

higher education justice workplace residential worship governmental secondary education healthcare recreation interiors

Expression of Interest:
Architectural & Engineering Services
West Virginia Lottery
RFQ# LOT502
February 27, 2013

02/27/13 11:36:26 AM
West Virginia Purchasing Division



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February 27, 2013

Department of Administration
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, West Virginia 25305-0130

Re: Expression of Interest, LOT502

Dear Selection Committee Members,

Silling Associates, Architects + Planners, is pleased to submit an Expression of Interest to provide complete architectural/engineering design and construction administration services for the WV Lottery Renovation project. We offer the Lottery one of the most professional and experienced architectural firms in the state of West Virginia offering an unparalleled reputation for quality design and project management for the state of West Virginia and a highly-talented design team with years of project collaboration and success. Most specifically, we offer recent and extensive experience through the development of the overall building assessment and first phase of renovations to City Center West for the Lottery Commission.

Silling Associates Incorporated was established in 1977, restructuring the firm of C.E. Silling and Associates. Prior to 1950 the firm was under various forms of ownership dating to 1902, including, H. Rus Warne; Warne, Tucker and Silling; and Silling and Hutchinson. The efforts of these architects are seen in the many prominent structures and institutions throughout the state, including the West Virginia Culture Center, WVU Coliseum, and National Bank of Commerce office tower—just to name a few. Thus our present staff carries forth over 100 years of tradition and a library of architectural documentation spanning the twentieth century. We are proud of the distinction as West Virginia's longest continuing architectural practice, and one of the oldest firms in the eastern United States. Since 1977, Silling Associates has continued to have a powerful impact on the region's built environment through fresh, yet solid design and responsible construction contract administration.

Scheeser Buckley Mayfield, our primary MEP & civil engineering consultant, offers extensive experience working within the WV marketplace and is highly regarded by such clients as Marshall University, Thomas Memorial Hospital, Cabell Huntington Hospital, West Virginia State University, the State of West Virginia, and of course the WV Lottery Commission. **Shelley Metz Baumann Hawk**, structural engineers, completes the design team and also provides successful experience serving the WV Lottery Commission and many other WV clients.

We have enclosed a summary of our qualifications for your review including firm profiles, professional resumes, project experience, and client references. We look forward to an interview and opportunity to discuss in further detail our experience and specific approach to this very exciting project.

Sincerely,

SILLING ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Jody S. Driggs', is written over the printed name.

Jody S. Driggs, AIA, NCARB
Vice President

Silling Associates, Inc. – Architect of Record

Silling Associates, Inc. is a West Virginia practice, through and through. Established in Charleston in 1902, we take great pride in being the longest continuing practice in the state and one of the oldest in the country. Our legacy of bettering the lives of West Virginians through the built environment is a commitment we take with much enthusiasm, creativity and hard work. Ours is a practice centered on client service; learning their needs and devoting our energies into producing buildings that exceed their expectations at every level. Our success is evidenced by a reputation throughout the state for clear project leadership, highly detailed documents, and completed works which speak to the values and goals of the client and communities for which they are built.

As a legacy architectural firm with a long and rich history serving the State of West Virginia, Silling has remained committed to the continued preservation and improvements to our State's most significant governmental buildings. Understanding the vision of the State of West Virginia and the WV Lottery forms the inspiration to what we see as our primary role in serving you: project leadership from start to finish.

As your architect, we will lead the design process from pre-planning, programming, design and construction document production, construction administration, and post-occupancy support. Our experience is something that the State and many other institutions have come to rely on. Members of our design team have worked not only with the West Virginia Lottery – City Center West renovation project, but numerous small and large scale projects serving the State Capitol Complex, county governmental agencies, colleges and universities, and corporations with broad and dense organizational structure.

Our abilities to communicate, organize, schedule, adapt, and coordinate with all project stakeholders at a high level of efficiency will be crucial to the success of the WV Lottery Renovation project. Our qualifications for this project are exhibited by a team of architects and designers handpicked for their respective qualifications and skill sets, a vastly diverse portfolio, and specifically our own unique collective and individual experiences in delivering the most refined design services for our West Virginia clients.

Our staff is comprised of seven licensed architects with a combined 115 years' of professional experience in design and project management. Each of these individuals bring unique qualifications, certifications, licensures, and professional service credentials, as well as a powerful resume of collegiate honors, graduate degrees, and community involvement. Three of our architects, including both partners, have served as current or past presidents of the West Virginia Chapter of the American Institute of Architects.

Our firm's architects hold combined licensure in six states including West Virginia, Virginia, Ohio, Kentucky, Pennsylvania, and Maryland. The core team of professionals hold certifications with AIA, NCARB, LEED AP, CSI, educational planning organization, and historic preservation groups to name a few. Each bring a keen perspective of architectural design, project management experiences, and have been honored with design awards throughout their professional careers. In addition to these seven architect employees, Silling has a team of three architectural designers holding professional degrees and pursuing licensure. They have graduated at the top of their class in both bachelor and master's degree programs across the country. They have been instrumental in expanding our sustainable design philosophy focus, our technical design software palette including Building Information Modeling, rendering, and production software, and are all active participants in the ongoing design dialogue of every project we undertake.

Likewise, our team of engineering consultants represents the most competent and capable firms in their respective disciplines, each has a strong history of collaborating with Silling Associates for all major projects over the last twenty to thirty years, and they have a proven history of delivering exceptional services to the State of West Virginia, General Services Division, and WV Lottery. We have grown accustomed to responsive design solutions and continue to hire each of these consultants due to the level of principal involvement and professional care they deliver. As with the case of our firm, the principals and partners of every design team member we bring will be actively involved with the WV Lottery, and each will serve daily design and production roles ensuring that design excellence is achieved. Silling Associates' collective staff resources, as well as those of our consultant team members, presents great capacity to service the project. We believe through both capacity in numbers, as well as talent, that no other West Virginia firm is more qualified to deliver the scope of services required to produce the expected quality of programming, design, document production, and construction administration support within the budgetary and scheduling constraints required for this project.

As general practitioners of architectural design, Silling Associates has extensive recent and relevant, as well as historic, experience with every building type. While we certainly have a core of project typologies that have evolved within our specific market demands, we have been highly successful through our flexibility and competencies to deliver excellent service for projects large and small, and in a broad range of uses. Current projects reflect a wide range of projects including collegiate campus master plans and new convocations centers and arenas, governmental projects ranging from small renovations to 100,000 square foot new county facilities, new hotel and resort facility designs, custom sustainable design services for single family residences, and in recent years, our firm alone has designed nearly 2 million square feet of building construction touching virtually every sector of building occupancy classification.

Design Team Experience

Our portfolio includes projects in a vast range of sizes, typologies, and complexities and speaks directly to our ability to manage the diversity of projects required through this contract. Likewise, our staff and those of our consultants bring a deep pool of design professionals with an equally diverse range of specializations and experiences.

In addition to a long and highly successful history serving the WV Lottery, our firm's experience includes design commissions serving the West Virginia State Capitol Complex -- including the original design for Building 4, the West Virginia Culture Center, Capitol Complex Master Planning, and various renovation projects over the years. We offer our most recent contributions to various agencies for the State of West Virginia and to various other notable county governmental entities:



WV Lottery Headquarters

- Various Existing Building Assessments
- City Center West Renovation



East Wing Renovations, WV Supreme Court of Appeals

- Renovation of Court Attorney's Offices (2008)
- Renovation of the Justices' Conference Room & Kitchenette (2009)
- Restoration of the Justices' Chamber Suites (2009-2010)
- Renovation of the Chamber Hallway (2010)
- Renovation of the Courtroom Lobby (2011)
- Renovation of the Law Library Offices (2011)
- Historic restoration of the Supreme Court Courtroom (2012)
- Renovation of Clerk's Office (2012)



WV State Capitol Exterior Lighting Redesign

- Exterior Lighting Improvements & Energy Efficiency



WV Capitol House Elevator Upgrade

- Elevator Upgrade



WV Division of Corrections
-Various Building Projects



Morgan County Courthouse
-New County Courthouse



Raleigh County Judicial Center
-New Judicial Center



Hampshire County Judicial Center
-New Judicial Center



Hampshire County Courthouse
-Historic Restoration & Renovation



Putnam County Courthouse & Judicial Center
-New Judicial Center
-Courthouse Addition & Renovation



Monongalia County Judicial Center
-Renovation of the Former Harley O. Staggers Federal Building

We have recently worked on projects with hyper-track scheduling demands and economically critical deadlines, we have worked for private developers as well as governmental agencies with elaborate communication and reporting requirements, and we cannot think of one client who had an open checkbook for design, construction, or operation.

Organization

Silling and our consulting teammates are fully committed to serving the project, with a clear understanding of the anticipated scope. Subsequently, we have identified key firm principals and project managers with experience and capabilities specifically geared toward management of this project.

Ability to Work as a Team Member

Throughout our submission, the notion of humility continues to be common concept. This is certainly an element of our corporate culture that make for effective team building – the willingness to understand the required roles of the team and step into the role that we are most qualified to play. However, we believe our greatest quality in this regard is a true and deep desire to serve – both our clients and our teammates – fueled by an insatiable drive for project success in every aspect of evaluation.

We recognize that this project can only be successfully developed if every member of the team is successful in their efforts. The internal staff at Silling Associates will attack each of our own tasks with passion and purpose, and we are confident that we will prove to be an invaluable asset to the WV Lottery Commission. Yet it is our willingness and cooperative spirit to aid and assist each of the project teammates, our consulting engineers, and the construction entities, to help in every detail to ensure that they are equipped to succeed.

Clarity of roles and responsibilities, clear communication, and team consensus building are foundational for effective teaming, and certainly every player bears the final accountability for their part. But it has been our mindset that, “it has to be right” and that we are all working cooperatively toward a shared goal. This project is too important to too many people to have shortcomings even in the finest detail. With a pinpoint focus on what load lies on our shoulders, we have been a firm that tends not to draw a hard and fast line around what we won’t do for the project. Rather, we travel to special consultants’ offices beyond what may have been expected - at our own cost – if we see that it can benefit our ability to more intimately understand some aspect of the project requirements. We spend additional time in collaboration and dialogue with contractors to assist in scheduling and sequencing issues if we see an opportunity for our clients to benefit. We’ll spend exhaustive time, and on a moment’s notice, when the owner, design architect, or contractor want to take one final look at an alternative solution, system, or material – so that the project might be that much better.

Construction Documents - Quality Assurance / Quality Control Plan

Ours is a proven method, evidenced by repeat client commissions, budget and schedule conforming design documentation, and a history devoid of claims. We understand that QA/QC is a task for the most experienced personnel and requires the devotion of time. This means that it is an expensive commitment, and one that we will not shirk. We recognize that Quality Assurance and Control is perhaps the most critical component of our task as the Architect of Record. We are proven and diligent communicators, document processes thoroughly, and are supremely confident that we will be effective administrators for the team.

Quality Assurance and Control is a regimented process at Silling Associates and our long and successful history, and more importantly, our extensive list of repeat clients speak to our success as a firm rooted in this task. We dedicate a firm principal to projects of this magnitude, separate from the Project Manager, to endeavor to control quality in both the design and document production phase – not only for our architectural product but for the coordinated work of our engineering consultants as well. Fundamentally, this requires time spent by the most experienced architects in the firm, not focused on the minutia of daily project management, to provide critical peer review and analytical critique of the work product. However, while most design firms would see this as an internal process directed only at the various design disciplines and documents, we believe we have been most successful when this concept is extended to include quality assurance and control aimed at our client’s goals and expectations.

Construction Document Phase

Contract Documentation through complete and unambiguous drawings and specifications is a calling card of Silling Associates, and we are regarded in the construction industry as producing the most clear and constructible design documents in our region. We see this as a non-negotiable given, and while we believe our staff is equally immersed

in producing meaningful and elegant architectural solutions, we know that our clients expect and require that their projects work, be delivered on time, and within the stated budgetary parameters. At Silling, thorough construction drawings and specifications are about getting it right.

We will utilize the latest technology platforms in the development of digital design files and carry this technology through the construction document phase, capitalizing on the efficiencies of this delivery tool. We have a time-tested and proprietary living library of details that evolve with the changing innovations of the construction industry and a constantly learning team of architects and engineers. We incorporate the most recognized and reliable format for written project specifications and build our manuals around contract documents developed by the American Institute of Architects and in alignment with the West Virginia State Supplemental Conditions amendments. As the vast majority of our work is publicly funded and competitively bid, we have an unrivalled familiarity with document and specification formats that are industry tested, coordinated, binding, and protective of our clients best interests.

