



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

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E-mail: wyk@wykarchitects.com

RECEIVED
03/11/21 11:03:32
WV PURCHASING DIVISION

TO: Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Mar 10, 2021	Job # 2100000007
ATT: David H Pauline	
RE: MCA South Facility Upgrades Design	

We Are Sending You

- Shop Drawings Attached Under separate cover via _____ the following items:
 Copy of Letter Prints Sketch Samples Specifications
 Change Order Submittals via UPS

Copies	Date	No	Description
1	03/10/21	Hard Copy	Expression of Interest for MCA South Facility Upgrades Design
3		CDs	Addendum Acknowledgement Form Designated Contact State of WV Purchasing Affidavit
			Solicitation No. CEOI 0603 ADJ2100000007
			SEALED BID
			BUYER: David H. Pauline
			SOLICITATION NUMBER: CEOI 063 ADJ2100000007
			BID CLOSING DATE: March 11, 2021
			BID CLOSING TIME: 1:30 p.m. EST
			FAX Number: 304-558-4115

These Are Transmitted

as checked below:

- For Approval Furnish as Submitted Resubmittal Not Required ___ Copies for Approval
 For Your Use Furnish as Corrected Rejected ___ Copies for Distribution
 As Requested Revise and Resubmit Resubmit ___ Corrected Prints
 For Review and Comment _____
 FOR BIDS DUE _____ PRINTS RETURNED AFTER LOAN TO US

Remarks

WYK Associates, Inc. thanks you for the opportunity to submit a proposal on this project. We look forward to the possibility of working with you in the near future.

COPY TO: file

SIGNED: James B. Swiger, AIA

If enclosures are not as noted, kindly notify us at once.

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: 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: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, 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: WYK Associates, Inc

Authorized Signature: [Signature] Date: 3/10/21

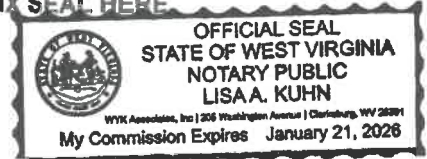
State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 10th day of March, 2021.

My Commission expires January 21, 2026

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 01/19/2018)

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

James B. Swiger, AIA / President
(Name, Title)
WYK Associates, Inc.
(Printed Name and Title)
205 Washington Ave., Clarksburg WV 26301
(Address)
304-624-6326 / 304-623-9858
(Phone Number) / (Fax Number)
james@wykarchitects.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

WYK Associates, Inc
(Company)
James B. Swiger, AIA - PRESIDENT
(Authorized Signature) (Representative Name, Title)
James B. Swiger, AIA - President
(Printed Name and Title of Authorized Representative)
03/10/21
(Date)
304-624-6326 / 304-623-9858
(Phone Number) (Fax Number)

MCA SOUTH FACILITY UPGRADES DESIGN

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WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MCA South Facility Upgrades Design

LETTER OF INTEREST



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

March 10, 2021

Mr. David H. Pauline
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Re: Mountaineer Challenge Academy South Facility Upgrades Design

Dear Mr. Pauline:

WYK Associates, Inc. wishes to express a strong interest in providing design services for this exciting project! We have included on our team Allegheny Design Services (ADS - **owned by David Simpson, a WVU Tech graduate**) for Structural Engineering of Morgantown; ZDS Design Consultants / Engineering (**owned by Todd Zachwieja, a WVU Tech graduate**) for Mechanical, Electrical and Plumbing Design located out of St. Albans; &estimate (a PCS Company) for Construction Cost Estimating / Budget Control and Civil & Environmental Consultants, Inc. (CEC) of Bridgeport for Civil Engineering as required. WYK has a solid working relationship with these consultants and we have custom tailored the team to what we believe is the best team for the unique needs of your project. For decades we have been successful with focusing on architecture, which we are trained at and do best. We carefully select and utilize knowledgeable, experienced and trained consultants who specialize in their respective disciplines.

Our experience includes work on a wide variety of building types and projects of varying scopes and complexities, including projects for the WVARNG at Camp Dawson. Examples of these are included in this Expression of Interest. WYK Associates, Inc. and its predecessors have provided architectural services in West Virginia since 1900. We believe that our knowledge and expertise and strong project team make our firm a sound choice for this endeavor. If LEED or Energy Star requirements are sought for this project, our team has the expertise to handle these facets of this renovation. Also, WYK is currently working close to this area, as we are the architect for the renovations to Hawk's Nest State Park Lodge Renovations & Redecorating located in Anstead.

Our design team has vast experience evaluating and working within existing buildings with many build-outs in either new construction or complete gut and re-dos. Additionally, we have worked with upgrading many existing buildings to meet modern day codes while maintaining the original integrity of the structure. We are strong proponents of first performing a space needs assessment, which physically evaluates each building, its use and size and determines who is using every square foot of every building. We also evaluate the space relationships and functionality of each department and how each fits within the overall plan. This is often a revealing process. This method has many times proven to minimize the amount of new construction needed over what was originally anticipated.

We understand the importance of working with the staff at Academy and the State of West Virginia Purchasing Office to develop a common sense design solution that works best for you with regards to the scope of work, schedule and available funding. The principals noted in our Team Organizational Chart will be the individuals with whom you will work. We feel that the involvement of these principals throughout the course of the project allows us to provide our utmost level of service. We have demonstrated these services on a variety of projects time and time again.

Thank you for your consideration, we welcome the opportunity to meet with you to discuss your project further. Please feel free to contact me if you any questions or need any additional information regarding this submission at 304-624-6326 (office) 304-677-3373 (cell) or via e-mail at james@wykarchitects.com.

Respectfully Submitted,

James B. Swiger, AIA, NCARB, LEED AP BD+C
President



WYK ASSOCIATES, INC.
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MCA South Facility Upgrades Design

COMPANY OVERVIEW / PUBLICATION



WYK ASSOCIATES, INC.
ARCHITECTURE + PLANNING

Company Information

Identity · Project Philosophy · Project Management

www.wykarchitects.com



Our Identity

Who we are

WYK Associates, Inc. is a full service architectural and planning firm serving a wide variety of commercial, religious, educational, civic and industrial clientele.

WYK Associates, Inc. was established in 1900 by Edward J. Wood. Our archives are filled with a century's worth of historic work. From this, many predecessors who have carried the torch of the firm through the last century.

Wood's grandfather's firm had roots in North Central West Virginia dating back to the early twentieth century. William Yoke, Jr. and Howard Kelley partnered with Mr. Wood in 1974 to form WYK Associates, Inc.

Mr. James Swiger joined the firm in 2005 and became a principal and vice president in 2008. In 2010, Mr. James Swiger assumed sole owner of WYK Associates, Inc.

Project Philosophy

Our process at work

COMMUNICATION & TEAMWORK are our guide words for each project. Our client's requirements for quality, service and value are the driving force behind each decision.

Through collaboration with engineering consultants we address the needs and schedule requirements of each client.

We provide thorough planning in all areas of each project to fit the individual requirements for a positive impact on both the natural and built environments. Energy conservation and product safety are very important concerns.

Project Management

How we create excellence

We carefully evaluate the client's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of each project.

We incorporate input from our client and consultants to establish the budget and schedule. These facets are updated during each stage of project development to ensure our client's parameters are met.

WYK's principals engage and manage the entire project team, from concept through occupancy. WYK Associates, Inc. has an outstanding reputation for providing construction administration services along with maintaining an excellent rapport with contractors.

“ Our building stands as a tribute to you and your firm for a job well done. ”

-Charles A. Feathers, Chief Bridgeport Fire Department, Retired



WYK ASSOCIATES, INC.
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Company Information

Identity • Project Philosophy • Project Management

Architecture

Contact Information

WYK Associates, Inc.
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Project Staff

James B. Swiger
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President / Principal-in-Charge
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Stephen M. Kelley
Associate AIA
Senior Project Manager
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Canon T. Fancher
Associate AIA, LEED Green Associate
Designer / BIM Coordinator
cannon@wykarchitects.com

Summary

Established as a full service architecture firm in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 120 years. Through innovative and thoughtful responses to the unique issues of each project, our goal is to create places that fit the needs and desires of those who use them.

Our team approach integrates the collaborative strengths of each member to produce a solution of balance between design quality, schedule and budget. We have always considered sustainability, the built environment, and quality of life long before the public began to focus on its benefits. We take seriously the responsibility of designs and solutions to be cost effective and operate efficiently throughout the building's lifecycle.

Relevant Project Experience:

- West Virginia Folklife Center, Fairmont State University
- Central Fire Station, Clarksburg, WV
- Circleville School, Pendleton County, West Virginia
- Harrison Co. Courthouse, Clarksburg, WV
- Pocahontas County Courthouse, Marlinton, WV
- Barbour County Courthouse, Philippi, WV
- Gassaway Depot, Gassaway, WV
- Morgantown Depot, Morgantown, WV
- Immaculate Conception Parish Center, Clarksburg, WV
- Jackson Square, Clarksburg, WV



West Virginia Folklife Center



Central Fire Station



Circleville School





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity • Project Philosophy • Project Management

Awards



2013 WV AIA MERIT AWARDS

ALL-ACHIEVEMENT IN
ARCHITECTURAL DESIGN

MIDDLE-INTERIORS

BOTTOM-UNBUILT

Fairmont State University –
Frank & Jane Gabor Folklife Center
Fairmont, West Virginia
Size: 6,900 S.F.

The Folklife Center was constructed in 1903 by Michael Kennedy and is the last remaining vestige of the Kennedy's dairy farm. The building had been seriously compromised by years of neglect and fire damage. Due to the building's history and notable residents, it was placed on the National Register of Historic Places in 2006.



FSU-Interior Design
Fairmont, West Virginia

After developing an architectural program for the Folklife Program, WYK Associates, Inc. decided to remove a floor from the existing structure and create a first floor classroom area, and a second floor "Great Room" which would restore the open structure of the barn and provide both exhibit and multi-use space.



Shinnston Community Center
Shinnston, West Virginia
Size: 17,000 S.F.

The facility will serve as a performing arts center, a look out for downtown events such as parades, etc. A much needed large banquet hall, accommodating 350 people, will provide the city with a gathering space for meetings and community organization. There is also a room solely dedicated to the Shinnston Senior Citizens, and another additional meeting room. The upper level of the building serves as the city administration offices and Council Chambers.



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity • Project Philosophy • Project Management

Awards



2013 WV-AIA Merit Award for Design Excellence and Sustainable Design

Information Manufacturing Corporation (I.M.C.)

Cowen, West Virginia

Size: 18,000 S.F.

With Sponsorship from Senator Robert C. Byrd, the Webster County Development Authority commissioned this "state of the art" facility to house Information Manufacturing Corporation's regional operations. The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.



2013 WV-AIA Merit Award for Design Excellence



West Union Bank - Newpointe

Clarksburg, West Virginia

Size: 9,000 S.F.

The design uses a combination of glass curtain wall with brick and monumental masonry units to present a very contemporary image. Because of the building orientation, the glass elevations require the use of solar glazing and a brise soleil system to reduce heat gain and glare in the offices.



2013 WV-AIA Merit Award for Design Excellence

West Pike Street

Parking Facility

Clarksburg, West Virginia

Size: 57,000 S.F.

The facility's design compliments all the adjacent properties, both historic and modern. A variety of outdoor activities are easily held here, enhancing the city's economy and livability. Designed by Associated Architectural Consultants, PLLC, which is a combination of Ralph Pedersen Architect & WYK Associates, Inc.



