design leadership
- Skilled in working with multiple group dynamics
- Foreseeing problem areas and eliminating delays
- Close adherence to design schedules and a responsible approach to coordination

Cost Management

For various reasons, it is critical to have both experiences in the West Virginia construction market and an effective cost management strategy. Prevailing wage rates and availability of construction trades are key factors which make projects in the state of West Virginia different than neighboring markets. It is also a fact that over the past four years construction costs have undergone significant escalation. No doubt, costs of material and labor will continue an aggressive increase throughout the planning process, and this volatile condition can make it difficult to forecast the results when competitive construction bids for the facility are opened.

Silling Associates has a demonstrated track record of managing client budgets, resulting in a sophisticated and thorough approach to managing the process. Critical to the effort are our intimate relationships with the region's contractors, sub-contractors, and material supplier leaders, all assisting in the forecasting of the bidding market through the design process.

Project Leadership

Silling Associates Incorporated will be the **Architect of Record** and **Design Principal**, maintaining and facilitating effective communication and coordination with the Guard, design committee, and the team of consulting engineers. **Mr. Tom Potts**, president of Silling Associates, will be the **Project Executive** with final design team authority. Mr. Potts will maintain overall project development responsibility including the programming, schematic design and design development efforts, project budget, design schedule, and document production.

The Planning Process

The planning process is paramount. It must be anticipatory, responding to current national and state Readiness Center requirements while being adaptable to future trends and technology. We understand that these facilities require a careful balance between construction budgets and the requirements of space, quality, and security. Thus, the approach outlined further is the foundation to effective planning and design.



APPROACH TO A SUCCESSFUL PROJECT

Owner Involvement in the Creative Process

Silling Associates practices a policy of owner involvement in the design of all its buildings. This involvement includes the intense solicitation of ideas from representatives of the owner, verification of any assumptions and the earnest search for consensus of design solutions.

Owner involvement is typically achieved through a series of face-to-face design workshops. The process would involve key participants including the Guard and end-users, working together to develop a set of conceptual plans. The activities and schedule of a typical design workshop are described below.

Design Workshops

These two- to three-day design workshops will build consensus toward a final building program, site utilization, a project budget, and importantly, an agenda for action. The success of this process is a function of a professional, highly orchestrated procedure involving the intense solicitation of ideas, verification of assumptions, and earnest search for consensus of planning and design solutions from a broad base of participants.

Benefits

- Extensive WV Army National Guard participation
- Reduction of the number of meetings required
- Reduction of the length of time between meetings
- Rapid feedback of critique leading to the evolution of new ideas
- Face to face contact between all team members
- Develops consensus of the among all parties

Programming

The programming phase will allow the Guard the opportunity to interact with the Design Team to convey their goals and aspirations for the new Readiness Center. The design process is structured so that consensus can be reached among the stakeholders. This is accomplished by involving the broadest range of participation in the planning process that the Guard deems appropriate. Design issues we believe are important to the Guard include:

- Highly modern facility
- Visual awareness of the Guard by the community
- Appropriate site and building security
- Aesthetically pleasing and inviting
- Highly functional and efficient for staff and users
- Maximum utilization of the proposed site
- Site infrastructure design
- LEED/Energy Efficient Design

Schematic Design and Design Development

Following approval of the architectural program we will proceed to other steps of the design process, namely, schematic design and design development. During the schematic design phase, a conceptual design will be submitted and refined until approved. Other options will be considered as new information becomes available. The design development phase will further detail and refine the preferred concept.

APPROACH TO A SUCCESSFUL PROJECT

During schematic design and design development, we expect to meet with the stakeholders on a regular basis. We recommend personal meetings every 3-4 weeks, however, the schedule can be somewhat flexible based on the Guard's needs. Face to face meetings and site visits keep communication flowing throughout the course of the project; keep the job on schedule; and provide the sub-consultants information they need to keep working.

Silling employs state-of-the-art communications such as video teleconferencing, FTP sites, and email, all which enable instantaneous meetings and transmittal of documents and drawings. As a result of our carefully planned communication procedures, our clients tell us we have better communications with them than they have ever experienced before. A thorough and professional communications discipline is just one of the reasons clients continually return to Silling for professional services.