Construction Administration

The Construction Administration Process is a phase of design services that Silling and our teammates understand and manage with the highest level of professionalism and effectiveness. Most importantly, we will be a cooperative presence on the site representing the owner and design team. While we will need to communicate with you more to understand the nature of staffing most appropriate for our project, we understand that our role will be to protect the owner and ensure that the design intent, both in concept and in detail, is realized. Again, we bring a spirit of cooperation and teaming to do all that we can to avoid construction conflicts and keep the project moving toward a successful implementation of the design concept while being supremely flexible as obstacles present themselves. On a project like this, there will be daily fires to be extinguished, yet the budget and schedule will be strict. Through constant and aggressive communication with construction entities, stakeholders, and design team members, we will be a firm but fair voice with the ultimate responsibility and goal of making the project work greatly.

Sean Simon, AIA joined Silling in 2008 as a Construction Period Service Manager, and works closely with the firm's design and production staff throughout the construction document phase and providing construction contract administration services. He is responsible for facilitating preconstruction 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 will be working directly with the design team leadership throughout the entirety of architectural services for a seamless and continuity of representation. Likewise, all key principals and design managers from Scheeser Buckley Mayfield Shelley Metz Baumann Hawk will be fully engaged in the construction period services, being managed by Sean and our firm's principals.

Sustainable Design

Our philosophy about sustainability is based on an understanding that the environments where our clients live, work, learn, and play have a tremendous impact on their health, safety and well-being. Likewise, our work has a direct impact on the ecology of the locations where we build, the air we breathe, and the resources we consume to build. Our commitment to sustainability is evidenced by a fully integrated process where optimal design results derive from a long term project goal perspective which best serves the Triple Bottom Line of people, planet and profit combined with practical, yet sophisticated, technological solutions resulting in High Performance Buildings.

The High Performance Buildings we design embody these core design objectives:

- Site design with minimal disturbance to the landscape
- Stormwater management with no off-site discharge
- Rainwater capture for use as grey water
- Water conservation throughout the building
- Energy-conserving mechanical and electrical systems
- Renewable energy utilization
- Environment friendly products
- Indoor air quality enhancement
- Minimize operations and maintenance resources



Project Approach

As the building industry has shifted toward sustainability, various metrics have emerged which allows architects and the public they serve to both quantitatively and qualitatively measure each project's sustainable features. Silling has experienced staff working with two independent organizations which meter sustainability: the USGBC's LEED rating system and the more rigorous International Living Future Institute's Living Building Challenge. Using either rating system identifies your project's sustainable achievements and acknowledges your organization's leadership and commitment to people, planet and profit.

RFQ No. LOT502

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Silling Associates

Authorized Signature: [Signature] Date: 2.27.2013

State of WV

County of Barawha, to-wit:

Taken, subscribed, and sworn to before me this 27 day of February, 2013.

My Commission expires January 22, 2023

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

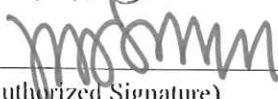
Purchasing Affidavit (Revised 07/01/2012)



CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Silling Associates
(Company)


(Authorized Signature)

Jody Driggs, Principal
(Representative Name, Title)

304.346.0565 304.346.1522
(Phone Number) (Fax Number)

February 27, 2013
(Date)



Silling Associates, Inc.
Architects + Planners
405 Capitol Street, Upper Atrium
Charleston, West Virginia 25301
p 1.304.346.0565
f 304.346.1522
web: www.silling.com

Number of Years in Business:
111 years

Firm Principals:
Thomas Potts, AIA
Jody Driggs, AIA

Total Employees:
20

Licensed Architects:
7

Graduate Architects:
3

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.



Awards & Recognition:

2004 Honor Award for Excellence in Architecture - Star USA Federal Credit Union

2006 Merit Award for Achievement in Architecture - James C. Wilson Union

2009 Honor Award for Excellence in Architecture - Chesapeake Energy Eastern Regional Headquarters

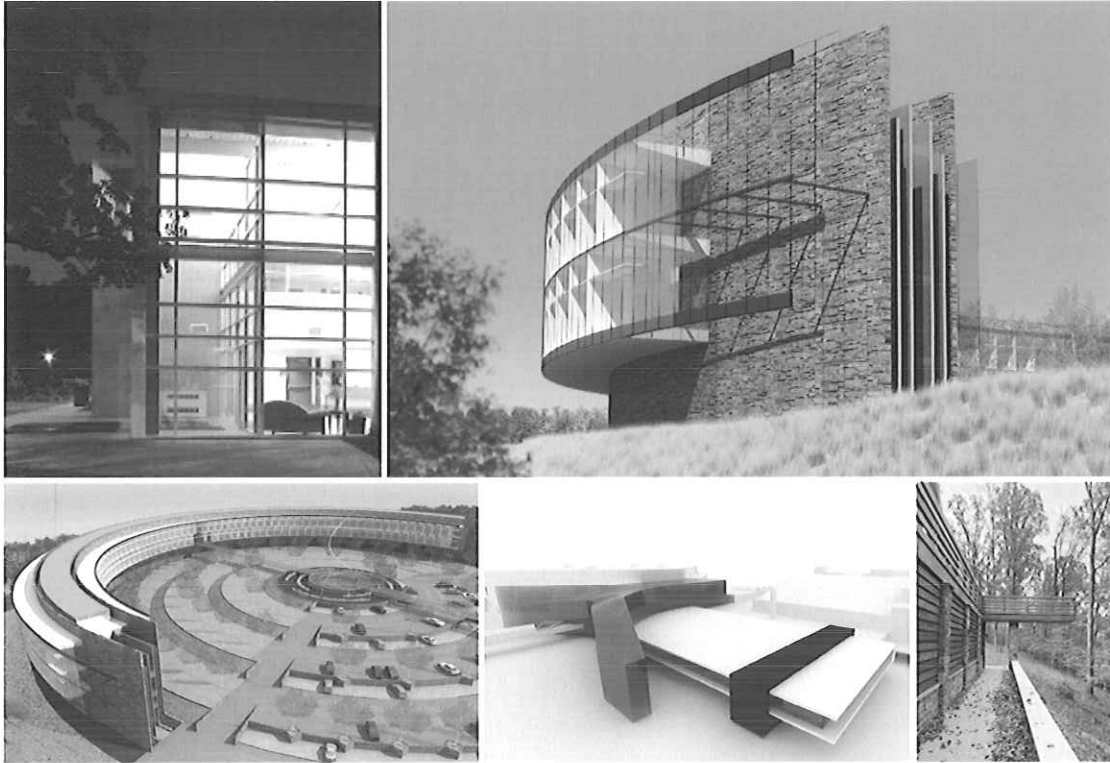
2010 Merit Award for Achievement in Architecture - Bible Center Church

2011 Honor Award for Excellence in Architecture - Haddad Riverfront Park & Schoenbaum Stage

2011 Merit Award for Sustainable Architecture - Private Residence

Silling Associates is a principal-led design practice, and the organizational structure of our firm is very much studio-oriented. The principals of our practice are actively engaged in all projects and routinely serve as daily project managers for all major design commissions. This structure ensures that first-hand project criteria, relayed directly from clients in programming and design review meetings, is directly applied to all work within the office; from conceptual design through construction detailing, specification writing, and construction observations services. Likewise, through this studio environment structure, all the talents and perspectives of the entire design and production staff at Silling are brought to each design task, allowing our firm to build multiple-person teams within the office to focus on a variety of projects simultaneously. Likewise, open sharing of project information, project status, and large picture scheduling of our workload allow architects, designers, and technicians to be informed on a number of current project needs and deadlines and cross-pollinate from job to job and task to task. This highly interactive and collaborative structure yield compelling design solutions, maintains client expectations throughout the process, and most importantly ensures quality through principal leadership.

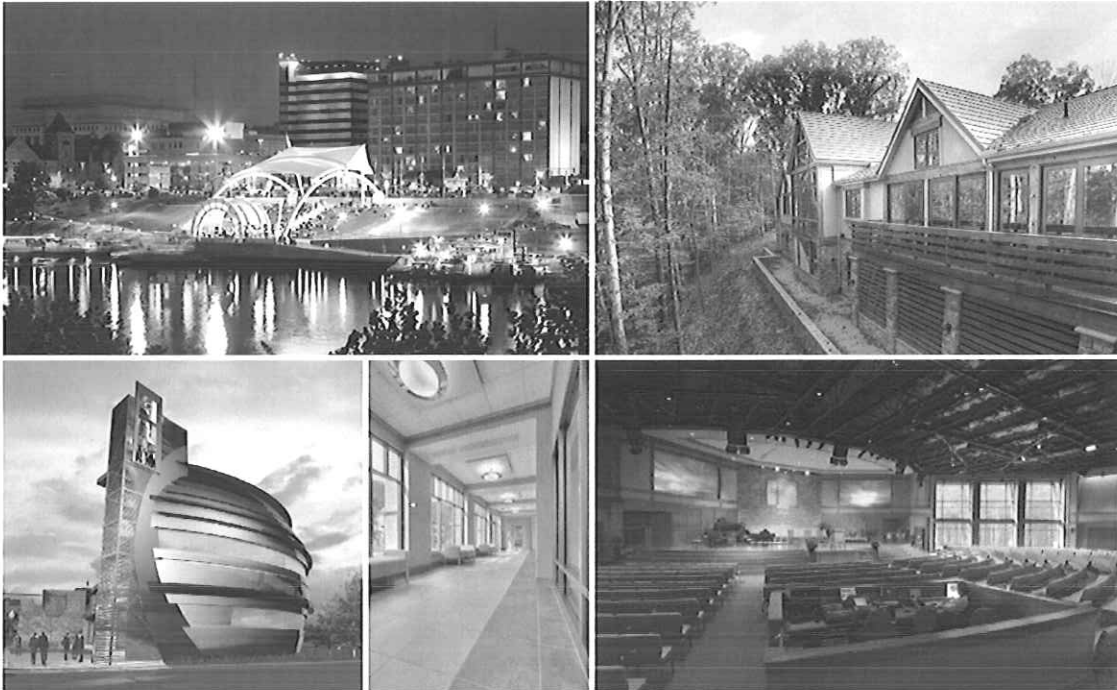
Our staff is comprised of seven licensed architects with a combined 134 years of professional experience in design and project management. Each of these individuals bring unique qualifications, certifications, licensures, and professional service credentials, as well as a powerful resume of collegiate honors, graduate degrees, and community involvement. Three of our architects, including both partners, have served as current or past presidents of the West Virginia Chapter of the American Institute of Architects.



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. At Silling we offer the following list of comprehensive architectural, planning, and interiors services:

- Feasibility Studies
- Master Planning
- Space Planning
- Architectural Programming
- Concept & Design Development
- Interior Design
- Furniture & Accessories Design
- Furniture & Accessories Specification
- LEED & Sustainable Design
- Construction Period Management
- Flexible Project Delivery

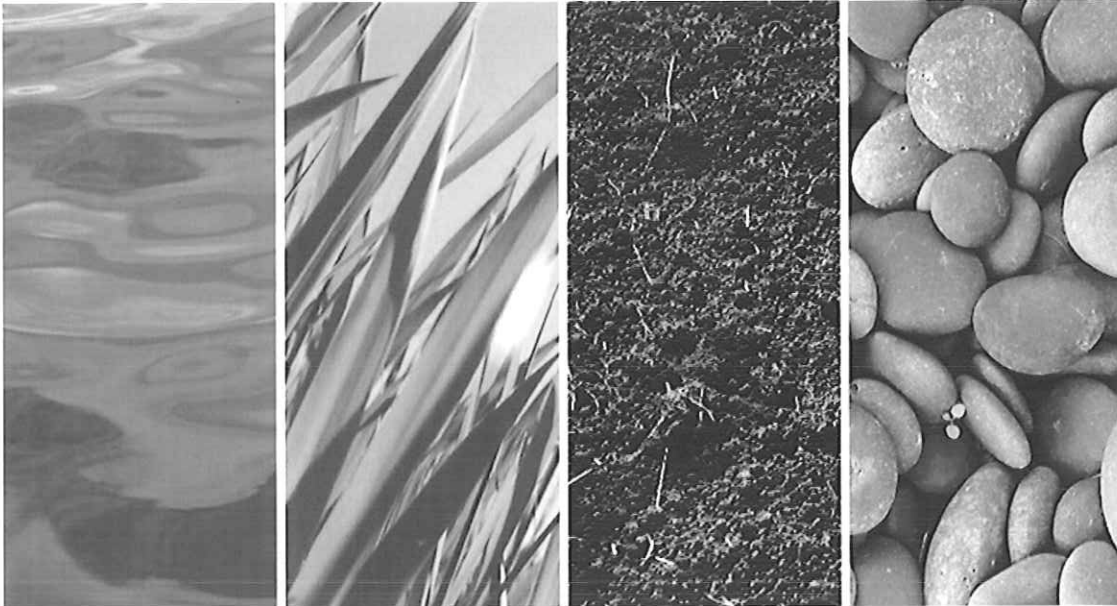
In addition, Silling routinely utilizes the services of some of the region's most qualified and talented engineering consultants, offering a proven history of project collaboration, seamless design integration, and excellent service to our clients.