2019 WV-AIA Honor Award for Design Excellence in Architecture - Historic Preservation

2019 WV-AIA Craftsmanship Award for Excellence in Architectural Detail and Craftsmanship

Robinson Grand Performing Arts Center

Clarksburg, West Virginia

Size: 45,000 S.F.

This project was awarded full EPACT Tax credits for surpassing the ASHRAE 2007 Standards for HVAC, Interior Lighting and Building Envelope Exterior Improvements. It was also awarded the 2018 Excellence in Construction Award from the Associated Builder and Contractors, Inc.



WYK ASSOCIATES, INC.
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Company Information

Identity · Project Philosophy · Project Management

3D Laser Scanning / 3D Modeling / 3D Printing

WYK Associates, Inc. welcomed the New Year by taking a leap of progress in architectural design. By acquiring a color 3D printer, the Clarksburg architectural-planning firm puts themselves on the map as an industry leader in the region.

3D printing technology is just now becoming available, commercially. A color 3D printer creates a physical, three-dimensional gypsum-based model of any project from a digital prototype in nearly three million colors, allowing for exact detailing in every model.

“Our refined modeling process allows our clients to see and touch a new building at scale, but with its actual features. It enables our clients to make educated choices with less variance between their expectation and the actual outcome,” states James B. Swiger, President of WYK Associates, Inc.

The decision to purchase a color 3D printer was not made lightly. Evaluating different brands, methods

and technologies in 2013 and visiting maker labs and distributors in- and out-of-state, WYK opted for a solution tailored to the architectural environment and the company’s clients, by choice the “greenest”, most environmentally friendly model available to date.

To unleash the full potential of the 3D printer, WYK partners with ZDS Design/Consulting Services on 3D laser scanning. In the process of 3D laser scanning, laser beam signals that collect survey data points are used to capture images, make drawings and record measurements of a structure.

Combining the two technologies, existing buildings are scanned to the accuracy of one millimeter and then recreated as scale models on the 3D printer. An exciting combination - another first for the region - producing results greater than the sum of its parts.

“The possibilities are endless, and we have only just begun,” says Swiger enthusiastically.



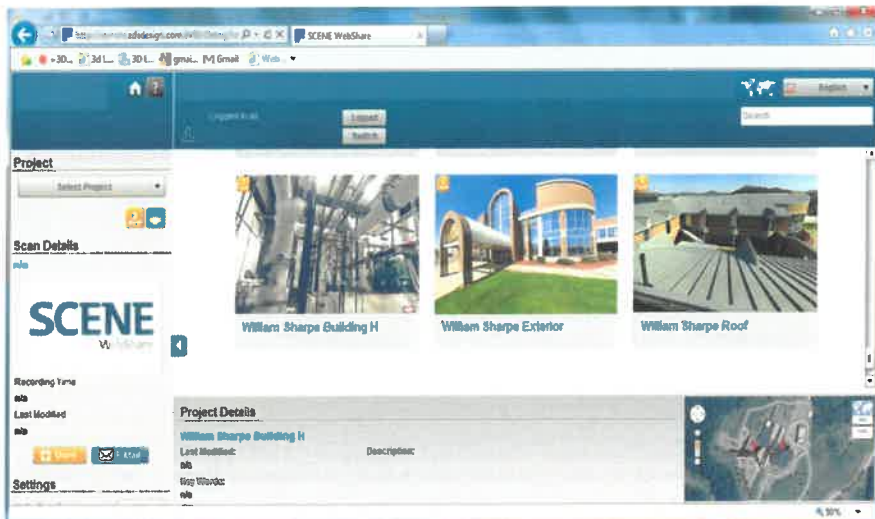
3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Modeling



3D Laser Scanning



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

120 Years of Excellence in Architecture



Rooted in History

The history of WYK Associates, Inc. is intertwined with the history of architecture in West Virginia. Through the years, countless buildings have been designed, expanded, and renovated by our company and its predecessors.

Focus on Knowledge

Our staff is academically trained, all of our Architectural Interns have a degree in architecture from the East Coast's most prominent design schools. We know that professional development and enrollment with the professional organizations of our trade is the key to skilled employees.

Backed by Experience

We have been involved in a multitude of projects serving clients of the private, industrial and public sectors. From LEED-certified building design and complex multi-phase additions to the careful renovation of historical landmarks or our national heritage, we have been instrumental in our client's building success.

Passing the Torch

With generations of skilled architects contributing to the growth, values and success of our company, we developed a reliable process and keep an archive of documented solutions for architectural problems and planning challenges. This helps us to save time and resources, providing an advantage for our clients.

Ready for the Future

We are the first West Virginia architect to offer 3D printing solutions in-house, and with integration of 3D scanning and BIM in our projects, we are ready for the future of our trade.

- 2018 — Robinson Grand Performing Arts Center construction complete. Grand Opening!
- 2017 — Construction begins on the Robinson Grand Performing Arts Center
- 2017 — Ribbon Cutting Ceremony held for Clarksburg Federal Credit Union
- 2016 — Upshur County Courthouse Roof and Chimney Restoration
- 2015 — WYK Associates, Inc. signs contract to renovate the Robinson Grand Theatre
- 2014 — WYK Associates, Inc. selected to renovate Rose Garden Theatre, formerly Robinson Grand Theatre
- 2012 — James Swiger becomes sole owner of WYK, now President and Principal-In-Charge
- 2011 — William E. Yoke, Jr. retires, James Swiger becomes President
- 2008 — James Swiger becomes Partner and Vice President
- 2005 — James Swiger returns as Project Architect
- 1996 — James Swiger becomes an Architectural Intern at WYK Associates, Inc.
- 1996 — Carleton Wood, Jr. retires; William E. Yoke, Jr. becomes President
- 1992 — Howard Kelley retires
- 1978 — WYK Architects, Inc. becomes WYK Associates, Inc.
- 1976 — Carleton Wood, Jr., William E. Yoke, Jr. and Howard Kelley form WYK Architects, Inc.
- 1973 — Whalen King Architects purchases W.H. Grant's firm
- 1971 — Carleton Wood, Jr. joins Whalen King Architects
- 1956 — William H. Grant, Jr. acquires firm
- 1949 — Carleton Wood, Jr. joins firm as apprentice
- 1939 — Carleton Wood selected to rebuild Robinson Grand Theatre
- 1927 — Carleton Wood designs Clarksburg Fire Station
- 1921 — Firm changes to E.J. Wood and Son Architects as Carleton Wood joins
- 1910 — Edward J. Wood commissioned Marion County Jail
- 1900 — Edward J. Wood starts architectural practice



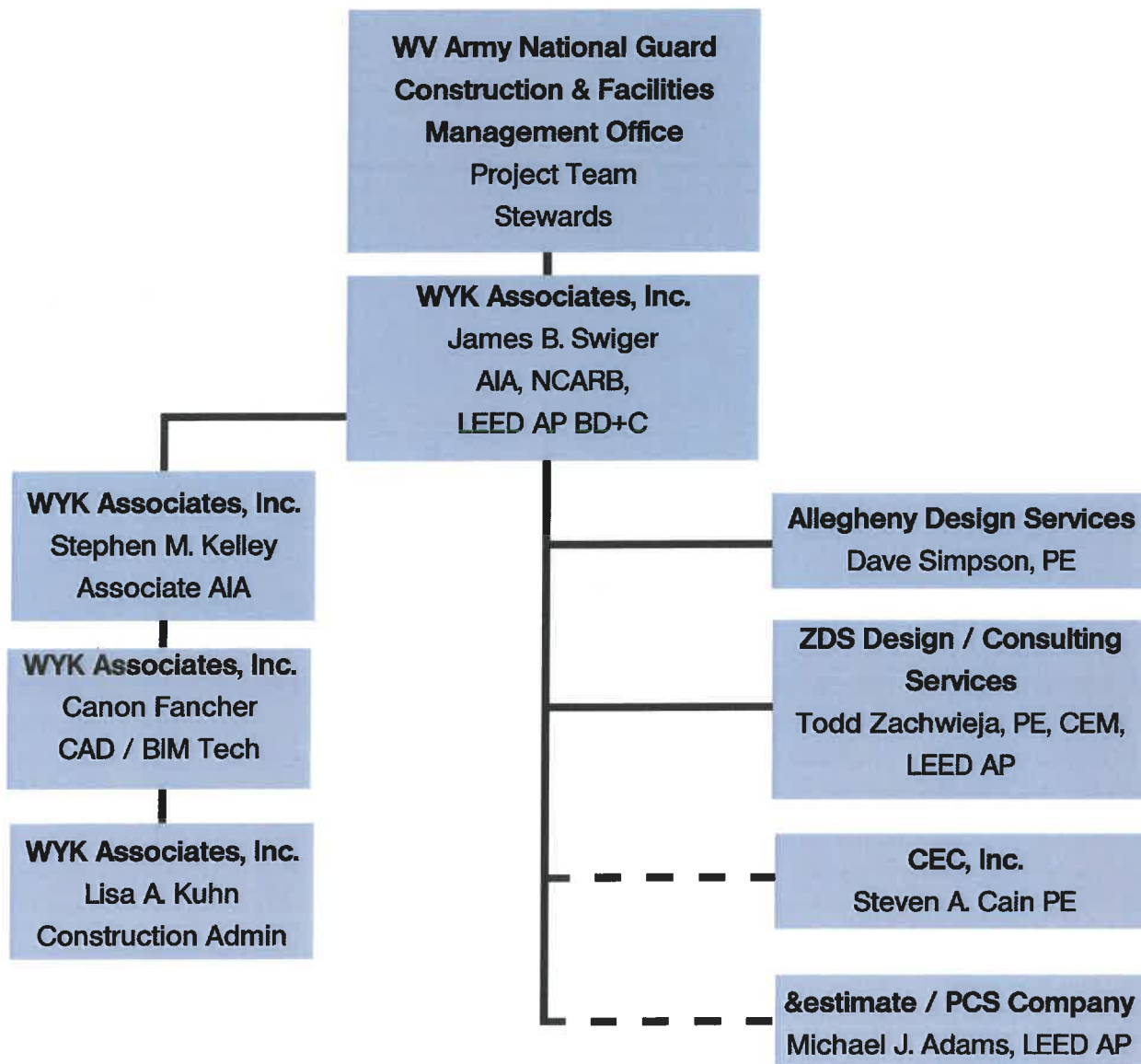
WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MCA South Facility Upgrades Design

PROJECT TEAM



Development Team Organizational Structure





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MCA South Facility Upgrades Design
PROJECTS



WYK ASSOCIATES, INC.
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Harrison County Courthouse

Clarksburg, West Virginia



Contributing Building in Historic District

This series of renovation projects began with the appointment of a second Circuit Judge for Harrison County. A new Courtroom and Circuit Judge's Support Staff offices were created from the former County Commission offices. The Voter Registration Office was relocated to space previously used by the County Health Department.

New offices and meeting room for the County Commission were then created on another floor of the building. All Courthouse functions continued daily operation during these projects.

From these extensive renovations evolved a multi-phase window replacement program for the entire Harrison County Courthouse.

Completed in stages as funding permitted, it is a successful synthesis of enhancing the building's appearance, maintaining its historic integrity, and improving the usability and function of the interior spaces.

Project Facts

Located in Historic District

Completed: 1999-2001

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WYK ASSOCIATES, INC.
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Pocahontas County Courthouse Renovations

Marlinton, West Virginia

Historic Property renovations!

Energy Grant acquired for funding!