Demonstrated Experience – LEED Certified Building Design

Our design team is comprised of architects and engineers who represent the spectrum of disciplines typically engaged in the integrated design process. We bring the strengths and experience of professionals representing sustainable design together in a powerful collaboration.

The Design Team recognizes the importance of a green building design approach to each project and is committed to sustainability and an uncompromising service of design, fiscal responsibility, and functional program performance.

We are committed to positively affecting the well being of our communities and environments by helping our clients successfully adopt sustainable design and facility management practices. We employ LEED-certified architects and other professionals who have a proven ability to identify and support sustainable building strategies appropriate to specific building types, climates, and bioregions.

Silling and its consulting engineers are knowledgeable with the LEED rating system and our firms are members of the U.S. Green Building Council. We plan and design buildings to be economical and energy efficient, harnessing available resources, such as passive solar heating and cooling and natural lighting, and couple them with technological advances such as controlled energy management zones and water-efficient plumbing fixtures.

We know that sustainable architecture can be achieved through ordinary means; it doesn't necessarily require increased budgets. By manipulating a building's most basic elements an architecturally sustainable building can be constructed as economically as traditional construction. The shape of its envelope, its orientation to the sun and winds, and its relationship to its landscape are among the most essential decisions made in any building design process. In these issues, the less costly choice can often be sustainable architecture, as sustainability favors compactness and respect for topography.

During the construction phase, the design team would verify that the work, products, and materials are in compliance with the construction documents and specifications. Our design team can guide your project through the environmental, economical, and social aspects of sustainable building design.

WEST VIRGINIA ARMY NATIONAL GUARD NEW READINESS CENTER

APPROACH TO A SUCCESSFUL PROJECT

Resources

Silling Associates offers the West Virginia Army National Guard one of the most talented and resourceful architectural firms in the state of West Virginia. Our staff of sixteen serving the architectural disciplines include two principal architects, a senior associate, a construction period manager (licensed architect), project managers and designers, interior designers, CAD technicians, and administrative staff members. Our team of consulting engineers provide an additional 80+ design professionals serving the mechanical, electrical, plumbing, telecommunications, structural, and civil engineering disciplines. In total, we offer exceptional resources to effectively manage multiple projects throughout every region of the state of West Virginia.

Project Leadership

The Guard will receive Principal-led project management across all design disciplines from project conception through completion. In total, we have dedicated five firm principals who will be assigned to these projects. Mr. Tom Potts, serving as your Project Executive, will assume comprehensive responsibility for the entire project including overall project management, architectural design, coordination of the engineering team, and direct communication with you, the owner.

Project Collaboration

Each of the Design Team members share extensive collaborative experience together, which facilitates a highly technical, yet seamless approach to the successful integration of architectural and engineering systems. Rather than employing only a handful of in-house engineers who only work on a limited amount of projects each year, Silling (and your project) have access to an expansive engineering team that brings a wealth of diverse project experience, technical capabilities, and talent. Our consultants routinely manage 30 to 50 projects per year for a number architectural firms in West Virginia and Ohio, giving them an incredibly broad range of experience and technical knowledge.

Direct Experience

Silling Associates and the Design Team offers a diverse level of experience that is well-suited for the new National Readiness Center in Parkersburg. This experience includes both general and technical classrooms, governmental offices, physical and electronic security design (both site and building), industrial and commercial vehicle maintenance facilities, multi-purpose auditoriums, dining and kitchen facilities, locker and shower facilities, and fitness rooms to name a few.

In addition to our past WV Army and Air National Guard projects, Silling and its Design Team has earned an outstanding reputation for their work with the State of West Virginia, including a ten-year relationship with the West Virginia Lottery Commission, a 15+ year relationship with the West Virginia Division of Corrections, and multiple and ongoing projects for the West Virginia Supreme Court of Appeals.

Commitment

Silling Associates and our Design Team are truly excited to lead the WV Army National Guard and continuing our legacy of first-class design and service to the State of West Virginia, providing our services with extraordinary care and diligence, exceptional leadership, and an unwavering commitment to complete client satisfaction. Our current and projected workloads is such that this project will receive the highest of priorities, allowing our Team to meet any aggressive project schedules that may be required. Our combined staff of over 90 design professionals will facilitate a well-designed, well-coordinated, and well-delivered project for the WV Army National Guard. We look forward with great anticipation to the opportunity to interview before the Guard and further outline our specific approach to the National Readiness Center project.