As general practitioners of architectural design, Silling Associates has extensive recent and relevant, as well as historic, experience with virtually every building type imaginable. While we certainly have a core of project typologies that have evolved within our specific market demands, we have been highly successful through our flexibility and competencies to deliver excellent service for projects large and small, and in a broad range of uses. Recent projects include custom, sustainable design services for single family residences and residential additions, governmental projects ranging from small renovations to 100,000+ square foot new county facilities, new hotel and resort facility designs, state-of-the-art medical office centers, collegiate campus master plans, and new convocations centers and athletic arenas. In recent years, our firm alone has designed nearly 2 million square feet of building construction touching virtually every sector of building occupancy classification. At Silling, we are very proud of our diversity of design experience and our ability to create architecture that intimately speaks to our clients' missions, programs, budgets, schedules, sites, and their place in time.

Silling Associates offers a diverse range of planning and design leadership within the following core markets:

- **Architecture for Justice** - Courthouse, Judicial, Governmental Administration, Corrections, + Public Safety
- **Architecture for Learning** - Higher Education, Secondary Education, + Vocational Education
- **Architecture for Working** - Corporate, Governmental, Banking & Financial, Retail, & Hospitality
- **Architecture for Health & Wellness** - Hospitals, Medical Centers, + Medical Office Buildings
- **Architecture for Living** - Custom Residences, Loft Housing & Urban Living, + Condominiums
- **Architecture for Worship** - Worship Centers + Educational Centers
- **Architecture for Recreation** - Hotels & Resorts, Riverfront Development, + Athletic Recreation



Our philosophy about sustainability is based on an understanding that the environments where our clients live, work, learn, and play have a tremendous impact on their health, safety and well-being. Likewise, our work has a direct impact on the ecology of the locations where we build, the air we breathe, and the resources we consume to build. Our commitment to sustainability is evidenced by a fully integrated process where optimal design results derive from a long term project goal perspective which best serves the Triple Bottom Line of people, planet and profit combined with practical, yet sophisticated, technological solutions resulting in High Performance Buildings.

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Jody Driggs, AIA, NCARB

Principal

As a principal with Silling Associates with seventeen years' experience in the design practice, Jody has been a major force in the firm's creative direction. His energy, focus and talent for conceptualizing complex projects have contributed largely to the firm's reputation for design excellence. As a principal architect and designer, he is responsible for working closely with the owner to establish clear programmatic needs and design criteria, as well as to develop responsive designs 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 at West Virginia State University, Bible Center Church, and Chesapeake Energy's Eastern Regional Headquarters, as well as the Mardi Gras Casino Resort Hotel and Charleston Riverfront Park.

Professional Experience
17 years

Education

-Bachelor of Architecture
University of Tennessee, 1996

Licenses & Certifications

-WV, MD, PA, VA, KY, OH
-National Council of Architectural
Review Boards

Professional Affiliations

-President, American Institute of
Architects (AIA), WV Chapter,
2010-2011
-Past Vice President, AIA, WV
Chapter, 2008-2009
-AIA WV Scholarship Committee

Awards & Recognition

-2011 AIAWV Honor Award,
Haddad Riverfront Park
-2009 AIAWV Honor Award,
Chesapeake Energy Eastern
Regional Headquarters
-2010 AIAWV Merit Award,
Bible Center Church
-2007 "Young Guns" Recipient,
West Virginia Executive Magazine
-2006 "40 Under 40" Recipient,
The State Journal
-2005 AIAWV Merit Award,
James C. Wilson Student Union

Select Experience

Mardi Gras Casino Resort Hotel
Cross Lanes, WV

Bible Center Church
Charleston, WV

West Virginia Lottery Headquarters
Charleston, WV

Charleston Riverfront Park Pavillion &
Performance Stage
Charleston, WV

Student Recreation Center Study
Marshall University
Huntington, WV

Joan C. Edwards Fine Arts Building
Renovation, Marshall University
Huntington, WV

James C. Wilson Student Union
West Virginia State University
Institute, WV

Athletic, Convocation, & Academic Center
West Virginia State University
Institute, WV

Hamblin Hall Academic Science &
Research Center Study,
West Virginia State University
Institute, WV

Downtown Media Center Feasibility Study
West Virginia State University
Charleston, WV

University Campus Master Plan
West Virginia State University
Institute, WV

Marsh Hall & Library Renovations
Concord University
Princeton, WV

WVU Tech Student Center Renovations
West Virginia University Tech
Montgomery, WV

Chesapeake Energy Eastern Regional
Headquarters
Charleston, WV

Huntington Pediatric Dentistry
Huntington, WV

Kanawha Valley Heart Specialists Medical Of-
fice Center
South Charleston, WV

St. Timothy Lutheran Church
Charleston, WV

Building 4
State Capitol Complex
Charleston, WV



Thomas M. Potts, AIA

Principal

Tom is president of Silling Associates. An eighteen-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.

Tom’s body of work includes architecture for local, state, and federal government entities, educational institutions, healthcare providers, corporate and professional organizations, and residential clients. 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 design experience, Tom has led the firm’s efforts in making Silling a regional leader in the field of justice architecture.

Professional Experience
23 years

Education

-Bachelor of Architecture with High Honors
University of Tennessee, 1990

Licenses & Certifications

-WV, VA

Professional Affiliations

-Past President, American Institute of Architects (AIA), WV Chapter, 2006-2007
-Past Vice President, AIA, WV Chapter, 2004-2005
-AIAWV Executive Committee Member
-Academy for Justice Architecture, American Institute of Architects

Awards & Recognition

-2004 AIAWV Honor Award,
Star USA Federal Credit Union

Select Experience

Morgan County Courthouse
Berkeley Springs, WV

Raleigh County Judicial Center
Beckley, WV

Hampshire County Judicial Center
Romney, WV

Greenbrier County Courthouse
Lewisburg, WV

Lewis County Judicial Center
Weston, WV

Allegheny County District Court
Cumberland, MD

Medina County Courthouse
Expansion
Medina, OH

Franklin County Courthouse
Chambersburg, PA

Mineral County Justice Center
Keyser, WV

Monongalia County Justice Center
Morgantown, WV

Mount Olive Correctional Complex
Mount Olive, WV

Huttonsville Correctional Center
Huttonsville, WV

Stevens Correctional Facility
Welch, WV

St. Marys Correctional Center
St. Marys, WV

Parkersburg Work Release Center
Parkersburg, WV

Martinsburg Correctional Center
Martinsburg, WV

Visual Arts Center
Marshall University

Student Recreation Center Study
Marshall University

Athletic, Convocation, & Academic Center
West Virginia State University

WV School of Osteopathic Medicine
Lewisburg, WV

Cabell County Courthouse, Circuit
Courtroom Renovation Study
Huntington, WV

Huntington VA Federal Credit Union
Huntington, WV

Mineral County 911 Center
Keyser, WV

Star USA Federal Credit Union
St. Albans, WV

WV Statewide Courthouse Assessment
WV Courthouse Facilities Improvement
Authority



Carmen Wong, AIA, LEED AP, BD +C

Project Architect

Carmen Wong graduated first in her class from the Ricardo Palma University in Lima, Peru. In May of 2007, Wong received her Masters of Architecture from the University of Illinois at Urbana-Campaign.

Her educational honors include being selected to participate in the honored Design Studio directed by Dr. Ken Yeang, an internationally renowned Malaysian-British architect specializing in sustainable green architecture, bioclimatic skyscrapers, and ecologically responsive design; the Earl Prize in Design and Graduate Student Design Award; and the Coriwasi Award given to the top student in the 5-year undergraduate program.

In addition to her dynamic design talents and LEED-accredited credentials, Wong utilizes a variety of three-dimensional computer modeling programs and rendering techniques, providing Silling's clients the ability to "see" and better visualize their proposed building throughout the entire design process.

Professional Experience
6 years

Education

Bachelor of Architecture
Ricardo Palma University
(Lima, Peru) 2001

Master of Architecture
University of Illinois Urbana-
Campaign 2007

Licenses & Certifications
-WV, Peru

Professional Affiliations
-American Institute of Architects –
West Virginia Chapter (AIAWV)
-Director, AIA, WV
Chapter, 2014

Awards & Recognition
- 2011 AIA WV Honor Award for
Excellence in Architecture,
Haddad Riverfront Park
- Earl Prize in Design & Graduate
Student Design Award (2005) –
University of Illinois Urbana-
Campaign
- Coriwasi Award, Top Student in 5
Year Program – Ricardo Palma
University (2001)

Select Experience

West Virginia Lottery Headquarters
Charleston, WV

Chesapeake Energy Eastern
Regional Headquarters
Charleston, WV

Haddad Riverfront Park Stage,
Amphitheatre, & Canopy
Charleston, WV

WV Supreme Court of Appeals
East Wing of the State Capitol Complex

Mardi Gras Casino Resort Hotel
Cross Lanes, WV

Mardi Gras Casino Resort Convention
& Conference Center
Cross Lanes, WV

Charleston Civic Center Expansion &
Modernization Study
Charleston, WV

West Virginia State University
Downtown Media Center
Charleston, WV

Hamblin Hall Anex
West Virginia State University
Institute, WV

Concord University
Entrance Modernization
Athens, WV

Huntington Pediatric Dentistry
Huntington, WV

Kanawha Valley Heart Specialists
South Charleston, WV

Pulmonary Associates
South Charleston, WV

Raleigh County Judicial Center
Beckley, WV

Jefferson County Judicial Center
Charles Town, WV

Morgan County Courthouse
Berkeley Springs, WV

Hampshire County Judicial Center
Romney, WV

Hardy County Courthouse
Moorefield, WV

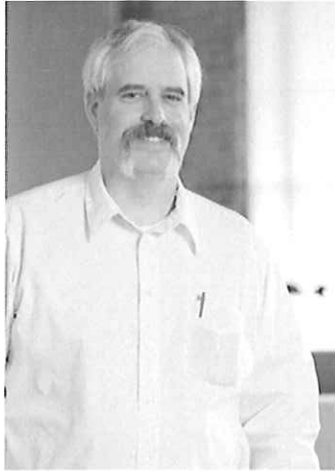
Monongalia County Justice Center
Morgantown, WV

WVDOC Work Release Center
Charleston, WV

Bible Center Church
Charleston, WV

Putnam County Animal Shelter
Winfield, WV

Moses Private Residence
Barboursville, WV



Sean Simon, AIA
Construction Period Service Manager

Sean has twenty-one years' experience involving all phases of architectural programming, design, construction document production, and construction contract administration. 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 preconstruction 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.

Professional Experience
21 years

Education
-Bachelor of Architecture
University of Tennessee, 1992

Licenses & Certifications
-WV, MD, PA, OH, VA

Professional Affiliations
-American Institute of Architects (AIA), WV Chapter

Select Experience

Joan C. Edwards Fine Arts Building
Renovation, Marshall University

Athletic, Convocation, & Academic Center
West Virginia State University

Multiple Boiler & Chiller Replacements
West Virginia State University

Marsh Hall, Fine Arts Building, & Library
Renovations, Concord University

Chesapeake Energy Regional Field
Operations Facilities, PA & WV,OH

Morgan County Courthouse
Berkeley Springs, WV

Hampshire County Judicial Center &
Courthouse Facilities Renovations
Romney, WV

Raleigh County Judicial Center
Beckley, WV

Mardi Gras Casino Resort Hotel
Cross Lanes, WV

Putnam County Courthouse Renovations
Winfield, WV

Sullivan Hall Elevator Replacement
West Virginia State University

Huttonsville Correctional Work Camp
Huttonsville, WV

Anthony Correctional Center - Multiple Projects
White Sulphur Springs, WV

Kanawha Valley Heart Specialists
South Charleston, WV

Huntington Pediatric Dentistry
Huntington, WV

West Virginia Lottery Headquarters
City Center West Renovation
Charleston, WV

Parkersburg Work Release Center
Parkersburg, WV

Putnam County Animal Shelter
Winfield, WV

Fleming Hall
West Virginia State University

Charleston Work Release Center
Charleston, WV



Fred Pack, Associate AIA
Construction Administrator

Fred Pack joined Silling in February of 2012 serving as a Construction Administrator. In addition to having over 30 years' experience in the construction industry, Fred has served as a Project Superintendent over the last seventeen years. His responsibilities included a full range of construction supervision duties including coordination and scheduling of trade contractors, material suppliers and construction team employees, liaison for project owners and architects/engineers over the duration of projects, quality assurance, cost management, and safety program maintenance. Specific projects under his supervision included the West Virginia Lottery Headquarters, St. Mary's Medical Center, Kings Daughter Medical Center, Guyan Golf and Country Club, and various K-12 schools throughout Ohio, just to name a few.