The Pocahontas County Commission first hired WYK & Dan Wiley Associates, Inc. to provide a needs assessment and evaluation of all the county's owned and leased administrative buildings, a total of five structures.

From the assessment / evaluation process, the commission opted to have WYK eliminate an existing stair wheelchair lift and install an elevator within the existing courthouse, replace a roof to a 1973 annex and install a new boiler in the old Sheriff's Residence/Jail Building. WYK also provided lighting upgrades to the entire courthouse. WYK assisted the county with an application for additional state Energy Grant funding earmarked for courthouses.

Upon completion of replacing the roof, which had a metal roof installed over a built up roof installed over the original built up roof, the new roof provides positive drainage, proper overflow drains and most importantly, the new insulation is keeping the interior much warmer and cooler, thus reducing operation expenses.



Project Facts

Size: 42,000 sq ft

Completed: 2009-2010

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Barbour County Courthouse

Philippi, West Virginia



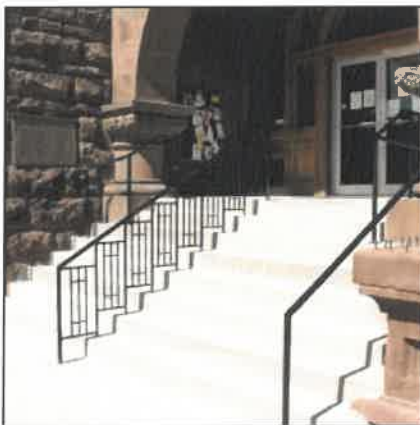
Historic Renovation

This monumental public building was designed in 1901 by Architect J. Charles Fulton of Pennsylvania. It personifies the then fashionable Romanesque Revival style. Of solid masonry construction this two-and-one-half story modified rectangular structure is set upon a raised basement.

An unusual sense of weight and mass is conveyed by a colossal offset tower and by additional prominences in the form of steeply pitched wall dormers and an octagonal turret. The floors are concrete reinforced with iron. The building's finish is magnificent coursed quarry-faced ashlar of striated Cleveland Sandstone.

Maintaining the integrity of both the design and construction of this notable building was paramount to the Barbour County Commission. Renovations to the offices of the Sheriff, Prosecutor, and Assessor accommodated the new technology and lighting requirements their work requires. Both the public and courthouse staff are now served by an elevator, accessible interior routes through the building, increased security and an exterior ramp.

The deteriorating front stairs and entry tiles were carefully redesigned by WYK to bring this grand entrance back to its previous grandeur. In addition to the main courthouse entrance, a new accessible entry was created to the first floor of the courthouse in 2018.



Project Facts

Original Architect: J. Charles Fulton

Built: 1903-1905

2003: Jail Area to Office Conversion

2005: ADA Accessibility

2009: Front Steps/Entry Restoration

2018: Accessible Entry

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Preston County Courthouse Renovation

Kingwood, West Virginia

Located in: Historic District

Addition to a National Register property

The Preston County Commission hired WYK Associates, Inc. to restore the exterior sandstone façade of this Pre-World War II Structure. WYK did extensive research and found the location of the original stone, quarried from Ohio. Given the nature of sandstone, which is very soft and porous, much of the stones around the top had deteriorated due to the failed stone parapet allowing water penetration into the stone.

WYK was involved with this project from beginning to final completion and beyond. All of the parapet stones were replaced as well as 2/3 of the upper stone façade with new stone from the original quarry. The new stone was a very close match to the original. The parapet stones were set with stainless steel pins over a waterproof flashing system. The head joints of the parapet were caulked in lieu of mortar to ensure it's performance through the expansion and contraction of the extreme weather conditions prevalent in Preston County.

The building once cleaned and repointed was coated with a breathable water repellent coating which allows moisture to escape the stone but prevents it from entering, thus reducing the freeze/thaw cycle, which is very detrimental to stone, especially sandstone.



Project Facts

Size: 8,000 S.F.

Completed: 2004

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Braxton County Courthouse Addition

Sutton, West Virginia



Historic Addition

Sutton's Historic District listed on National Register

According to county records Felix J. Baxter, a local resident, created the original Braxton Courthouse design, which was completed by Contractors Wood and Atchinson in 1882.

Our project began as an evaluation of alternatives for ADA compliance and handicapped accessibility both to and within the Courthouse. It evolved into a three story addition to the office wing, which provides a ramp for access to the building, an elevator with access to the three primary building levels, and a wheelchair lift to provide access to the Courtroom. Also included are accessible restrooms, a County Commission Meeting Room and expanded office space for the County Commission and the Assessor. The entire building received a new roof, new windows, a fire protection system and structural repairs to the original bell tower. Courthouse activities continued throughout construction.

Some of the stone elements from the original Courthouse entry are incorporated in the new access point. The Addition's materials and massing match the original building to maintain the historic fabric of the Courthouse and complete its gracious Courthouse Square.



Project Facts

Size: 3,400 sq ft

Completed: 2003

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Taylor County Courthouse Restoration Grafton, West Virginia

Preserving and Restoring! Taylor County Courthouse

The Taylor County Courthouse was built in 1880 with an addition built in 1890. WYK worked closely with SHPO to update the front entrance to meet Secretary of Interior Standards guidelines and create a seamless sidewalk / streetscape to the end of the block. WYK also worked closely with the County Administrator to replace the sidewalk and railings adjacent to the courthouse building.



Original



New

Project Facts

Size: 12,000 s.f.

Completed: 2017

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Upshur County Courthouse Chimney & Roof Restoration Buckhannon, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Historic Restoration

Designed by Architect Harrison Albright, the Upshur County Courthouse was built sometime between 1899 and 1910. The scope of work included metal roof shingle and flashing replacement around the dome and the restoration of two brick chimneys on the rear of the building. After a structural inspection was performed, however, minor repairs to the steel structure were added.

The existing metal shingles, especially around the dome, were in poor condition showing various stages of corrosion. New metal shingles were chosen to match the style, shape, and color of the existing shingles. All roof planes intersecting the dome received new metal shingles and flashing over an ice and water shield underlayment. The existing shingles on the non-intersecting planes of the roof were cleaned and coated with a fibered aluminum roof coating to match. Permanent roof anchors with added reinforced structure were added to the center ridge of the front gable and main roof.

The existing brick chimneys had been rebuilt throughout the years and showed signs of significant deterioration. Due to their poor condition, the chimneys were rebuilt from the roof up. Brick and mortar were chosen to match the rough, hand-formed brick on the back wall of the courthouse. The chimneys were rebuilt to match the width and height of the existing chimneys. Limestone coping and stainless steel metal caps were used to top off the chimneys allowing them to vent while keeping animals and rain out.



Project Facts

Original Architect: Harrison Albright

Built: 1899 - 1910

Size: 8,400 s.f.

2016: Roof & Chimney Restoration

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Tyler County Courthouse Restoration Middlebourne, West Virginia

Updating and Preserving! Tyler County Courthouse

The Tyler County Courthouse was originally built in 1920 and designed by architects E.C.S. Holmboe and Mr. Pogue of Clarksburg. WYK is most excited to contribute to the Clarksburg legacy of excellence with the renovations to this historic courthouse. WYK is currently replacing the windows with new energy efficient ones that match the existing profiles, materials, and colors in order to comply with historic preservation guidelines. This is Phase 1 of multiple interior and code compliant upgrades to the century old icon in the community. ADA compliant upgrades and a new interior vestibule have also been added to the front entrance of the courthouse.

WYK was initially hired by the Tyler County Commission to provide an overall assembly of the courthouse and adjacent historic jail / sheriff's residence building, now housing the county's 911 and Sheriff's departments.

The commissions first priority was to replace the existing windows and doors with historically accurate, energy efficient ones. This project completed in May of 2018. WYK is currently working on a masonry restoration bid package for the courthouse proper as well as the adjacent jail building.



Project Facts

Size: 15,000 s.f.

Completed: May 2018

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Gassaway Depot

Gassaway, West Virginia



Phasing process to perfection

WYK Associates, Inc. was hired by the Gassaway Depot Restoration Committee in collaboration with the Town of Gassaway to assist with securing the building envelope of the building, after they obtained a grant from the West Virginia Department of Transportation. This two story structure has had many decades of neglect. Years of water infiltration through the basement walls has deteriorated secondary interior load bearing walls. WYK made many site visits to the site and documented the existing conditions. The exterior masonry of the building has been completely restored and the basement is stabilized.

The intended use for this adaptive re-use project is to have a town museum on the second floor and use the first floor for civic events.

The Town of Gassaway and the Park Commission is currently in the process of seeking WYK's services to design a master plan for the depot building and the adjacent City Park. These two Civic Spaces will work harmoniously together forming a strong central hub for this quaint little town.

Project Facts

Size: 6,300 s.f.

Completed: Phase I - 2013

Completed: Phase II - Spring 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia

Historic property brought back to life!

Local theatre to revive downtown

The Robinson Grand Performing Arts Center is comprised of several different layers of classifications, including restoration, rehabilitation, renovations and additions. The 45,000 S.F. project included the restoring of the building's exterior masonry, updating the performance hall to seat over 1,000 guests, adding all new HVAC, finishes, electrical, sound, stage rigging, plumbing, complete roof replacement, concessions, restrooms, stage curtains, lighting, sound systems, dressing rooms, LED lighting, a barrel vaulted ballroom, a multi-purpose educational center, caterer's and preparation kitchens, circular bar, two new elevators, a loading dock and state-of-the-art marquee as well as structural enhancements throughout the building.

The City of Clarksburg purchased the building in April of 2014 and hired WYK in June of 2014 to begin the conceptual design process. WYK worked closely with the WV State Historic Preservation Office and the Owner's tax credit Consultants from the very beginning stages of design. A large portion of this project focused on conducting an ADA / building code assessment and designing the proper solutions. These included: ADA compliant restrooms, a new elevator, and the creation of new accessible routes throughout the center, which has 15 different levels.

The project was ultimately awarded \$6.5 million in state and federal historic and new market tax credits. Other awards the Robinson Grand received include the 2018 Excellence in Construction Award from the Associated Builders and Contractors, Inc. West Virginia Chapter. The project was completed in October of 2018.



Awards:

2018 Project of the Year by the Exponent Telegram
WV Municipal League All Star Community Award
WV Contractors Association Award (March-Westin)
(2) AIAWV Awards

2019 Community Affordable Housing Equity Corp
(CAHEC) Outstanding Community Impact Award
2019 Historic Preservation Award for Downtown
Preservation



WYK ASSOCIATES, INC.
ARCHITECTURE · PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia



Original Lobby



New Lobby



Original Second Floor Lobby



New Second Floor Lobby and Bar



Original Ballroom



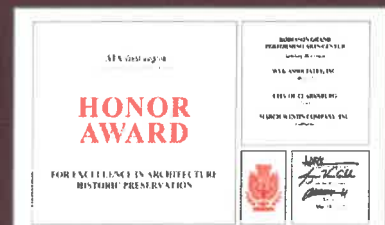
New Ballroom

Project Facts

Original Bldg: 1913
Theatre Fire: May 1939
Rebuilt: December 1939
Closed: 2000
Bought by City: 2014
Renovation Completed: 2018
45,000 Square Feet

Project Partners

www.wykarchitects.com
www.aurora-llc.com/
www.studioilighting.com
www.casstruceng.com
www.wrldesign.com
www.zdsdesign.com
www.pcscmservices.com



Winner of Two AIA WV 2019
Design Awards



WYK ASSOCIATES, INC.
ARCHITECTURE+PLANNING

Salem International University Nursing Lab Salem, West Virginia

Nursing Program re-vamp!