Professional Experience
30 years

Professional Affiliations
-American Institute of Architects
(AIA), WV Chapter

Select Experience

United States Air Force *
Carswell Airforce Base, TX

Plant Alvin W. Vogtle Nuclear Power *
Generating Plant
Waynesboro, GA

Gallipolis Lock Replacement *
Gallipolis Ferry, WV

Winfield Lock Replacement *
Winfield, WV

St. Marys Medical Center *
Huntington, WV

Cabell Hunting Hospital *
Huntington, WV

Kings Daughters Hospital *
Ashland, KY

Guyan Golf & Country Club *
Huntington, WV

Multiple Big Bear Food Renovations *

Multiple Elder-Beerman Dept. Store
Renovations *

Chesapeake Union Exempted School District *
Chesapeake, OH

Waverly City Schools *
Waverly, OH

Portsmouth City Schools *
Portsmouth, OH

Ironton City Schools *
Ironton, OH

Dawson-Bryant Local School District *
Coal Grove, OH

Gallipolis City Schools *
Gallipolis, OH

WV Lottery Headquarters
Charleston, WV

Lewis County Judicial Center
Weston, WV

Putnam County Animal Shelter
Winfield, WV

Anthony Correctional Center
White Sulphur Springs, WV

Chesapeake Energy Regional Field
Operations Facilities
PA, WV, OH

WVSU Boiler, Chiller, & Roof Replacements
Institute, WV

Concord University Library & Fine Arts
Renovations
Athens, WV

* Denotes experience from
previous employment.



Kim Ellis, Associate AIA

Interior Designer

Kim Ellis joined Silling Associates in 2008 and brings a diverse experience within both the architectural and interior design industries. Upon completing her Interior Design Internship at the award-winning Dorothy Draper and Company in New York, Kim has enjoyed thirteen years working within the architectural community.

She has provided extensive interior design, architectural production and coordination, construction administration, and architectural team training services. A few of her most notable and recent interiors work at Silling includes the Mardi Gras Casino Resort Hotel, East Wing renovations at the State Capitol Complex for the Supreme Court of Appeals, Morgan County Courthouse, Huntington Pediatric Dentistry, Moses Residence, and Raleigh County Judicial Center. In addition, Kim's previous professional experience includes code research for various restaurant, retail, petroleum, educational, and business projects in many jurisdictions across the United States, as well as local building, electrical, plumbing, mechanical, fire, and ADA accessibility guidelines.

Professional Experience
16 years

Education
-Bachelor of Interior Design
Carney Varney Department of Art & Design
University of Charleston, 1997

Previous Experience
-Dorothy Draper and Company - New York NY (1996)
-Shremshock Architects - Columbus, OH (1997-1999)
-WD Partners - Columbus, OH (1999-2004)
-ZMM, Inc.- Charleston, WV (2004-2008)

Professional Affiliations
-American Institute of Architects (AIA),
WV Chapter

Awards & Recognition
-2010AIAWW Merit Award for Sustainability, Moses Residence
-AIA Honor Award, Hacker Valley Pre-K - 8 School

Select Experience

WV Supreme Court of Appeals
Charleston, WV

Mardi Gras Casino Resort Hotel
Cross Lanes, WV

Moses Residence
Barboursville, WV

Allegheny County District Court
Cumberland, MD

Morgan County Courthouse
Berkeley Springs, WV

Raleigh County Judicial Center
Beckley, WV

West Virginia Lottery Headquarters
Charleston, WV

Huntington Pediatric Dentistry
Huntington, WV

Lewis County Judicial Center
Weston, WV

Hacker Valley Pre-K – 8 School
Webster County, WV

New River Elementary
Fayette County, WV

Mountaineer Middle School
Harrison County, WV

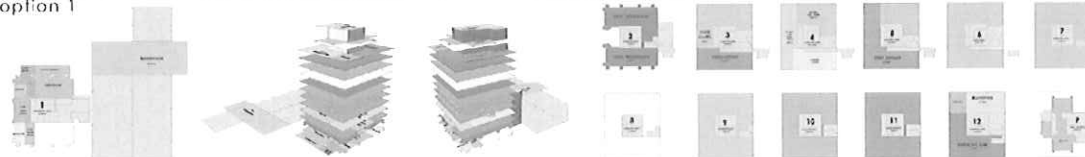
Southside Elementary
Cabell County, WV

Huntington Middle School
Cabell County, WV

The Boulevard at 2412
Charleston, WV



option 1



Project Size: 146,000 gsf

Project Type: Renovations

Project Status: Fall 2011 Completion

Contact: John Myers, Assistant Director,
WV Lottery, 304.558.0500

In 2010, the State of West Virginia purchased an existing 13-story, 146,000 SF office building located along the Elk River in downtown Charleston to serve as Headquarters for the West Virginia Lottery Commission, as well as provide a home for the State's Racing Commission, Real Estate Division, Alcohol Beverage Control Commission, Banking Division, and Municipal Bonds Division. The project includes comprehensive architectural, structural, mechanical, electrical, and fire protection renovations throughout the building, and also includes modernization of the building's three passenger elevators and one freight elevator. Interior space modifications were specifically designed to accommodate the WV Lottery and other state agencies while IBC, NFPA, and ADA Code compliance issues were addressed throughout the building.



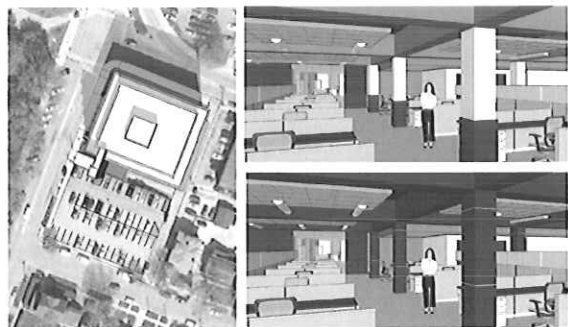
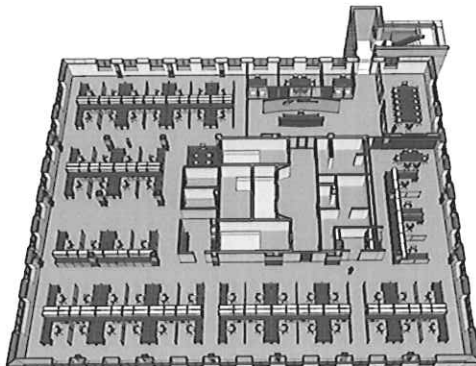
Project Size: 88,000 gsf

Project Type: Government Office Space

Project Status: Spatial & Building System Analysis and Phase One Design underway

Contacts: Mr. Bob Krause, RA, PE, General Services Division, 304.558.9018

The project includes a comprehensive analysis of building space and systems relative to all Code requirements, building performance, and functionality. The project will be developed through a series of phases responsive to critical needs and budgetary constraints. Initial scope items include infrastructure upgrades of egress components, mechanical, electrical, plumbing, and fire protection systems, elevator modernization, and accessibility and interior improvements to lobbies, toilets, and circulation components. Immediate renovations of interior office space are targeted for one or more floors of the facility, with future projects renovating remaining floors.





Project Size: Various

Project Type: Renovations/Restorations

Project Status: Completed in 2010-2012;
Ongoing in 2012

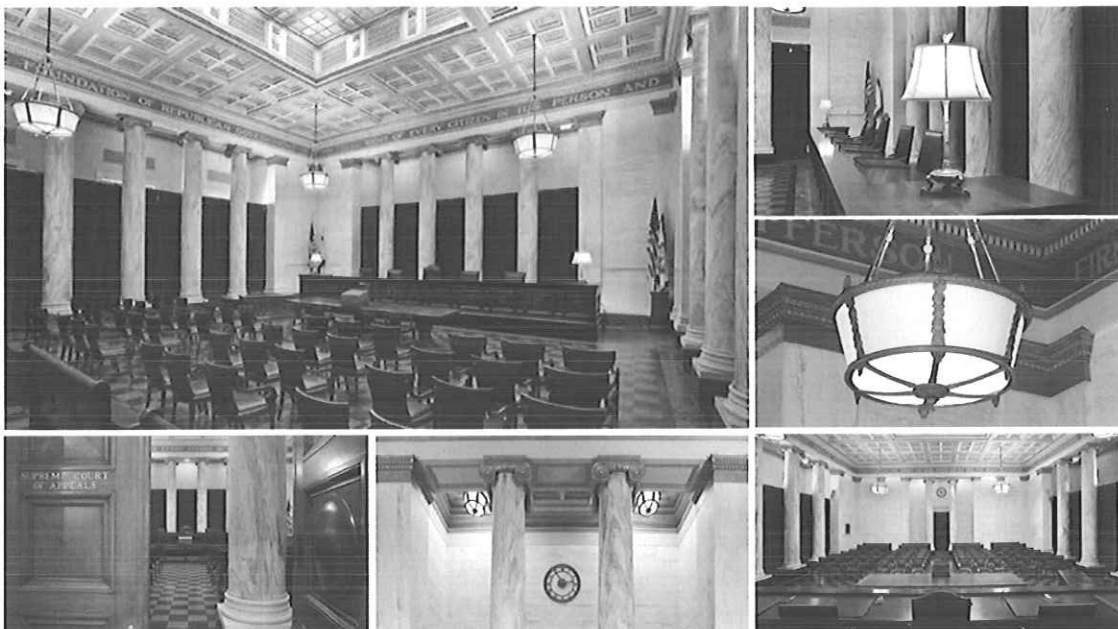
Contact: Steve Canterbury,
Administrative Director, 304.558.0145

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. A summary of the various improvement projects are as follows:

Court Attorney's Offices: Room E-400 consists of 6,500 square foot of existing office space that had several room alterations and the addition of various modular office systems and styles over past decades. There were several oversized offices shared by attorney where greater confidentiality and privacy was desired. The overall space was characterized as having poor aesthetics and natural and artificial lighting, space use inefficiencies, lack of acoustic separation, inadequate heating and cooling and ventilation, substandard power and data infrastructure.

A full renovation of the space including removal of walls, ceilings, finishes and mechanical and electrical systems was required. Furniture and ceiling tiles were removed for re-use and recycling. The new program required both individual acoustically separated attorney offices and flexible offices that could include both shared and single users with the ability to adapt to changing needs. Natural daylight was required to reach interior areas of the spaces. A common break area, copy area, reception desk, and private restroom for the Chief Council were included in the program. The design approach was to locate right-sized individual attorney offices along the rhythm of the exterior windows, equipping the corridor side walls with glazed door, sidelight and clerestory windows to maximize daylighting to the interior spaces. Interior offices are office system type partitions with glazing and natural wood panels, bringing color, warmth and light to the interior of the space.

Courtroom Renovation – The project included restoring the floor to its original appearance (a similar restoration was previously completed in the adjacent Judges Conference Room); Removal of carpet in the public areas of the courtroom; Replacing damaged original cork flooring with new to closely match checkerboard pattern and color per plans; Cleaning and repairing the original marble flooring in public areas of the courtroom; Cleaning the stone base at columns walls and bench; Removal and cleaning of the curtains on three sides of the courtroom; Repairing water damages at cornice from upper right hand side (facing entry) to above the word “US” near the center of the cornice; Plaster spot-repaired and painted to match original colors chips on file in the Clerk’s office; Surface restoration of the Judge’s bench; Wood medallions which were miss-installed during a previous renovation were re-installed with grain to run horizontally; Surface restoration of the Clerk’s desk, base and top; and Upgrade electrical at the Clerk’s desk.



Justice’s Chambers Conference Room and Kitchenette - The Justice’s Conference Room connects the Justices’ Chambers to the Courtroom. It is a place where the Justice’s meet with one another to review Court business, communicate with State Judges from the 55 counties, and with attorneys litigating cases before the court. It is a 532 square foot room that has been renovated on several occasions. The project program included restoring the room to its original appearance while modernizing the video conferencing, data and teleconferencing capabilities, design of a new conference table, and converting an adjacent unused restroom into a kitchenette. Historic research included uncovering original drawings and specifications, photographs and removing layers of existing materials to reveal the characteristics of original materials. A marble border with cork infill was discovered below the carpet and new cork was sought to match the original as closely as possible, while the marble was refinished.

A table with historical significance (West Virginia’s first state constitution was signed on the table) was refurbished and a new conference table was designed mimicking details used in other areas of the Courtroom while wiring the table for telephone, computer/internet and video conferencing. New window coverings were designed and furniture selected to compliment the historic theme of the room. The room has been painted with a color palette using original Courtroom colors.

Justice and Assistant Offices - Each Justice has a private suite of approximately 800 square feet including an office for the Justice, their administrative assistant and a restroom. Scope of work varied from suite to suite, and included new flooring, wall finishes, casework, paneling, furniture, wall covering, window treatment, electrical, data and HVAC upgrades.

Chamber Hallway - The existing Hallway connects each of the Justices' suites with the Conference Room and public Courtroom Lobby. The program included replacing the HVAC equipment, cleaning out unused wiring in the ceiling plenum, new lighting, the design of a new raised ceiling, removal of the carpet, cleaning of the marble wainscot and restoration of the original terrazzo floor.

Courtroom Lobby including renovated Men's and Women's Room - Scope of work included painting the walls and ceiling of the Courtroom Lobby and cleaning of the marble wainscot. The restrooms were renovated with restoration of the original tile flooring and Vitrolite paneling and partitions, ADA accessibility improvements, design of a women's comfort lounge, make-up and changing station.

Law Library Offices - Scope of work included creation of a new conference room with A/V conferencing capabilities. Office renovations include new carpeting, paint and furniture.

Clerk's Office Renovation - Room E-317 consists of 6,500 square foot of existing office space that had several room alterations and the addition of various modular office systems and styles over past decades. The overall space was characterized as having outmoded filing systems, poor aesthetics and natural and artificial lighting, space use inefficiencies, lack of acoustic separation, inadequate heating and cooling and ventilation, substandard power and data infrastructure. A full renovation of the space including removal of walls, ceilings, finishes and mechanical and electrical systems was required. The new program required both individual acoustically separated Clerk's offices and flexible offices that include both shared and multiple users with the ability to adapt to changing needs. Natural daylight is required to reach interior areas of the spaces. A common break area, copy area, and public reception and document viewing areas are included in the program.



Project Size: 55,000 gsf

Project Type: Interior Renovations

Project Status: Completed in 2001, 2005, 2010, 2011

Contact: Kandy Nicoloudakis (Firm Administrator) or Jeff Davies (Facilities Manager) 304.340.3800

Silling has provided space planning and architectural design services for various renovation projects to the existing Spilman Center. An earlier phase involved the demolition of existing and “fit-up” design of new office space totaling 28,000 sf. A second phase of development was concluded in 2001 with the inclusion of a 6,500 SF component into the operation. In 2005, Silling designed major renovations to the existing FLT Boardroom, creating a new state-of-the-art audio/video conference space with flexible and powerful presentation and conferencing tools to support a diverse range of meetings, training sessions, and social events. The conference room includes a large video projection screen, a 61” flat panel plasma screen, an integrated speaker and microphone system, an acoustically designed wall panel system, lighting options engineered for various video presentations, a double exterior window wall to decrease the noise of the adjacent Kanawha Boulevard, and a comprehensive audio-visual control system providing user control of the system as well as the room environment, such as window shades and lighting. In 2009, Silling completed renovations to the public lobby/reception space, as well as the conversion of the former law library into accounting offices. Our firm’s 2011 work includes renovations to the 2nd and 4th floors which includes the conversion of open office space to private attorney offices, the new HDB Conference Room, interior finishes renovations, and lighting fixture upgrades.



Project Size: 21,556 gsf

Project Type: Medical Office Building

Project Status: Completed December 2012

Contact: Ken Cooper, Pray Construction Company, 304.755.4944

This new 21,556 square foot, two-story medical office building is a design/build project delivered in partnership with Pray Construction Company for a group of pulmonologists in South Charleston, WV. Designed in a language contextually appropriate to the neighboring Thomas Memorial Hospital and other private medical office buildings in the area to relay a cohesive campus sense, the building exterior also includes softer, more natural touches reflective of the owner's approach to professional care. Field stone veneer and an engaging, cantilevered canopy cover define the building entry, and similar materials are carried into the building common spaces. The ground floor will house a sleep lab, imaging center, physical therapy suite, and administrative space. The upper floor will house the professional office and examination rooms, procedural testing spaces, doctors' and nurses' offices and work space, and generous patient waiting areas. Parking is developed both immediately on-site, as well as on adjacent parcels along the Kanawha River.



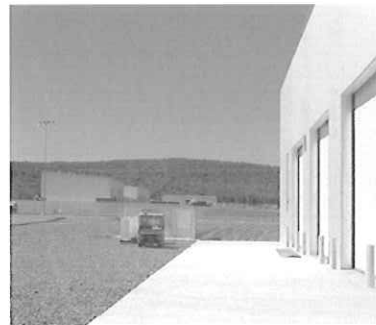
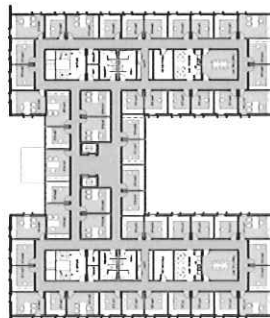
Project Size: Combined 258,515 gsf

Project Type: New Construction

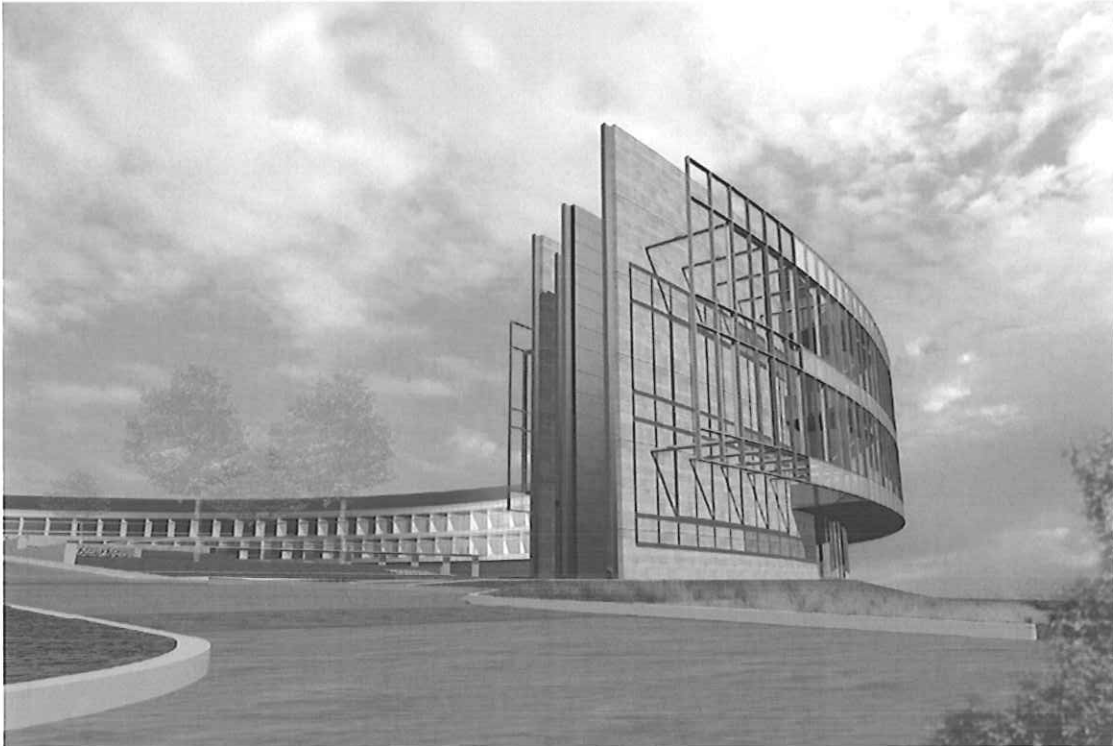
Project Status: Completion in 2013

Contact: Dan LeDonne, Chesapeake Energy, 405.879.9251

The entire operation center campus, currently under construction in Athens Township (Pennsylvania), is in support of the regional gas drilling operations for an industry-leading gas exploration and extraction company. The current 5-Phase project includes eleven buildings planned totaling over 258,000 gross square feet of office and shop buildings for 500+ employees. Each Phase represents the operations of company subsidiaries including drill rigging, trucking, piping, engineering, managers and accountants. The last phase is due to be complete in April 2013.



AIA WV Honor Award for Excellence in Architecture



Project Size: 122,000 gsf

Project Type: New Construction

Project Status: Construction Documents Complete

Contact: Dan LeDonne, Chesapeake Energy, 405.879.9251

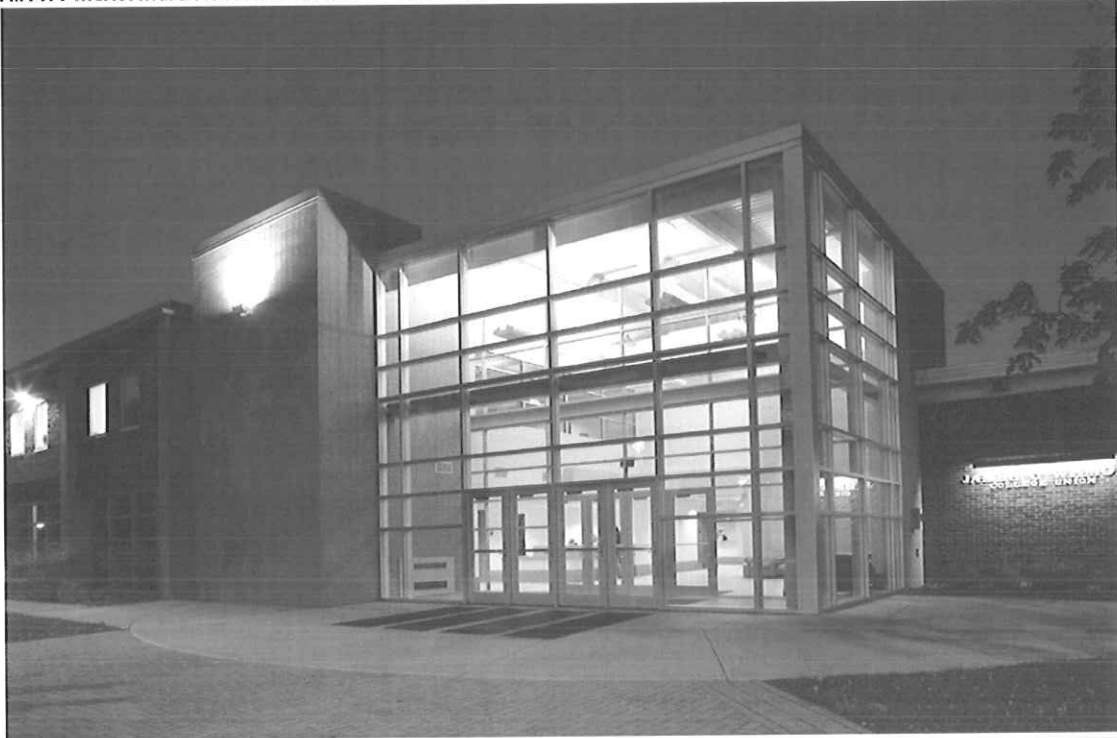
Awards: 2009 AIA WV Honor Award for Excellence in Architecture

Sustainability: Designed for LEED Gold

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.

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 suite 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 \$39 million 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

AIA WV Merit Award for Achievement in Architecture



Project Size: 46,000 gsf

Project Type: Additions & Renovations

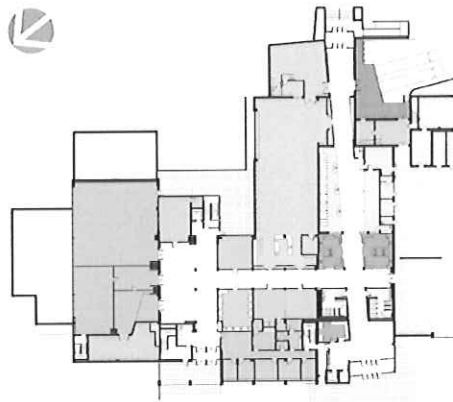
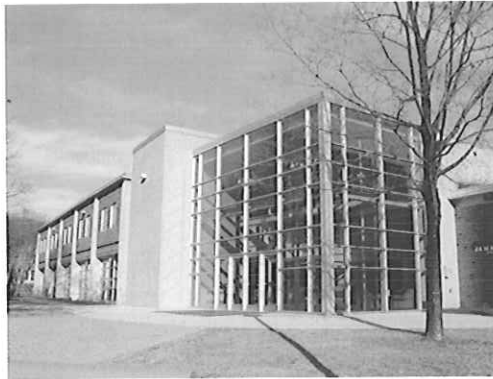
Project Status: Completed in 2005

Contact: Bryce Casto, VP of Student Affairs, West Virginia State University, 304.766.3000

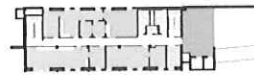
Awards: 2006 AIA WV Merit Award for Achievement in Architecture

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.