Laboratory & Classroom Renovation boosts attendance

Salem International University is located in North Central West Virginia. Formerly Salem College, this institution brought back a very much missed RN nursing program to the area. This new state-of-the-art facility houses two mock up hospital rooms, a nurses' station and SMART classroom technologies as well as the main corridor renovation and new ADA restrooms.

This project was as design-build and the total design / construction period was only 8 weeks!

The scope of this project included new ceilings, lighting, HVAC modifications and the addition of casework and bathrooms with ADA showers between each hospital room. All of the finishes were selected with low maintenance and sanitation in mind to withstand the test of time for future generations of faculty and students to use. Large windows were added for observers to stand in the corridor and view the education in progress within the "hospital" rooms without disrupting the classrooms.



Project Facts

Size: 4,000 s.f.

Completed: 2010

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Physician's Office Building 4th Floor Renovation

Bridgeport, West Virginia

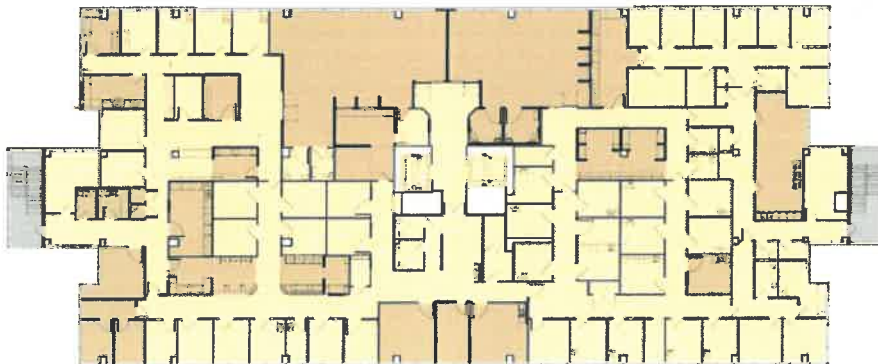


Good space, good health

Always a step ahead.

WYK Associates, Inc. was asked to partially re-design the 4th floor of the Physician's Office Building for the United Hospital Center. Great care was taken to document all the existing casework and doors to insure that nothing was demolished that could be reused in other locations. WYK Associates, Inc. was asked to enhance the acoustical properties of the spaces as much as possible to comply with the most current HIPAA and "Guidelines for Design and Construction of Health Care Facilities" regulations.

All the new ceiling tiles and lighting fixtures have been specified to match the existing. New carpet throughout, and new floor tiles along with a soothing color palette to coordinate with the hospital's standards.



Project Facts

Size: 20,000 sq ft

Completed: 2015

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Pressley Ridge Dormitories / Dining Hall

Clarksburg, West Virginia

Housing and dining for youth

Amenities for adolescents

These two housing facilities were designed for Kappa Sigma Pi of WV, who leases these properties to Pressley Ridge Schools of Northern West Virginia. One building houses male, and the other houses female, special needs students for long term residential care.

Each unit accommodates 10 to 12 students with 6 double bedrooms and a communal bathroom. A day room and training kitchen greet those entering the buildings. Additionally each unit provides office space and storage, three bedrooms and a separate bathroom for staff/counselors.

WYK also designed the two story kitchen/cafeteria/dormitory building in the heart of the campus. This new structure was needed due to overcrowding of the existing dining facility. It offers a state-of-the-art kitchen and an abundance of natural daylight which floods the dining hall. Construction was just completed in the Summer of 2009.

The design intent was to keep the buildings to a residential scale to help the residents have a "sense of home" in lieu of an institutional type structure. This was accomplished by the use of brick, pitched roofs, standard double hung windows and a covered porch placed at each end of the structures.



Project Facts

Size: 31,800 sq ft (total for all 3)

Completed: 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Gore Building Build-Out

Clarksburg, West Virginia



Historic building to provide upscale living in Clarksburg !

The Gore Hotel, located on West Pike and South Second Streets in downtown Clarksburg, served originally as a prestigist hotel in the 1920's It was built in 1913 by Truman E. Gore and Howard M. Gore, Governor of West Virginia and U.S. Secretary of Agriculture, respectively.

The 3rd, 4th, and 5th floors are being rehabilitated from multiple small hotel type rooms into seven seperate luxury apartments per floor with one and two bedroom options.

The inside of the exterior walls have been stripped of their orginal plaster and will be cleaned and sealed to leave a unique texture and feel to the apartments. The living areas will have laminate flooring while the bathrooms will have ceramic tile.

A new, large elevator and shaft is being installed to accomodate all levels of the building. Each floor will have a common area for residents to mix and socialize.



Project Facts

Size: 40,000 sq ft

Completed: Spring 2016

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Family Medical Center for United Hospital Center Clarksburg, West Virginia

Clarksburg Family Medicine

United Hospital Center hired WYK Associates, Inc. to re-design three 1980's office suites in the Clarksburg Clinic into the new family 8,200 square foot medical practice of Drs. Bowles, Rhodes and Signzon. This renovation was a total demolition and rebuild of the former physical therapy suite .

Featuring acoustical designs complying with the most recent HIPAA and 2010 "Guidelines for Design and Construction of Health Care Facilities" regulations, meeting all of the clients needs for speech privacy and reduction of sound transmission.

The renovation included office and exam rooms, as well as clinical and circulation spaces. Other features of this renovation are upgrades to the mechanical and electrical and plumbing systems. new layout and finishes, as well as updated fire protection systems.



Project Facts

Size: 8,200 sq ft

Completed: 2017

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Circleville School

Pendleton County, West Virginia



Teaching Community

Learning by adaptive reuse

Working with a variety of funding sources, the non-profit CHS Preservation Inc. contacted WYK Associates to help them maintain this landmark in their community as a safe and attractive center for group activities. Within a tightly defined construction schedule, the building's life safety and electrical systems were upgraded to current code requirements. A new banquet kitchen was installed. And the exterior woodwork was repaired and repainted using the guidelines and assistance of the State Historic Preservation Office.

Funded by the Works Progress Administration, this Circleville School was constructed in 1938 to replicate a 1929 Georgian Revival-style building, which had been destroyed by fire. Its classically-derived main façade features four pilasters, a pediment, and a domed cupola. A broken pediment with urn-and-swag motif above a fanlight decorates the main double-door entrance. Enlarged wings and several rear additions expanded the 1938 facility from the 1929 plan. Circleville School was closed in 1998, as the County's schools were consolidated. Yet today Holmboe's building remains a focal point for this Pendleton County community.

This project also focused on bringing the building up to meet modern building codes and ADA guidelines.

Project Facts

Size: 66,000 sq ft

Completed: 2003

Historical Register: April 4, 2000

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia

Education > Fairmont State University > Frank & Jane Gabor Folklife Center

The Folklife Center - A Success Story

Living history carefully updated

Originally a barn, this historic building is at Fairmont State University's new main campus entrance. This charming stone building was previously used as apartments and storage.

It is now the home of Fairmont State University's West Virginia Folklife Program and also serves the school as a Visitor's Center.

By removing the third floor and gutting the second floor plan, WYK designed a two story day lit gallery space on the existing second floor. Remedial structural repairs were needed to brace the existing roof structure once the third floor was removed.

The first floor houses offices, classrooms and informal gathering spaces. An elevator, replacement of 72 windows and doors, natural and specialized lighting, sprinkler system and HVAC systems have all been integrated into this structure.

By marrying the historic character of the building with upscale contemporary features and educational elements, the Folklife Center welcomes alumni, students, faculty and the general public to share many public functions.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Frank & Jane Gabor WV Folklife Center

Fairmont State University, Fairmont, West Virginia

Education > Fairmont State University > Frank & Jane Gabor Folklife Center



Structural update in progress (Third Floor still present)

Project Facts

Phase I: Completed 2009

Phase II: Completed 2010

Phase III: Completed 2011

Project Links

www.wykarchitects.com

www.fairmontstate.edu

www.pierpont.edu/folklife/



ATA West Virginia

This project won two awards - the **2013 Merit Award for Achievement in Architecture Design** in the categories **Interior and Exterior**.

We are thankful of the recognition and like to acknowledge the team effort leading to the project's success.



The Colonial Appartments



**The Frank and Jane Gabor
West Virginia Folklife Center**

1201 Locust Avenue
Fairmont, WV 26554

(304) 367-4403

wvfolklife@fairmontstate.edu
wvfolklife@pierpont.edu



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MCA South Facility Upgrades Design
RESUMES



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

James Swiger

www.wykarchitects.com > About WYK > Team



James B. Swiger AIA, NCARB, LEED AP BD+C

President/Principal-In-Charge

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326 Office

304-677-3373 Cell

304-623-9858 Fax

www.wykarchitects.com

james@wykarchitects.com

Memberships

WV AIA Board of Directors
2007 - 2009



He is a Harrison County native involved with several community and professional organizations.

James has gained broad experience in both the private and public sectors of the construction / design industry. His completed work reflects a variety of projects with values ranging from thousands of dollars to over \$22 million.

EDUCATION

5-Year Bachelor of Architecture, 1996
University of Tennessee, Knoxville, TN
NAAB Accredited University

ARCHITECTURAL REGISTRATION

West Virginia (██████████)
Virginia (██████████)
Pennsylvania (██████████)
Ohio (██████████)
Maryland (██████████)
Kentucky (██████████)
National Council of Architects (██████████)

HONORS AND AWARDS

2019 "Sharp Shooter" WV Executive Magazine

2019 AIA-WV Honor Award for Excellence in Architecture - Historic Preservation / AIA-WV Craftsmanship Award for Excellence in Architectural Detail and Craftsmanship; Robinson Grand PAC, Clarksburg, WV

2015 Clarksburg Uptown Business Member of the Year

2015 Campaign Chair - United Way of Harrison County, Inc.

2015 Harrison County Chamber of Commerce Education Committee Chair

2015 "Young Gun" WV Executive Magazine

2013 AIA-WV Merit Award for Achievement in Architecture Design - Unbuilt: Shinnston Community Center, Shinnston, WV

2013 AIA-WV Merit Award for Achievement in Architecture Design; Fairmont State University- Frank and Jane Gabor Folklife Center, Fairmont, WV - Interior and Exterior

Energy Star Certification, Elkins Middle School, Elkins, WV

2010-11 Cambridge Who's Who Member

2009 West Virginia Kiwanis District Governor's Award for "Promoting Membership Growth"

2008 Volunteer of the Year - Harrison County Chamber of Commerce

2008 Selected "Generation Next: 40 Under 40" by the West Virginia State Journal

2008 Strathmore's Who's Who Worldwide Recipient

2008 AIA-WV Merit Award for Achievement in Architecture; West Pike Street Parking Facility, Clarksburg, WV (Co-Design Architect)

PROFESSIONAL AFFILIATIONS

American Institute of Architects

AIA - West Virginia

National Council of Architectural Registration Boards

Accredited Professional
U.S. Green Building Council
Building Design + Construction

USGBC-WV Chapter

League of Historic American Theatres

National Trust for Historic Preservation

NFPA – National Fire Protection Agency

ASHE - Associate Member of National Society for Healthcare Engineering

WVSHE – Associate Member of West Virginia Society for Healthcare Engineering

Affiliate Member of Builders Supply Association of West Virginia

CIVIC AFFILIATIONS

Health Access, Inc. - Board of Directors

Bi-County Nutrition, Inc. - Board Member

Clarksburg Uptown - President / Board of Directors

Bi-County Nutrition, Inc. - Board Member

Salem University - Advisory Committee to the School of Business

Central WV Corvette Club Member

Harrison County Chamber of Commerce – Board of Directors (2013-15)

United Way of Harrison County, Inc.; Board of Directors (2009-2016) - Executive Committee "Stonewall Leadership Contributor"; 2015 Campaign Chair

Kiwanis Club of Clarksburg 2008/2009 President

Kiwanis Division 3
2009/2010 Lieutenant Governor

Kiwanis Club of Clarksburg 2018 - Present Volunteer and Service Committee Chair

Salem Area Chamber of Commerce - Past Board Member

West Virginia Kiwanis District – District 3 – Past Lieutenant Governor

Harrison County Chamber of Commerce – Past Education Committee Chair

Salem Elementary School Nature/Fitness Trail – Project Manager



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley



Stephen M. Kelley **Associate AIA**

Senior Project Manager

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-623-9858 Fax

www.wykarchitects.com

stephen@wykarchitects.com

Associated Memberships



While in college, Stephen worked two years for a construction company that focused mainly on roofing and masonry work of historic homes and buildings in the Philadelphia area. After graduation he took that experience and applied it to several projects at another local architecture firm, all the while completing his profession's required Intern Development Program. He served as Senior Project Manager for the award winning Robinson Grand Performing Arts Center and numerous healthcare projects for UHC and WVU Medicine. Stephen's 20 years of experience has ranged from small house additions to multi-million dollar complex construction projects.