MAIN FLOOR LEVEL

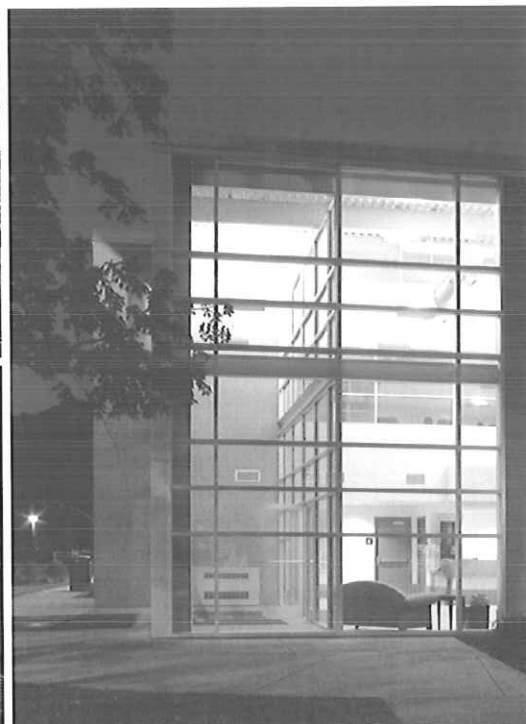


UPPER FLOOR LEVEL



LOWER FLOOR LEVEL

- BOOKSTORE & RETAIL
- CLASSROOMS / COMPUTER LABS
- STUDENT CAFE / DINING
- STUDENT SERVICES
- CYBER CAFE
- INFORMATION DESK
- RESTROOMS / LOCKER
- FITNESS / WEIGHT ROOM
- STUDENT GAME ROOM
- HEALTH & WELLNESS CLINIC
- STUDENT GOVERNMENT
- UPPER STUDENT LOUNGE
- LOADING DOCK
- MULTI-PURPOSE ROOM & LARGE ASSEMBLY





Project Size: 70,000

Project Type: New Construction

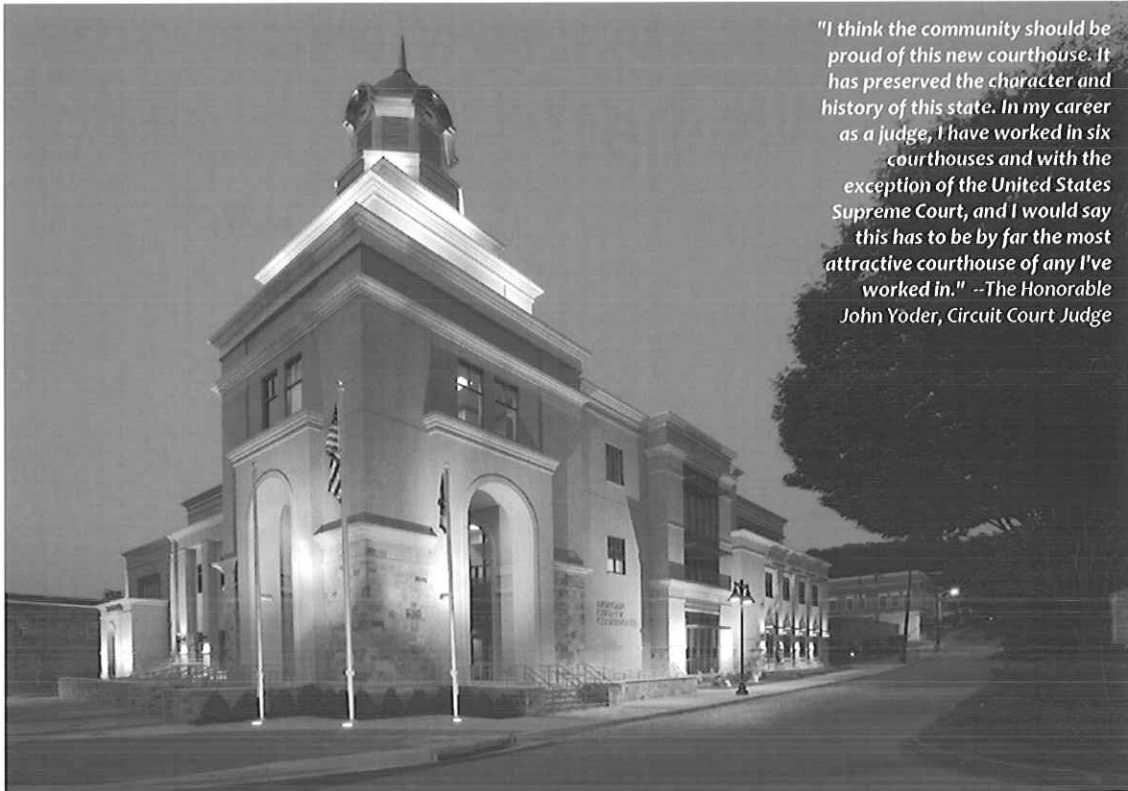
Project Status: Completed in April 2012

Contacts: Pat Reed, County
Commissioner, 304.255.9146

The new Raleigh County Judicial Center is located on a tight urban infill sight at the main intersection in the center of uptown Beckley, West Virginia. The intersection marks the convergence of the historic Raleigh County Courthouse, the Robert C. Byrd Federal Courthouse, and the new Raleigh County Judicial Building.

The new 70,000 square foot judicial center features three state-of-the-art circuit courtrooms, a future fourth circuit courtroom, two magistrate courtrooms, a third future magistrate 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, with related service, administrative, and records storage space.





"I think the community should be proud of this new courthouse. It has preserved the character and history of this state. In my career as a judge, I have worked in six courthouses and with the exception of the United States Supreme Court, and I would say this has to be by far the most attractive courthouse of any I've worked in." --The Honorable John Yoder, Circuit Court Judge

Project Size: 47,000 gsf

Project Type: New Construction

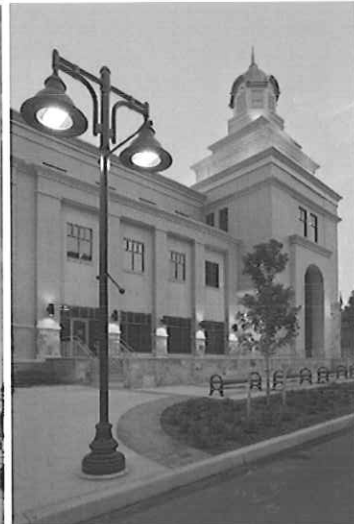
Project Status: Completed in 2010

Contact: Brenda Hutchinson, Morgan County Commission, p 304.258.8540

On August 8, 2006, fire destroyed the Morgan County Courthouse located diagonally across the main intersection from the state park. Constructed in 1924, it was the second courthouse located at the site and what would be considered as the most prominent public property in the community. It was a relatively simple, neo-classical, two story, and yellow brick building that featured a clock-tower cupola above the classical cut-stone arch entry. The entry was oriented directly to Fairfax Street and a public green space/boulevard that was at one time the main road leading east toward Virginia.

After the fire, and despite an occasional public murmur suggesting the remains be leveled and the property be used as parking, the County leadership was immediately focused on rebuilding on the Courthouse site. A clear mandate from the community was to develop a design that was reminiscent of the old courthouse and add to the architectural character and the tourism spirit of Berkeley Springs. If the original building could not be replaced, the new courthouse should capture the historic memory of the old building and, to some degree, its details. Additionally, the 1924 building had numerous non-beholding additions that took from the essence of the original. A new building was an opportunity to incorporate the added area under a single roof and create a new courthouse complex.

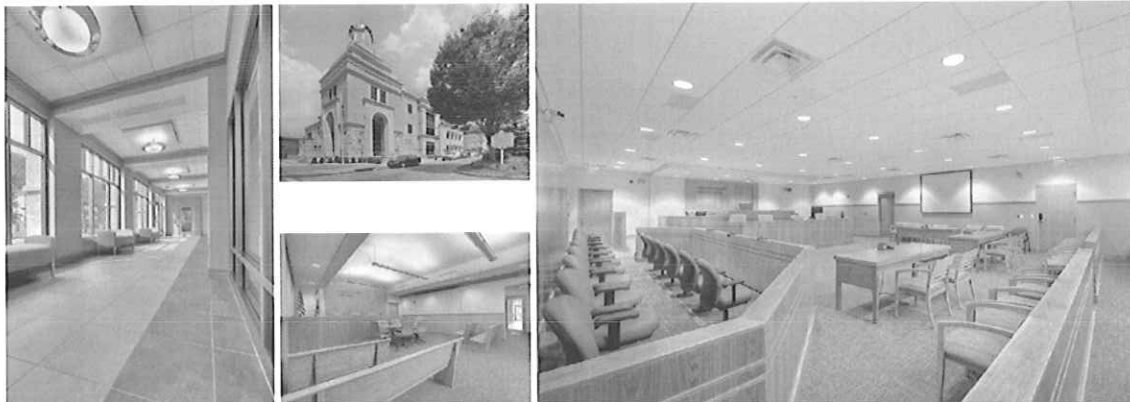
The new courthouse has a dominant corner entry element that anchors the building composition and addresses both Fairfax and Washington Streets responding to the current urban circulation patterns, by contrast to the single entry from Fairfax Street of 1924. The entry element features two grand retro-classical stone arches, reminiscent of the historic building entry, yet enlarged to the scale of the two-story volume of the entry plaza. The corner element features a lighted clock-tower that recalls the 1924 cupola. The new entry responds to the presence of the state park and the central business district located along the Fairfax Street edge and the shops located across Washington Street. Additionally, the building is pulled back from the common line of the adjacent buildings located on Washington Street to create a hardscape public plaza and an ADA ramp/building signage element.



The building materials include a stone base to tie the building to the context and yellow brick respectful both to the old courthouse and neighboring buildings. It is primarily a three-story building with larger floor-to-floor heights than the neighboring buildings. To minimize the overall scale at the street level, the Washington and Fairfax Street elevations are two-story components. Metal fascia and banding is an abstract of the classical dental mold of the old courthouse and creates scale. A one-story mass with an arched window marks the location of the County Commission adjacent to the public plaza. The scale of the ground level windows is intended to relate to the shops.

The building program includes a mix of county administrative offices on the first floor and county judicial functions including Circuit Court, Family Court and Magistrate Court on the second and third floors. To maximize the availability of natural light, offices are generally aligned to the exterior while courtrooms and records rooms are oriented to the core. Where offices are located to the core burrowed light is used to provide all offices a view to the exterior. The design includes best practice principles of public screening at the access point to vertical circulation, and clear separation of public, staff and in-custody litigants. The technical systems include state-of-art access control, courtroom digital switching and evidence presentation technology.

A highly sustainable geothermal HVAC system was designed utilizing the water from the existing Warm Springs Run (creek) through a heat exchanger integrated into the building's water source heat pump. For most of the year the water in the Run will allow the boilers and fluid coolers to stay offline, providing significant energy savings. Other notable sustainable features include a white EPDM roof, photovoltaic domestic water heating and window sun screens.





Project Size: 80,000 gsf

Project Type: Interior Renovations

Project Status: Programming Phase

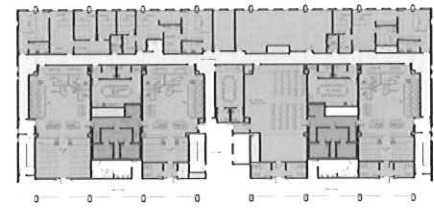
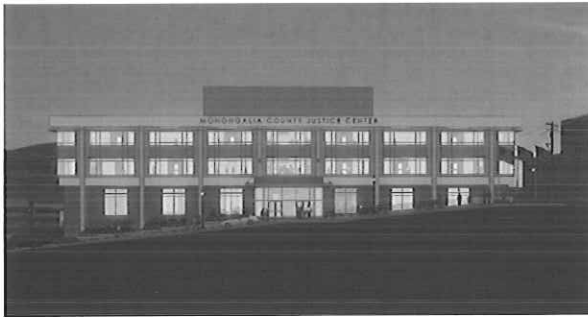
Contacts: Diane Demedici, County Administrator, Monongalia County Commission, 304.291.7281

In March of 2012, the Monongalia County Commission selected Silling Associates to serve as the Designer and Architect of Record for the renovation of the former Harley O. Staggers Federal Building, located on High Street in downtown Morgantown.

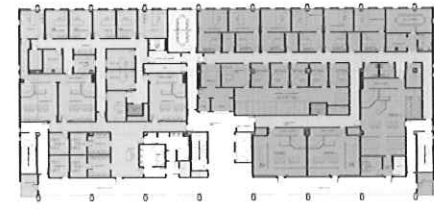
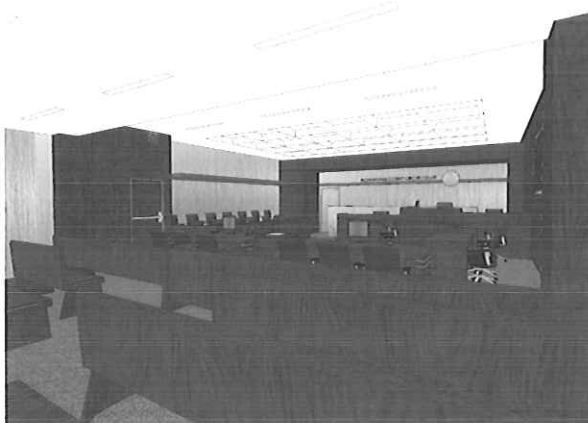
This 80,000 square foot, four level building was purchased by the County in the fall of 2011 and will ultimately serve as the home of the County's judicial services. The scope of the project will involve a complete renovation of the building's architectural, mechanical electrical plumbing, structural, security, and data/telecommunications systems.