Stephen has gained broad experience in both the private and public sectors of the construction/design industry. He has been either the Project Designer or Project Manager in a range of projects totaling over \$35 million in value.

EDUCATION

5-Year Bachelor of Architecture, 2000
Philadelphia University
NAAB Accredited University

PROFESSIONAL AFFILIATIONS

Associate Member, American Institute of Architects (AIA), National Chapter

Associate Member, American Institute of Architects (AIA), West Virginia Chapter

CIVIC AFFILIATIONS

Salem Area Chamber of Commerce -
Past Board Member

Harrison County Development
Authority - Past Board Member

Fort New Salem Foundation -
Current Board Member

Sperry-Davis VFW Post 9151
Quartermaster 2008 - 2020
Post Commander 2020 - Present

Dept. of WV - District 3
Quartermaster (2015/2016)

Sigma Mu Fraternity Alumni,
Mu Pi Chapter

United Way of Harrison County, Inc.,
Stonewall Leadership Contributor



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Canon Fancher

www.wykarchitects.com > About WYK > Team



Canon T. Fancher
Associate AIA
LEED Green Associate
Designer / BIM Coordinator

WYK Associates, Inc.
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canon@wykarchitects.com

Associate Memberships



Canon began his career at WYK Associates, Inc. in 2016. His background includes earning a Bachelor's of Science in Architecture with a minor in general business and a Masters in Architecture from Fairmont State University and he is equipped to aid in all areas of a project, from design through completion, including client relations, schematic design, project visualization, design development, construction documents and specifications, bidding phases and construction administration. Canon also heads up the firm's residential design department, where he has worked on small additions to homes exceeding \$1.5 Million in construction.

Having grown up in north central West Virginia, Canon understands the needs and desires of small communities, and has a desire to infuse modern, contextually sensitive, and sustainable designs into the projects he works on. Knowing the importance of communication and coordination throughout a project, Canon always aims to develop positive client and consultant relationships in order to create a cohesive working environment in all phases of a project. Whether it be conceptual and schematic design, inquiries and exploration of design possibilities, conceptual visualization, drafting and Building Information Modeling utilization, 3D modeling, creation of specifications, construction administration or project support for other staff, Canon will work to meet the highest standard of production quality.

EDUCATION

Bachelor of Science in Architecture
with a Minor in General Business - 2016
Fairmont State University

Masters of Architecture - 2020
Fairmont State University

PROFESSIONAL AFFILIATIONS

American Institute of Architects (AIA), National Chapter, Associate Member

American Institute of Architects (AIA), West Virginia Chapter, Associate Member

National Council of Architectural Registration Boards (NCARB)

USGBC - LEED Green Associate

VOLUNTEER EXPERIENCE & AFFILIATIONS

United Way "Day of Action" - Annual Volunteer



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

**MCA South Facility Upgrades Design
CONSULTANTS**



**Civil & Environmental
Consultants, Inc.**





Allegheny Design Services, LLC
Morgantown, WV

ENGINEERING FOR
STRUCTURAL SYSTEMS
MECHANICAL SYSTEMS
ELECTRICAL SYSTEMS
FORENSIC INVESTIGATION

Overview

Allegheny Design Services (ADS) is a consulting engineering firm specializing in structural and MEP building design and building analysis. Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service engineering support. ADS provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction documents and specifications, and construction administration.

ADS' experience in Design and Project Management includes:

- Commercial Facilities
- Industrial Facilities
- Institutional Facilities
- Educational Facilities

ADS was established by David Simpson, PE, MBA, in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. In 2009 MEP engineering services were added, led by Mike Chancey, PE. ADS utilizes a combination of office technology and a motivated staff to deliver projects typically up to \$40 million in construction value. Our clients include architects, contractors, developers, attorneys and insurance companies.

ADS currently utilizes the latest engineering design and BIM software for the development of project work.

Value Added Services

Our company strives to provide efficient, quality engineering services that serve both the needs of the client as well as the needs of the design team. We achieve this level of service by leveraging our extensive project experience with a work-flow built upon the cohesive integration of 3D Revit modeling and the latest analysis software. This integration allows us to produce the highest quality designs in the timeframe needed for successful design-build projects. Our staff is comprised of multiple licensed Professional Engineers.



Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH WYK ASSOCIATES, INC.**

**Total Dental - New Multi Tenant
Building for PCE,LLC
Bridgeport, WV**

**This project was completed in 2014 for
approximately \$1.5 million.**



**Harrison—Taylor 911 Center
Clarksburg, WV**

Design of a New Public Safety Facility—
Construction should start in the spring of
2016 on a new emergency dispatch center for
Harrison and Taylor counties. The two-story,
20,000 square foot facility is to be built on the
Quarry property in Summit Park. The project
will also include a 10,000 square foot build-
ing to house a radio maintenance garage and a
shelter-in-place/emergency staging area. The
project should take 12-18 months to com-
plete, depending on the weather. Hopefully,
construction will start in May or June at the
latest. Allegheny Design will be working
with WYK Associates to provide the structur-
al,
mechanical, plumbing, and electrical engi-
neering for the project.





Allegheny
Design Services
Consulting Engineers

ALLEGHENY DESIGN SERVICES' EXPERIENCE TEAMING WITH WYK

Bank of Gassaway Flatwoods, WV

ADS was a consultant to WYK Associates, Inc. for the Bank of Gassaway. Building consisted of steel framing with an open skylight and canopy center lobby. It was completed in 2008 at a cost of \$2 Million.



Dominion Exploration Building Addition Jane Lew, WV

ADS was a consultant to WYK Associates, Inc. for the Dominion Exploration Building Addition. The addition is a 10,500 square foot addition completed in 2008 for \$1.5 Million.



Bridgeport Public Safety Building Bridgeport, WV

ADS was a consultant to WYK Associates, Inc. for the Bridgeport Public Safety Substation. The 2 story 15,000 square foot structure houses the Bridgeport Fire and Police Departments. It was completed in 2009 at a cost of \$3.2 Million.





Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH WYK ASSOCIATES, INC.**

**Frank & Jane Gabor West Virginia
Folklife Center at Fairmont State Uni-
versity
Fairmont, WV**

ADS was a consultant to WYK Associates, Inc. for the Folklife Center. This charming stone building will become the headquarters of Fairmont State University's Folklife Program and a Visitor's Center. Completed in 2011 for \$1.3 Million.



**Pocahontas County Courthouse
Marlinton, WV**

ADS was a consultant to WYK Associates, Inc. for the Pocahontas County Courthouse. Renovations were made for an Elevator Addition and an Equipment Room Addition. In 2012 this renovation is expected to be completed for approximately \$1 Million.





Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH WYK ASSOCIATES, INC.**

**Parish Center
Immaculate Conception Church
Clarksburg, WV**

The new 15,000 square foot Parish Center is located directly behind the Immaculate Conception Church. This facility houses the church offices, a large banquet room with a capacity of 350, commercial kitchen, meeting spaces and smaller intimate gathering spaces. The center spine of the building is spacious and capped with translucent panels. Masonry Exterior. This project was completed in 2014 for approximately \$3.4 million.



**West Union Bank—Salem
Branch
Salem, WV**

A New Drive-Thru Bank Facility with Steel Framing and Shallow Concrete Foundations. This project was completed in 2015 for approximately \$500,000.





Allegheny
Design Services
Consulting Engineers

**ALLEGHENY DESIGN SERVICES' EXPERIENCE
TEAMING WITH WYK ASSOCIATES, INC.**

**West Union Bank
Clarksburg, WV**

ADS was a consultant to WYK Associates, Inc. for the West Union Bank. The bank branch is a 9,000 square foot facility completed in 2005 for \$1.5 Million. It received a Merit Award from AIA West Virginia



**Charles Point Exxon Travel Center
Bridgeport, WV**

ADS was a consultant to WYK Associates, Inc. for the Charles Point Exxon Travel Center. The building houses a restaurant, convenience mart, and a fuel station. It was completed in 2007 at a cost of \$750,000.



**Cutlip Christie Office Complex
Clarksburg, WV**

ADS was a consultant to WYK Associates, Inc. for the Cutlip Christie Office Complex. The 12,000 square foot office building was completed in 2007 for \$2.1 Million.





PROJECT PROFILE

WVU Weight Room Expansion Morgantown, WV



PROJECT ARCHITECT:
STRUCTURAL ENGINEER:
CONTRACTOR:

Heery International, Inc., Atlanta, GA
Allegheny Design Services, LLC, Morgantown, WV
March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

- Relocation of Stair Access
- Expansion of Weight Room
- Replace Concrete Slab-on-Grade Floors

PROJECT VALUE: \$1.8 Million

PROJECT COMPLETION: 2013



PROJECT PROFILE

West Virginia University Basketball Practice Facility Morgantown, WV



STRUCTURAL ENGINEER:
CONTRACTOR:

Allegheny Design Services, Morgantown, WV
Massaro Corporation, Pittsburgh, PA

PROJECT SCOPE:

- Men's & Women's Varsity Basketball Practice Facility
- Meeting & Training Rooms
- WVU Basketball Hall of Fame

PROJECT VALUE:

\$23 Million

ESTIMATED PROJECT COMPLETION:

2012



PROJECT PROFILE

WVU Milan Puskar Stadium Renovations Morgantown, WV



STRUCTURAL ENGINEER:
CONTRACTOR:

ADS Sports & Recreation, Morgantown, WV
Panasonic Corporation of North America

PROJECT SCOPE:

- The renovations include the addition of required ADA seating around the perimeter of the stadium; new luxury box seating complete with in-box heaters, TVs, and speakers; a 25% increase in available concession windows and restroom facilities; in-building storage for removable seat back sales; and a team store space for purchasing WVU merchandise. Also included in the renovations are an increase in the available gates into the stadium with new entrances added to both the north and south sides of the stadium. The east side of the renovation project will be open for the upcoming 2016 season and the west side plans to open in time for the 2017 season

PROJECT COMPLETION: 2016



PROJECT

Mylan Park Aquatic and Track Center Morgantown, WV



STRUCTURAL ENGINEER:
CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV
March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

ADS Sports & Recreation is providing the structural engineering design for the Morgantown Track and Aquatic Center. The facility will consist of 50 meter competition pool, diving tower, therapeutic pool, public water park pool, classrooms, fitness rooms and concessions And a NCAA regulation running track and pavilion. The project is estimated to cost between \$25 - \$30 million. Construction is slated to begin in Spring 2017. As a Design Build project cost control was one of the primary goals during the design process. Multiple designs were evaluated and reviewed. Value engineering redesign was able to accomplish the budget goals. Constructability was reviewed with the contractor prior to final design. The entire project was then documented in REVIT thus providing the first take on constructability. During construction continued communication with the Contractor will be able to respond to field conditions thus giving opportunities for further cost reductions.