The facility will house the County's circuit court, circuit clerk, family court, magistrate court, magistrate clerk, adult and juvenile probation offices, prosecuting attorney, teen court, drug court, and day reporting offices. Additionally, Silling will be providing overall master planning services for the historic county courthouse, including space planning and renovations.

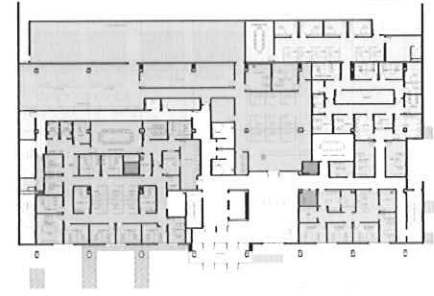
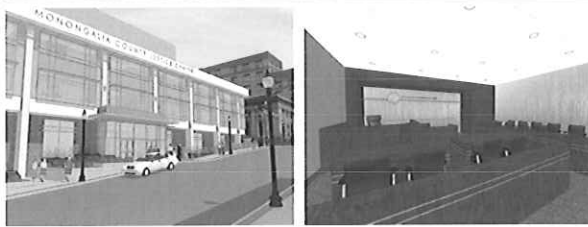




3rd Floor Plan



2nd Floor Plan



1st Floor Plan



Project Size: 87,000 gsf

Project Type: New Construction

Project Status: Completed in 2010

Contact: Dan Adkins, Hartman & Tyner,
304.776.1000

In a continued effort to enhance the entertainment and gaming experience at Mardi Gras Casino and Resort, a new 150-room luxury hotel was designed in the French Quarter theme for a long-standing WV racetrack and casino destination. Without the parameters of an established chain hotel brand or concept, the owners at Mardi Gras worked with our design team to develop a highly customized arrangement of room types, amenities, and palette of materials, fixtures, and furnishings. The resulting design greatly compliments the entire campus character and works to present a cohesively themed resort facility. The building is sited on a higher site plateau and is connected to the gaming center via a pedestrian bridge where guests can easily flow from warm and pleasant private guest rooms to the excitement of the casino atmosphere. Perched on this higher ground, the hotel development is lavishly landscaped, utilizing a combination of native plantings and ornamental trees and hedges indicative of the New Orleans French Quarter. The building architecture is also developed with this theme in mind, resulting in a highly layered and rich mixture of building materials, colors, balconies, and roof lines that recall the lively infill and eclectic composition of Bourbon Street.



The main level of the hotel is anchored by an open sequence of public spaces including a central lounge, bar, and dining area, a well equipped fitness center, and indoor swimming pool utilizing saline technology. Executive meeting spaces are provided for guests, as well as access to a number of charming outdoor patios connected to the various public entertainment and relaxation spaces. Working off of a very clear and simple circulation system and grand elevator lobby that reinforces way-finding, a number of guest rooms are located on the main level and provide the ultimate connectivity to the resort amenities.

The upper floors of the hotel development provide a wide range of guest room typologies, including various arrangements of single king bed and double queen bed rooms. Junior suites with internal sitting areas are located on every floor, as well as a combination of executive suites equipped with enhanced furnishings, gas fireplaces, and luxury spas. The Winner's Circle Lounge is located on the top floor and offers the ultimate in private V.I.P. accommodations.

Our design team was challenged to not only provide architectural and landscape design, but also to provide complete interior design services. Through the selection of all interior finishes and color palettes, lighting and plumbing fixtures, furniture, bedding, window treatments, and artwork, our team was able to craft a complete guest stay experience that provides customized comfort in this themed resort at every level of design detail.





Scheeser Buckley Mayfield
Mechanical, Electrical, Plumbing, Civil, + Telecom Engineering



Scheeser Buckley Mayfield LLC
1540 Corporate Woods Parkway
Uniontown, OH 44685
P 1.330.896.4664
www.sbmce.com

Number of Years in Business:
54 Years

Firm Principals:

James E. Eckman, PE, LEED AP
James P. Kulick, PE, LEED AP
Michael P. Wesner, PE, LEED AP
Marlon C. Hathaway, PE, LEED AP
Kevin M. Noble, PE, LEED AP
Chris J. Schoonover, PE, LEED AP
Vincent J. Feidler, PE, LEED AP
Joshua J. Roehm, PE, LEED AP
Chad B. Montgomery, PE, LEED AP
Ronald R. Radabaugh, PE, LEED AP

Total Employees:
44

Licensed Engineers:
14

Graduate Engineers:
11

Scheeser Buckley Mayfield LLC is a regional consulting engineering firm that serves clients throughout West Virginia, 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 is entering its 50th year of operation.

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, PE, LEED AP, CBCP
President - Electrical Engineering

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, North Carolina, Wyoming 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).



Michael P. Wesner, PE, LEED AP, CBCP
Vice President - Mechanical Engineering

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



Project Experience

CITY CENTER WEST - WV Lottery Renovations – Charleston, WV

A study was done to determine if the existing VAV HVAC system could be used to serve the needs of the new owner. The problems with the existing system were noise and vibration issue near the existing air handling units and there was no fresh air system or an economizer system. A means of correcting the existing VAV system were investigated along with an option to install a Variable Refrigerant Volume (VRV) system with a Dedicated Outside Air (DOAS) System. The Owner Chose the VRV/DOAS system to be installed on the floor that were to be occupied by their staff and directed that a new fresh air system to be installed on the floors occupied by the existing tenants. Along with the HVAC system replacements and upgrades stairwell pressurization fans were added to 3 stairwells.

Electrical design covered the replacement of the building's (2) main service transformers and single main switchboard with (2) new service transformers and (2) new main switchboards to correct Code problems with the existing service and short circuit problems at the main service and with equipment though out the distribution system. The design included a major renovation of the building's emergency power system. It included the removal and replacement of an existing indoor 175KW diesel generator set and automatic transfer switch with a new 800KW diesel generator set, emergency distribution switchboard and (5) automatic transfer switches. Distribution revisions were made to accept the relocation of the Lottery's existing 125KVA UPS system and the battery replacement and maintenance of the building's existing 120KVA UPS system. All revisions to the distribution system were completed with an occupied building. Other revisions to the building included new interior lighting, lighting control, a new voice evacuation fire alarm system, along with a new security and camera system. Telecommunication design included a structured cabling system in a 13-floor multi-tenant office building with unattached warehouse consisting of (1) Data Center and (9) Telecom Rooms (TR). Singlemode and multimode fiber as well as 25-pair CAT5e cable connect each TR to the Data Center. Backbone cable pathways included vertical conduit pathways and a buried conduit bank beneath the parking lot to the warehouse telecom room. CAT6 horizontal cable connect telecom outlets throughout the facility to the various TR's.

WEST VIRGINIA STATE CAPITOL COMPLEX - Building 4 Renovation – Charleston, WV

ScheeSer Buckley Mayfield is performing the MEP design for a phased renovation and upgrade of this 7 story high-rise office building. The project consists of an initial infrastructure phase which includes fire suppression mains, fire pump, telecommunications risers, stairwell pressurization system and emergency generator to facilitate upgrades for code-compliant egress and other high-rise code requirements. Subsequent phases of the project are to include floor-by-floor renovations and upgrades to the facility including re-balanced HVAC systems and new lighting, power and data systems. The project also includes deferred maintenance and repair of various systems in the building such as fans, pipe insulation, and fire water service. ScheeSer Buckley Mayfield was involved in preliminary building evaluations, scope analysis and cost estimating to assist the owner in budgeting and scheduling of the project phases.

DOMINION EAST OHIO - Cleveland Office Renovation – Cleveland, Ohio

The Dominion East Ohio campus renovations consist of remodeling two 35,000 SF buildings. The first building included renovating the second floor of a garage facility. The occupancy of the building was modified to serve mainly as an open office and conference area, along with space for a 24-hour dispatch area. On the first floor of the building, a large area was remodeled for a training area to instruct employees on the use of different types of gas fired equipment. The mechanical systems for the building include 2 rooftop variable air volume air handling units serving the second floor with reheat VAV boxes and perimeter radiant panels, a constant volume air handler serving the training area and multiple environmental conditioning units serving as redundant units and for specialty areas in the building. New hydronic boilers were installed in the building to provide the heat required for current and future heating loads.



Project Experience

The second building was a complete renovation of an office/warehouse facility. The building was modified to contain open office areas, small conference rooms, individual offices and a cafeteria/kitchen area. The mechanical systems in the building include 4 variable air volume air handling units with reheat VAV boxes and perimeter radiant panels. Three new boilers and one new water-cooled chiller were installed to provide the heating water and chilled water. Existing cooling towers were reused to work with an existing and a new chiller. A new kitchen exhaust system and hoods were installed to serve the leased kitchen space.

GO-JO - Corporate Headquarters – Akron, Ohio

Scheeser Buckley Mayfield LLC designed mechanical systems to totally renovate an existing six story office building located in downtown Akron which was built in the early 1960's. The renovated building serves as the world headquarters for Go-Jo Inc. which manufactures specialized soap and cleaning products. Along with corporate office space, the building houses product development laboratories and testing laboratories. The building has six occupied floors which total approximately 200,000 sq. ft. of space. A mechanical room in the basement houses the chiller plant, air handling units, and auxiliary equipment, while a mechanical room in the penthouse of the building houses a boiler plant air handling units and domestic hot water equipment. A new gas line was designed and routed through the building to the penthouse level for the boiler plant and domestic hot water heater. Previously the building was served by city steam which was disconnected as part of the project. The mechanical systems replace the entire HVAC systems in the building and provided extensive plumbing and fire protection work. The HVAC systems included a new heating water boiler plant which consisted of six modular hot water boilers. The heating water system utilizes a primary/secondary pumping loop with variable speed pumping in the secondary loop. A new chiller plant was installed in the basement area of the building replacing all existing chilled water components. Two new electric centrifugal chillers were designed to replace an existing steam fired absorption chiller. New chilled water and condensed water pumps were designed along with major piping renovations in this area. A new cooling tower was designed to replace the existing undersized and deteriorating cooling tower at the roof level. Variable frequency drives were utilized to modulate cooling tower fan speed to control condenser water temperature. Existing chilled water risers and tower water risers throughout the six story building were reused as they were checked and found to be in good physical condition.

Plumbing systems consisted of new restrooms on all floors utilizing existing domestic water and sanitary piping risers. A new gas fired domestic hot water heater was installed in the penthouse mechanical room. Fire protection work consisted of a new wet pipe sprinkler system throughout the entire building. Flow and pressure from the city was adequate to the building so that a fire pump was not required. Flow tests were obtained from the city and calculations were made to determine that a fire pump was not necessary.

An entirely new system of direct digital temperature controls was designed for the building. The existing system of controls was pneumatic with a few electronic devices. The new digital control system design will completely monitor and control all functions of the building including digital controls at the zone levels of the building. All air handling systems in the building were renovated. Existing air handling units received new cooling coils, heating coils, fan motors, mixing dampers, attenuators, and temperature controls. Two new air handling units were designed for the building as the new cooling load for the building exceeded the existing cooling load in the building. All air handling systems in the building were converted to VAV or partial VAV for energy conservation. Specialty areas in the building included laboratories which required special plumbing and HVAC requirements. An RO system of water purification was designed for the laboratory areas. Air pressure monitoring and tracking controls along with fume hood safety controls were designed for the laboratory areas. Construction for the entire renovation project is expected to be complete in the spring of 2000.



Project Experience

FIRST ENERGY - McKinley Management - FirstEnergy General Offices – Akron, Ohio

Scheeser Buckley Mayfield LLC provided mechanical and electrical design and engineering for replacement of air handling units on 17 floors of this 20 story office tower in downtown Akron, Ohio. Each floor has a typical floor footprint of approximately 18,000 sq.ft. The replacement was performed during one weekend per floor, which consisted of removal of the existing air handler and field erection of a new air handler with extremely restricted access. For each replacement, the system installation and utility connection was completed, tested and fully operational prior to the Monday morning return of the tenants. As a result of the stringent design documentation, disruption to the tenants was virtually non-existent. The project also added return fans to each floor and new DDC controls, improving tenant comfort and allowing compliance with ASHRAE 62. A second phase of the project included new ceilings and low-glare light fixtures throughout the 17 tenant floors.

NATIONAL CITY BANK - Akron Center Building – Akron, Ohio

Scheeser Buckley Mayfield provided mechanical and electrical design for approximately 53,000 sq ft on floors 1-6. Renovations were completed in the lobby and office areas. One challenge on this project was upgrading the electrical distribution system to accommodate increased circuit requirements of the space and working with an old antiquated electrical floor duct system. Existing electrical system consisted of 480V bus duct risers up through an electrical closet on each floor where 480/277, 3 phase, 4 wire fused disconnect bus taps were used to feed a lighting panel on each floor and fused bus taps to feed step down transformer and associated 208/120V, 3 phase, 4 wire panels for branch circuit loads on each floor.

CITY OF GREEN - Administration Building – Green, Ohio

The HVAC system for the building includes the use of energy efficient water source heat pumps to provide zone control. A fluid cooler and two condensing boilers, each sized at 75% of building load for redundancy, provide the necessary heating and cooling of the loop serving the heat pumps through a series piping arrangement. A make-up air unit located in the basement is ducted throughout the building to the water source heat pumps to provide the minimum outside air requirements for each zone. The heating/cooling coil in the air handling unit is served by two water to water heat pumps and circulating pumps located in the mechanical room. Supply air ductwork from the heat pumps is extended throughout each zone to provide the heating and cooling of the space with a return air plenum above the ceiling for recirculating the air in the space. The pumping system serving the water source heat pumps and the water to water heat pumps consists of two pumps rated at 75% of the building load providing redundancy in the system. To prevent freezing of the system during the winter months, the heat pump fluid contains 40% propylene glycol.

The Plumbing systems for the building includes two gas fired domestic water heaters to provide domestic hot water to the building via an electronic mixing valve installed in the mechanical room. Hands-free sensor operated faucets and flush valves are installed on all water closets, lavatories and urinals. An elevator sump pump and duplex footer drain sump pumps were installed in the basement.

The building is designed to be fully sprinkled. A double check backflow preventer is installed at the water entrance of the building to serve the sprinklers.

The electrical system consists of a 1200A, 208/120V, 3-phase, 4-wire system fed underground from an existing sectionalizer switch. The entire building is on emergency power supplied by a 500KW generator. The main switchboard feeds three (3) automatic transfer switches with bypass isolation. One 800A ATS will transfer all the mechanical loads for the building, fed from an 800A MDP. The second transfer switch is 400A and transfers all the lighting and receptacle loads, fed from a 400A MDP. A 25HP elevator is also fed from this MDP. The third transfer switch, a 100A switch, transfers all the life safety lighting. Life safety lighting includes unswitched stairway lighting, corridor lighting and exit signs.



Project Experience

The lighting design consists of energy efficient volumetric direct/indirect lighting in offices along with direct/indirect suspended fixtures and dimmable downlights in conference rooms. Volumetric lighting and suspended direct/indirect fixtures contain energy efficient T5-HO lamps. The main lobby contains downlights used for wall wash applications and decorative bowl fixtures. The council chamber area contains dimmable downlights and decorative bowls. The entire building is controlled by a lighting control system which will automatically turn lights on/off as programmed as requested by owner. Low voltage digital switches are used in rooms and can be programmed to operate lighting in the rooms as requested by owner.

A complete fire alarm system was designed for the building. Rough-in for telecom and a security system was provided.



Shelley Metz Baumann Hawk, Inc.
 1166 Dublin Road, Suite 200
 Columbus, Ohio 43215
 p 614.481.9800
 f 614.481.9353
 www.sbmce.com

Number of Years in Business:
 41 Years

Firm Principals:
 William Shelley, PE
 Robert A. Baumann, PE
 Stephen Metz, PE
 Eric J. Messerly, PE

Total Employees:
 20

Licensed Engineers:
 11

Graduate Engineers:
 4

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

- Educational
- Institutional
- Religious
- 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 using steel, concrete, masonry and wood
- Analysis and inspections of existing structural systems
- Failure Analysis and Investigations
- Expert Witness Testimony
- Foundation Systems
- Feasibility Studies
- Code Analysis

SMBH was one of the first structural engineering firms in the Central Ohio region to utilize BIM technology. We have used this technology on projects as small as a 5,000 square foot addition to projects as large as a 350,000 square foot courthouse. We have also worked with the State of Ohio Architect's Office to help them develop their BIM Protocol. This document will be followed by designers and constructors on all future projects with the SAO that require the use of BIM.

The firm and individual staff members are committed to providing service of the highest quality. The key to success of any project is balanced 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 150 years of combined experience in structural design and enjoys the challenge of developing creative structural engineering solutions. We listen to our clients.



Robert A. Baumann, PE
Vice President/Project Manager

Mr. Baumann has been employed in the consulting structural engineering business since 1981. He received a Bachelor of Science Degree in Civil Engineering in 1980. 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.

Mr. Baumann is registered to practice in the following states: Arkansas, Georgia, Iowa, Kentucky, Nebraska, Nevada, Ohio, Oregon, Rhode Island, South Carolina, Utah, Washington and West Virginia.

Professional Affiliations Include:

- American Council of Engineering Companies (ACEC)
- American Forest & Paper Association
- American Institute of Architects - Columbus Chapter (Affiliate)
- American Institute of Architects - West Virginia Chapter - (Affiliate)
- American Institute of Steel Construction – Design Professional Member
- American Society of Civil Engineers
- American Concrete Institute
- American Wood Council, Design Professional Member
- Council of American Structural Engineers (CASE)
- Structural Engineers Association of Ohio – Charter Member
- St. Elizabeth Church – Finance Committee Chairman
- Tilt-Up Concrete Association

**WEST VIRGINIA LOTTERY HEADQUARTERS - City Center West - Renovations & Additions
Charleston, WV**

Construction Cost: \$13,000,000
Completion Date: 2011

STEVENS CORRECTIONAL FACILITY - Addition and Renovation – Welch, WV

This project is the conversion a former hospital into a state correctional facility. Renovations and additions resulted in housing for 334 inmates and support facilities including classrooms, administration, medical, kitchen and dining, and laundry. Each wing of the four-story 1976 building became a housing unit consisting of 46 inmates in double-bunk cells constructed of CMU. Each housing unit shares a secure indirect supervision unit that promotes efficient staffing and inmate control. Dining, education and administration are located on the ground floor in captured open vehicular circulation space beneath the wings of the 1976 building. Vertical inmate movement and perimeter building/site security is monitored by a master control unit strategically located on the ground floor in the heart of inmate circulation. Master control has direct visual observation of visitation, outdoor recreation, dining and education entrance. The facility features state of the art electronic security video surveillance and perimeter management system. The project features a total reconstruction of all interior architectural, mechanical, electrical, fire protection, and communications systems into the shell of the abandoned hospital.

Construction Cost: \$12,000,000
Completion: 2005

ALLEGANY COUNTY DISTRICT COURT - Addition and Renovation – Cumberland, Maryland

Construction Cost: \$6 million
Completion Date: 2009

246 N. HIGH STREET / 35 E. CHESTNUT - Renovations – Columbus, OH

The State of Ohio purchased an office building complex at the corner of High Street and Chestnut Street in downtown Columbus to house various state agencies. The original building on the site, immediately adjacent to Chestnut and High, was constructed in the early part of the 20th century. In the late 1940s, a 10-story addition was constructed on High Street, south of the original building. The building at 35 East Chestnut was constructed east of the original building and across Pearl Alley during the 1960s.

The State of Ohio has undertaken a major renovation of the complex in order to modernize mechanical, electrical and plumbing systems with the goal of extending the useful life by 40 years. We prepared structural analysis calculations to verify the live load capacity of floors and roofs and determine the impact of cutting new openings in them. During the construction phase, some severely deteriorated structural elements were uncovered, and we quickly prepared designs to repair the damage so as not to impact the construction schedule significantly.

A thorough investigation of the building façade also was an essential component of the revitalization process. After examining the exterior surfaces and noting unusual cracking and displacement, we determined that removal of selected portions of the brick and stone façade was necessary in order to examine the supporting steel shelf angles and ties. We prepared a plan for examination and supervised removal of selected façade panels so we could closely examine the steel. We subsequently designed repairs involving removal and replacement of corroded shelf angles and anchors.

Construction Cost: \$46,000,000
Completion Date: 2011

ROGERS/KRAJNAK ARCHITECTS - Office Renovation – Columbus, Ohio

This project was a complete renovation of a former car repair shop into a combined office and retail building. The building dates to the early part of the 20th century and is situated in downtown Columbus. Structural work that was done included reinforcing the cast in place concrete floor for the higher office loading requirement. We also reframed the single story roof to match the desired interior aesthetic while providing future flexibility with the building by designing the framing as a future floor. We also reframed the front wall of the building to allow for the new storefront system. A thorough understanding of the existing structure was necessary for us to successfully complete the project.

Construction Cost: \$600,000

Completion Date: 2005

FRANKLIN COUNTY COURTHOUSE – Columbus, Ohio

Located in the historic River South District of Columbus, the Franklin County Courthouse represents the American justice system for the citizens of Franklin County. The 350,000-square-foot facility is at the northwest corner of High and Mound streets. It replaced the 1970s-built county courthouse, which was located across the street. The design team was awarded LEED Gold certification for the project, making it one of the first green-built county courthouses in Ohio. The complex includes sharp-angled, contemporary designs with seven-stories of glass walls, as well as grand corridors that offer a spectacular view. Included in the amenities of the structure are 30 common pleas courtrooms, 10 magistrate rooms, a coffee shop, office spaces, and a sunlit waiting room for jurors.

Working with a fast-track construction schedule, the project team encountered some challenges with the availability of materials, which necessitated early delivery of structural drawings to facilitate ordering steel early. The design team also had to coordinate exterior column locations in advance to correspond with the façade of the building. Additionally, the project required collaboration to construct a mechanical penthouse on the roof.

Construction Cost: \$105,000,000

Completion Date: 2011

OFFICE CAMPUS - ABERCROMBIE & FITCH – New Albany, Ohio

After spinning off from The Limited, Abercrombie and Fitch needed office space. Nearby New Albany was chosen as the location for the office campus and distribution centers, which would become the Headquarters for the retailer. When it was completed in 2002, the office campus consisted of 5 buildings. The buildings housed corporate offices, design studios, mock-up stores, a dining facility and a mechanical building. The total area of the buildings was 200,000 square feet. The design of the buildings and the surrounding campus supported the A&F brand. The buildings boast exposed structural steel, exposed wood finishes to make the spaces feel rustic and large expanses of glass. To support the corporate brand, outdoor fireplaces, decks and walking paths between buildings were also incorporated into the design.

As the company grew, so did their need for additional space. Since construction on the original campus was completed, 5 buildings have been added. SMBH designed the structure for all of the original and additional buildings. The additional buildings nearly doubled the size of the campus. All of the buildings were designed using similar materials and layouts as the original buildings to support the A&F brand.

The challenge with all of the projects at A&F has been the schedule. Our firm has a long history of working with short design schedules while being able to design a structure that fits the desired aesthetic and the budget. Every project at A&F has had a short design schedule and we have met every one of them.

Total Construction Cost: \$104,000,000

Completion Dates: 2002 - 2009

BROAD & HIGH STREETS - Office Building – Columbus, Ohio

Bringing a unique and exciting face-lift to the historic downtown area of Columbus, Ohio, the Broad & High Streets Mixed-Use Development is now the center for an ever-changing 21st-century city. Comparable to Manhattan's Times Square, the 50,000-square-foot development includes the "8 on the Square" luxury condominiums, street-level retail, office spaces, digital ticker tapes, billboards, a parking garage, and gardens atop a four-story building. With a breath-taking view, residents of the 1,400- to 2,800-square-foot condominiums have access to professional businesses, as well as state and local government facilities, such as the Ohio Statehouse. Additionally, at the crossroads of Broad & High streets, residents are at the median of the city's best entertainment and events.

This complex project resulted in several challenges for SMBH during the design and construction phases of the development. One of the major issues was developing an area of downtown, while keeping its historic features intact. The site itself required the demolition of an existing building, while maintaining the structure of other attached buildings. Additionally, the basement of the building had to be constructed 15-feet deeper than the basements of the attached buildings. A one-story parking garage was constructed beneath the building. Structural steel framing and reinforced concrete columns were used to support the building. The adjacent 16-story 8 East Broad Building required the addition of a stair to meet code requirements. To achieve this, an addition that included the new stair and balconies for the condominiums was added. The new structure had to be constructed above the four-story building while being separate from the structure below. This resulted in creative design of the framing to achieve the design intent of the building.

Construction Cost: \$12,000,000

Completion Date: 2008

GRANGE INSURANCE HEADQUARTERS EXPANSION - Office Tower and Parking Garage – Columbus, Ohio

Located in the historic Brewery District in Columbus, Ohio, the project consists of a 10-story addition to the existing 12-story office building, a two-story data center and a new 1,000-space parking garage. The new office building and data center are steel-framed structures, and the parking garage is post-tensioned cast-in-place concrete. There were several design challenges on this complex project. The new office tower and data center needed to blend in with and enhance the appearance of the existing tower as well as address the urban aesthetic of the Brewery District. The office layouts of the new tower needed to merge seamlessly with the existing office floors. This dictated a 35-foot by 35-foot bay size – a large bay size for an office building. In addition, it was determined to use an under-floor air distribution system. This required a 1-foot deep raised floor system and the new floors had to align with the floors of the existing office building. These factors resulted in a less than optimum depth for the floor framing system, which consists of a lightweight concrete slab on composite metal deck on high strength structural steel framing. The girders were fabricated with large web openings between the infill beams to facilitate air distribution.

Construction Cost: \$90,000,000

Completion Date: 2009