PROJECT VAULE: \$25 - \$30 Million

References: Jamie Ridgeway, VP March -Westin Company
Paul Walker, Paradigm Architecture



PROJECT PROFILE

Mylan Park Pro Performance



STRUCTURAL ENGINEER:

ADS Sports & Recreation, Morgantown, WV
Consulting Engineers

CONTRACTOR:

PROJECT SCOPE:

- Pro Performance RX's original location, sitting atop Mylan Park in Morgantown, West Virginia, has been a fixture in Morgantown for years, with a convenient location just off I-79. The facility was developed in 2006 after the Lynch family expanded their existing recreational facility to fulfill a growing need for a new sports center in the Morgantown area.
- With its personal training, state-of-the-art equipment, and exquisite facilities, including the 50,000 square foot Field Turf arena (boasting an impressive 70 ft. ceiling that allows for all types of year round indoor sports activity), Pro Performance's Mylan Park facility has gained not only regional but national attention for the quality of its services, trainers and equipment.

PROJECT COMPLETION:

2006



Allegheny
Design Services
Consulting Engineers

PROJECT PROFILE

Laurel Highlands Classroom and Gymnasium Addition Uniontown, PA



STRUCTURAL ENGINEER: Allegheny Design Services, Morgantown, WV

PROJECT SCOPE:

- 10,000 Classroom Addition
- Full Court Gymnasium Addition
- Construction of New Main Entry

PROJECT VALUE: \$5 Million

PROJECT COMPLETION: 1999



Allegheny
Design Services
Consulting Engineers

PROJECT PROFILE

Fairmont State University Feaster Center Addition



STRUCTURAL ENGINEER:
CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV
Lombardi Development Company, Follansbee, WV

PROJECT SCOPE:

- Entrance Addition to Existing Facility
- Multi-Story Steel & Concrete Structure

PROJECT VALUE: \$1.1 Million

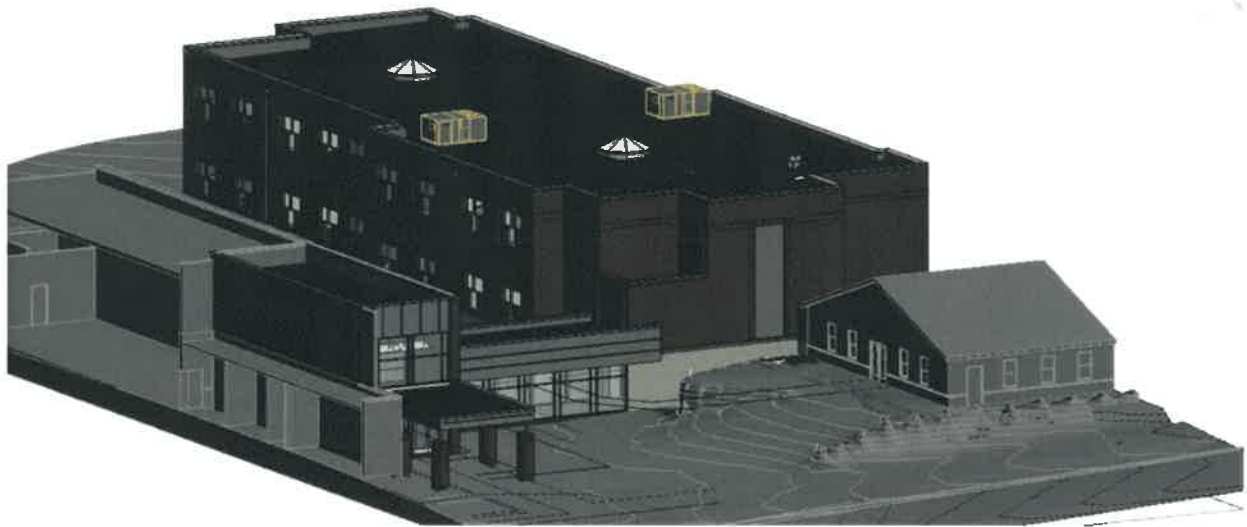
PROJECT COMPLETION: 2009



Allegheny
Design Services
Consulting Engineers

PROJECT PROFILE

Brookhaven School Addition Brookhaven, WV



STRUCTURAL ENGINEER: Allegheny Design Services, LLC, Morgantown, WV
CONTRACTOR: City Construction Company, Clarksburg, WV

PROJECT SCOPE:
Construction of a 40,000 sq. ft. addition to the existing school. Addition includes two floors of additional classroom space connected to a newly renovated entrance.

PROJECT VAULE: 10 Million

PROJECT COMPLETION: 2017





DAVID R. SIMPSON, PE, SECB, MBA
PRESIDENT / PRINCIPAL ENGINEER

Education:

West Virginia Institute of Technology - B.S. Civil Engineering
West Virginia University - Masters Business Administration
West Virginia State College - Architectural Technology Courses

Professional Registrations:

Year first registered: 1984
West Virginia, Pennsylvania, Maryland, Virginia, Florida, District of Columbia, North Carolina, South Carolina, Georgia, Ohio, Structural Engineering Certification Board and National Council of Examiners for Engineering and Surveying

Professional Memberships:

American Society of Civil Engineers, Structural Engineering Institute, Charter Member, American Concrete Institute, American Institute of Architects – West Virginia Chapter, American Institute of Steel Construction, Inc., American Iron and Steel Institute Member, Associated Builders & Contractors (ABC), National Academy of Forensic Engineers

Professional Experience:

Responsible for strategic management, marketing, quality control, personnel development, business development, project management and design at Allegheny Design Services. Experience includes over 32 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

Experience Record:

Allegheny Design Services, LLC, President,	May 2002 to Present
R.M. Gensert and Associates, Vice President,	August 1998 to May 2002
WVU, Assoc. Director of Planning, Design & Construction	August 1988 to August 1998
Simpson Engineering, Owner	August 1988 to August 1998
CECO Buildings Division, Senior Structural Engineer	April 1985 to August 1988
Rockwell International, Facility Structural Engineer	March 1982 to April 1985
Bellard Ladner & Assoc., Staff Structural Engineer	Sept. 1981 to March 1982
PPG Industries, Facility Structural Engineer	January 1980 to Sept. 1981

Project Experience Includes:

Morgantown Event and Conference Center, Morgantown, WV
Phipps Conservatory Addition, Pittsburgh, PA
Waterfront Hotel and Conference Center, Morgantown, WV
WVU Basketball Practice Facility
WVU Mountaineer Field North Luxury Suites
UPMC Hillman Cancer Center
William Sharpe Hospital Addition
Chestnut Ridge Church
University of Pittsburgh Bio Medical Tower
Glade Springs Hotel & Conference Center
Fairmont State University Parking Garage



Education:

University of Pittsburgh - B.S. Civil Engineering
West Virginia University - Master of Business Administration

Professional Registrations:

Professional Engineer – Virginia, West Virginia, Pennsylvania, Tennessee, Indiana, Louisiana, Illinois and California
NCEES Record Holder

Professional Memberships:

Board President of Children’s Discovery Museum at WVU
American Society of Civil Engineers - Past Branch President
Richmond Joint Engineers Council - Past Council Chairman
Structural Engineering Institute - Member

Continuing Education:

Blodgett’s Welding Design Seminar – April 2013 – Cleveland, OH
Simpson Strong-Tie Continuous Load Paths in Wood Structures – November 2011 – Charlottesville, VA
Kaplan 28 Hour SE Exam Review Course – August 2011 – Richmond, VA
Emerging Leaders Alliance Workshop – November 2010 – Denver, CO
OSHA 10 Hour Safety Course for Construction Personnel – April 2006 – Alexandria, VA
SE University multiple structural technical training webinars.

Professional Experience:

Responsibilities at Allegheny Design Services include project management and structural design. Professional experience is comprised of a wide variety of roles as both a designer and contractor. Past accomplishments include a mix of residential, commercial, industrial, military and government facilities utilizing all major building elements including steel, concrete, masonry, wood, and aluminum. Experience includes domestic as well as international projects for a variety of public and private clients from the following assignments:

Experience Record:

Allegheny Design Services, LLC, Sr. Structural Engineer	June 2012 to Present
Austin Brockenbrough and Associates, Structural Engineer	March 2008 to June 2012
McKinney and Company, Civil Engineer	March 2007 to March 2008
American Bridge Company, Field Engineer	May 2005 to March 2007

Project Experience Includes:

Project experience (past and present) includes:

Puskar Center Auditorium Expansion, West Virginia University, Morgantown, WV
White Oaks Office Development Building II, Bridgeport, WV
College Park Apartments, Morgantown, WV
University Park Dormitory, West Virginia University, Morgantown, WV
Brownsville Marine Product Plant Upgrade and Repairs, Brownsville, PA
High Bridge Trail State Park Pedestrian Bridges, Prince Edward County, Virginia
Observation Platform, Midlothian Mines Park, Chesterfield County, Virginia
Fuel System & Facility Upgrades, Fort Drum, NY
Eppington Plantation Restoration and Structural Stabilization, Chesterfield County, Virginia
Old City Hall Plaza Replacement, Richmond, Virginia
Woodrow Wilson Bascule Replacement, Alexandria, Virginia
Monongalia County Ball Park, Morgantown, WV
Nashville Sound Scoreboard, Nashville, TN
Indianapolis 500 Sign Upgrade
Milan Puskar Stadium North End Renovations



Education:

West Virginia University - B.S. Civil Engineering

Professional Registrations:

Professional Engineer – West Virginia, Pennsylvania, Maryland, Kentucky, Alabama, Nebraska and Mississippi.

Professional Memberships:

Member of AISC
Associate Member of ASCE

Continuing Education:

WVU Steel Design—Fall 2007
AISC - Façade Attachments to Steel Frames - September 20, 2007
ASCE - Reinforced Masonry: Design and Construction - November 8, 2007
TSN - Cold-Formed Steel Seminar – Load Bearing and Curtain Wall Systems - December 4, 2008
Lincoln Electric Co. - Blodgett's Welding Design Seminar - October 13-16, 2009
Steel Camp – November 4-5, 2010
The New 14th Edition Steel Manual – October 25, 2011
ASCE-Design and Renovation of Wood Structures - October 2012
SE University multiple structural technical training webinars.
The MGI Management Institute—Successful Marketing of Engineering Services 2015
Steel Camp—March 25-28, 2015

Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control and field engineering.

Experience Record:

Allegheny Design Services, LLC, Senior Structural Engineer

June 2007 to Present

Project Experience Includes:

University Park Mixed Use Building, Morgantown, WV
White Oaks Hawthorn Suites, Bridgeport, WV
BFS Suncrest, Morgantown, WV
Pikewood Creative Addition and Renovation, Morgantown, WV
GSD Fairmont, Fairmont, WV
Bridgeport Public Safety Substation, Bridgeport, WV
Canaan Valley Institute, Davis, WV
Charles Pointe BFS, Bridgeport, WV
Fairmont AFRC, Fairmont, WV
Gabriel Brothers Renovation, Clarksburg, WV
Genesis Youth Crisis Center, Clarksburg, WV
Goshen Baptist Church, Morgantown, WV
GSA DOE, Morgantown, WV
ICC Parish Center, Clarksburg, WV
Mason Dixon, Bridgeport, WV
GSA, Charleston, WV
Progress Centre 2, Bridgeport, WV
WVU Child Development, Morgantown, WV
White Oaks Progress Center, Bridgeport, WV
Thrasher Office Building, Bridgeport, WV
WVU Greenhouse Building, Morgantown, WV
Courtyard Marriott– University Towne Center, Morgantown, WV
University Place Parking Garage, Morgantown, WV



Education:

West Virginia University - Morgantown, WV - B.S. Civil Engineering
West Virginia University - Morgantown, WV - M.S. Civil Engineering

Professional Registrations:

West Virginia EIT Certification

Professional Memberships:

American Society of Civil Engineers

Continuing Education:

SE University multiple structural technical training webinars.

Professional Experience:

Graduate Research Assistant, WVU June 2014 - May 2016
Instrumented an eSpan140 demonstration bridge in Jesup, Iowa with strain gages
Applied an AASHTO HL-93 vehicular live load to the bridge while collecting
strain measurements to determine if the design moment capacity was met.

Graduate Teaching Assistant, WVU August 2014 - May 2016

Steel Design, Structural Analysis II, and Structural Analysis I
Assisted the professor with creating homework's and tests, along with solutions
and as well as grading all assignments
Provided out-of-class assistance to students having difficulties with course content

Undergraduate Student Research Assistant, WVU Summer 2013
Constructed wooden frame and poured concrete deck for simply supported cold
press braked steel tub girder in WVU's structures lab under the supervision of
my advisor / professor
Drew AutoCAD layouts of the girder and supports

Experience Record:

Allegheny Design Services, LLC, Jr. Structural Engineer May 2016 to Present

Project Experience Includes:

Sabraton Popeye's, Morgantown, WV
Morgantown Energy Platforms, Morgantown, WV
Preston Machine Hopper Analysis, Kingwood, WV
Mylan Suburban Lab Renovation, Morgantown, WV
Jewel City Church, Shinnston, WV
Spencer USPS, Spenser, WV
Brownsville Marine Rack Analysis, Brownsville, PA
HP Hood Building Addition, Winchester, VA
453 Oakland St Light Gage Design, Morgantown, WV
Woodford Oil Mezzanine, Morgantown, WV
7 Players Club Drive, Charleston, WV
WVU Coliseum Visitor Center, Morgantown, WV
Hampton Inn, Weston, WV
Keyser Block Factory, Keyser, WV
Webster County EDA, Cowen, WV





ZDS Design / Consulting Services
St. Albans, WV

ABOUT ZDS DESIGN/CONSULTING SERVICES

In 1983, Todd A. Zachwieja founded ZECO Consultants. In 1994 **ZDS** Limited Liability Company was incorporated in West Virginia using dba **ZDS** Design/Consulting Services, and was founded to provide design and consulting services.

Each new project is assigned to a principal in charge who will follow the project from inception through commissioning. **ZDS** assigns the production staff according to the nature of the project and the work force necessary to meet the schedule. The principal in charge of that project determines if consultants are needed and coordinates all areas. After bidding, a principal of **ZDS** coordinates visits to the job site regularly, all the way through the post-warranty inspection. **ZDS** believes in the team approach when providing engineering design and consulting services. We start with our client as the number one member on our team. We listen to the needs and concerns of our client and that becomes the basis for our design.

COMPANY LEGAL NAME

ZDS Limited Liability
Company dba **ZDS** Design/Consulting Services

LOCATION OF INCORPORATION

West Virginia

FOUNDERS

Todd A. Zachwieja, P.E., C.E.O.
Lori L. Zachwieja, C.P.A., C.F.O.
Daniel H. Kim, Ph.D.

OFFICE

135 Corporate Center Drive / Suite 532
Scott Depot, WV 25560

EMPLOYEES

ZDS currently employs design professionals covering all aspects of our services.



CLIENTS & EXPERIENCE

- ◆ Charleston Area Medical Center
- ◆ Charleston National Bank/Chase
- ◆ Coal Heritage Discovery Center
- ◆ Concord University Nick J. Rahall II Technology Ctr.
- ◆ District 2 Headquarters' Building HVAC Renovations
- ◆ General Motors North America Operations
- ◆ Harvard University Arboretum
- ◆ Hopemont Hospital, WVDHHR
- ◆ IMC Data Center
- ◆ Jackie Withrow Hospital, WVDHHR
- ◆ Kanawha County Commission Courthouse & Judicial Annex
- ◆ Kanawha County Metro 911
- ◆ Laidley Towers
- ◆ Marshall University Harris Hall & Smith Hall
- ◆ Meadowbrook & Burnsville Rest Areas, WVDOT
- ◆ Mercer County Courthouse
- ◆ Pendleton County Courthouse & Annex
- ◆ Pocahontas County Community Center
- ◆ Robinson Grand Performing Arts Theatre
- ◆ Redmond House, WVDOT
- ◆ St. Patrick Church Renovations
- ◆ Tyler County Commission Courthouse
- ◆ Tucker County Courthouse
- ◆ University of Charleston Innovation Center
- ◆ Veterans Administration
- ◆ Webster County Development Authority
- ◆ White Sulphur Springs Welcome Center
- ◆ William R. Sharpe, Jr. Hospital, WVDHHR
- ◆ World Trade Center, MD
- ◆ WV Air National Guard
- ◆ WV Army National Guard
- ◆ WV Children's Home, WVDHHR
- ◆ WV Dept. of Education - State wide PreK-12 Schools
- ◆ WV Division of Energy
- ◆ WV Dept. of Transportation
- ◆ WV Dept. of Health & Human Resources
- ◆ WV Division of Culture and History Renovations
- ◆ WV Division of Protective Services
- ◆ WV General Services Division
- ◆ WV Higher Education Policy Commission
- ◆ WV Parkways Authority HVAC Renovations
- ◆ WVU Stewart Hall & Wise Library
- ◆ WVU Tech (Montgomery Campus) Engineer Bldg.
- ◆ WVU Davis Hall
- ◆ Yeager Airport

ZDS provides comprehensive design services. We have experience and specialties in indoor air quality, energy management and commissioning, along with traditional mechanical and electrical design experience dating back as far as 1958. We offer a complete package. **ZDS** works with all levels of the client's staff: the building owner, budget supervisor, operating and maintenance staff and others impacted by the project. We recognize that the maintenance and operating staff live with the design long after the project's completion. We listen to and work with those who will continue to operate and maintain the equipment. We find that proper communication benefits the client throughout the design process and beyond.

The **ZDS** design team provides a total system evaluation for cost-effective selection, installation, and ease of maintenance for both new systems and retrofit of in-place systems. Design begins with our client. Our staff meets with our client to review their concerns, budgets and schedules. The **ZDS** design team reviews the entire picture, and ends with "A Total Design."

The **ZDS** staff has the expertise with codes and standards. We have extensive experience in conducting engineering code surveys of existing facilities. Our staff has excellent working relationships with the West Virginia Fire Marshal's Office, West Virginia Department of Education and the West Virginia School Building Authority. In addition to comprehensive Engineering services from an experienced design team, another major consideration in the selection of your engineer and design staff should be their track record.

ZDS' organization has an unbeatable, long running, and well-known track record for meeting our clients' needs, on time and within budget, with outstanding quality. **ZDS** views these characteristics as the foundation of Quality. We look forward to the opportunity to discuss our ideas with you and assist you by providing solutions for your needs with a full range of services from Planning to Commissioning.



INDOOR AIR QUALITY SERVICES



ZDS provides consulting engineering services for the indoor air quality (IAQ) environment. These services include: strategic planning for renovation and new construction projects; technical research and writing; specialized applications software development; corporate and professional training programs; publications support and fulfillment; and site-specific engineering and scientific consultation. Todd Zachwieja, **ZDS** Principal, is contributing editor for the following IAQ publications:



- Technical Review Panel for the publication of the *INvironment™ Handbook of Building Management and Indoor Air Quality*, by Chelsea Group and published for Powers Educational Services
- Technical Review Panel for the quarterly publication of the *INvironment™ Newsletter*, by Chelsea Group for Powers Educational Services
- *Ventilation for a Quality Dining Experience: A Technical Bulletin for Restaurant Owners and Managers*, released in January 1993
- *The New Horizon: Indoor Environmental Quality*, published as a supplement to an issue of *Consulting-Specifying Engineer* magazine, a trade magazine distributed to roughly 50,000 engineers
- Editorial Advisory Board member reviewing the articles of the monthly publication *INvironment™ Professional*
- Editorial Advisory Board member of *POWER PRESCRIPTIONS™ Indoor Air Quality Publication* by Electric Power Research Institute



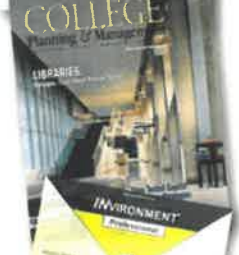
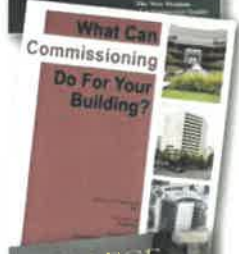
ZDS provides Indoor Air Quality (IAQ) services for major corporations, government organizations and property owners to resolve their specific facility problems:



- Resolve “sick building syndrome”
- Identify solutions to building-related illnesses due to extensive biological contamination
- Develop solutions for HVAC systems, temperature controls, equipment, operating and maintenance practices for indoor air quality
- Commission new and renovated facilities to minimize or eliminate IAQ issues before problems arise
- Develop and establish master plans as well as conduct training seminars for IAQ of schools and commercial buildings



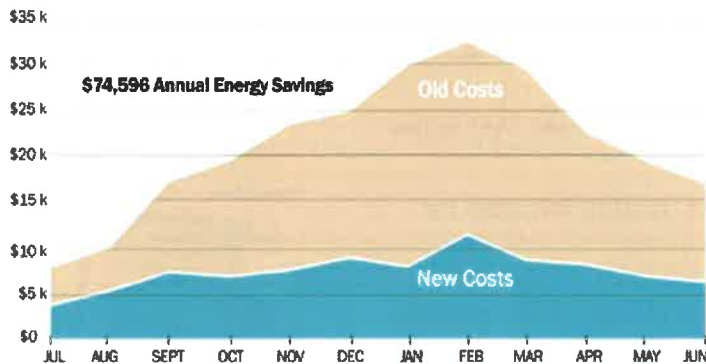
As one of the nation’s leaders in Indoor Air Quality (IAQ), **ZDS** provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.



At **ZDS**, our engineering staff integrates energy efficiency into each project design to provide you, our client, with the added value that you expect and deserve. The **ZDS** team approach represents a tremendous amount of experience in designing energy efficient facilities. **ZDS** offers a comprehensive range of energy management services including:

- Providing detailed analysis of facilities
- Recommending sound and proven energy saving solutions
- Implementing energy management improvements
- Determining, quantifying and assisting in securing available Utility and Government grants

The **ZDS** team members take pride in the quality of their projects and have been responsible for designing and implementing numerous energy management programs. These programs are providing significant energy improvements and include optimizing, central utility plant equipment, control systems, air handling systems, lighting systems, and other energy consuming equipment.



ABOVE: ZDS designed and implemented the region's first and largest commercial geothermal system saving Webster County High School over \$74,596 in energy savings.

Recent projects include:

- Interconnecting boilers and chiller plant systems
- Designing Geothermal HVAC systems
- Optimizing HVAC equipment and operating sequences, including upgrades to variable speed operation
- Installing Direct Digital Control (DDC) Energy Management Systems
- Replacing inefficient lighting equipment with energy efficient systems
- Modifying air handling equipment from 100% outside air to return air operation
- Implementing heat recovery units into HVAC equipment
- Improving laundry, kitchen and other process application efficiencies



In addition to the energy management projects outlined above, the **ZDS** team members have extensive experience in identifying and implementing energy efficient operating and maintenance measures. These are typically low cost or no cost measures that include:

- Inspecting, calibrating temperature controls and adjusting outdoor air dampers
- Commissioning economizer cycle operation
- Testing steam traps and pressure relief equipment operation
- Enabling heating and cooling equipment only when required

The **ZDS** team is trained and experienced in advising you of program options to incorporate energy efficiency and operational savings features into the design of your new construction and renovation projects. At **ZDS**, we view our role as helping you to define your own energy efficiency needs and goals through identifying energy savings options and providing supporting financial information. We then help you fit your energy efficiency needs and goals into a workable budget and schedule, and then design a program to fill those needs.

Sustainable “Green Building” design, including LEED certification, recognizes the importance of commissioning. The design and construction industry have had start-up problems when a facility is occupied and construction deficiencies were not discovered until the contractor’s traditional one-year warranty period expired. The mechanical and electrical systems have continued to become more complex with sophisticated control systems and equipment, and a mountainous amount of changing technology. If not properly addressed, building owners could face numerous operational problems from “Sick Building Syndrome,” excessive energy costs, and uncomfortable indoor environments.

Commissioning is the missing link between design and implementation. Prior to joining **ZDS**, Todd Zachwieja established commissioning services for one of the nation’s largest energy service companies. He is also a LEED Accredited Professional. Many utility companies and building owners now require commissioning for new or renovated facilities in order to maximize the use of their investments in their facilities and to obtain LEED certification.

ZDS offers commissioning services for their clients, including meeting LEED enhanced commissioning requirements. These services include strategic planning and operations assistance for renovation and new construction projects. Commissioning services consist of construction document review, equipment performance testing, documentation of design criteria, value engineering, operational fine tuning, coordination of professional operations training programs and site-specific engineering consultation. Our project team has the unique experience of in-depth design knowledge and hands-on operations knowledge that fills in the gap between traditional design services and the building owner’s operational needs.

The commissioning process now required by ASHRAE 90.1 Energy Code and offers the following benefits:

- Improved comfort, serviceability and owner understanding of systems and design intent
- Added technical support for the owner and being proactive in preventing new problems
- Reduced maintenance and decreased expenses related to operating deficiencies
- Early identification and resolution of system discrepancies while designers and contractors are still under contract and on the job
- Verification of system performance while meeting financial restraints

The National Conference on Building Commissioning invited Todd Zachwieja to speak and he jointly presented a paper with the Director of Maintenance of Charleston Area Medical Center’s Memorial Division. The Tampa, Florida Conference involved experts nationwide.

Since 1958, the **ZDS** design staff has provided millions of dollars of engineering design services on a variety of project types. The **ZDS** design team will provide comprehensive services utilizing experienced staff through planning, cost estimating, engineering, coordination of bidding, regular site visitation during construction and specifications for equipment.



You, our client, will greatly benefit from a single point of responsibility for every need your project may have.

WV Army National Guard Headquarters & Annex Building

ZDS Design/Consulting Services and its principals Ted and Todd Zachwieja were involved in many mechanical, electrical, and plumbing design projects for the WV Army and Air National Guard. ZDS projects with the Army National Guard include providing electrical Design/Build engineering and project management for emergency power for the Army Headquarters Building and Annex Building in Charleston, WV. This project was completed ahead of schedule and within budget to provide emergency power needs for the Coonskin Army National Guard campus as part of their overall homeland security strategy. ZDS also evaluated and designed HVAC renovations to restore four indoor firing ranges to meet current compliance with Army Standards.



Total MEP Cost: Over \$4,000,000

Contact: Lt. Co. Todd Justice, Deputy Director of Joint Operations: anthony.t.justice.mil@mail.mil

WEST VIRGINIA

ARMY NATIONAL
GUARD

WV Army National Guard Dunbar Armory



ZDS provided comprehensive MEP engineering support for HVAC/partial lighting renovations at the Dunbar Armory. Our professional services included preparation of the Construction Bid Documents, issued in one package, and continued through bidding, negotiation and construction administration of the Contract.

Renovations resulted in a **61% reduction** in energy for lighting and **41% reduction** in energy for HVAC renovations over ASHRAE 90.1-2007 standards qualifying the project for EAct.

Total Project Cost: \$1,000,000 (completed under budget)

Contact: SGM Kenny Goodson: kenneth.c.goodson.mil@mail.mil



Design/Consulting Services

Engineering for State & Local Government Facilities



ZDS worked with the West Virginia Air National Guard on the Commissioning for their new Replacement Aircraft Maintenance Hangar and Shops plus a new Fuel Cell Hangar. This facility included a larger maintenance hangar, miscellaneous maintenance shops, central boiler plant and chiller plant. The project successfully achieved LEED Silver Certification with commissioning being an integral part of that certification.

"ZDS's commissioning services were invaluable in helping us understand our facility and ensure the systems were installed as intended and optimized for long-term operating benefits. We would recommend them again!" - Captain Harry Netzer, WVANG Project Manager

130th Airlift Wing at Yeager Airport,
Phase I and Phase II
Aircraft Maintenance Fuel Systems
Hangars and Shops
Awarded LEED Silver Certification

Construction Costs: \$43,000,000
Project Size: 128,715 ft²



Design/Consulting Services

Engineering for State & Local Government Facilities



Governor's Mansion

Engineering planning and design for central heating plant, DDC controls, Air Handling Unit replacements and retrofits, operating and maintenance, training, heat recovery, fuel conversion, VFD's, variable water volume pumping, steam/heating hot water and chiller optimization.

Renovations included HVAC, fire safety, lighting, plumbing, indoor air quality and electrical power engineering.



Building #3



State Capitol



LEED Certified Candidate



Design/Consulting Services

Engineering for State & Local Government Facilities

Welcome Center and Rest Area



ZDS engineered the prototype for several Welcome Centers and Rest Areas.

ZDS provided engineering planning, design, bidding and construction admin services for M/E, Plumbing and Fire Protection.

ZDS also evaluated the existing courthouse's potential power needs and incorporated those in the new Judicial Annex's electrical systems while providing emergency power.

Mercer County Annex



Division of Culture and History
A 228,500 ft² Facility



Emergency Power Generator

Renovations save the Museum nearly \$153,000 in annual energy costs while preserving the State's priceless collection with proper HVAC, humidification, lighting, electrical and power generator systems.



Design/Consulting Services

Engineering for State & Local Government Facilities

ZDS engineering project experience includes facilities registered as official Historic Buildings



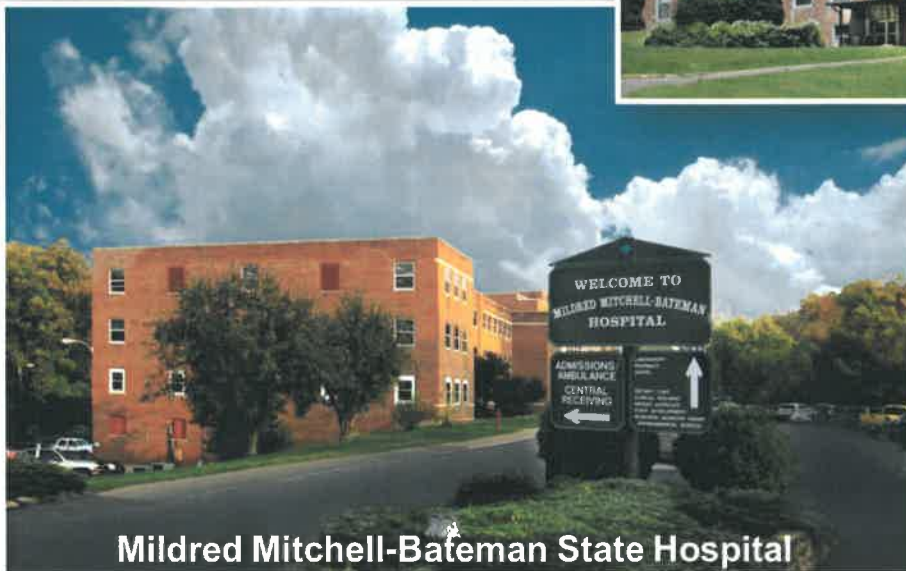
Jackie Withrow State Hospital



WVDHHR hired ZDS to engineer the upgrades for three historic hospital facilities in three separate locations. ZDS successfully completed the projects while meeting the requirements of the State Historic Preservation Office (SHPO).



Hopemont State Hospital



Mildred Mitchell-Bateman State Hospital

Renovations included HVAC, fire safety, energy efficient lighting, plumbing, indoor air quality and electrical power engineering.

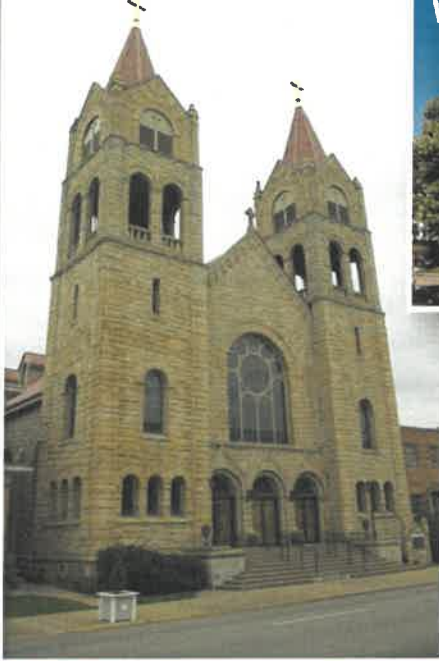


Design/Consulting Services

Engineering for State & Local Government Facilities

ZDS project experience includes historical facilities sensitive to finding solutions that address IEQ which includes acoustics, lighting, Indoor Air Quality and comfortable energy-efficient HVAC systems.

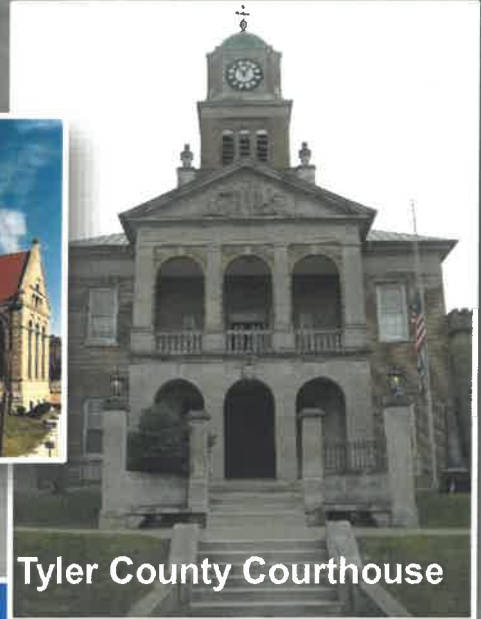
St. Patrick's Church



WVU Stewart Hall



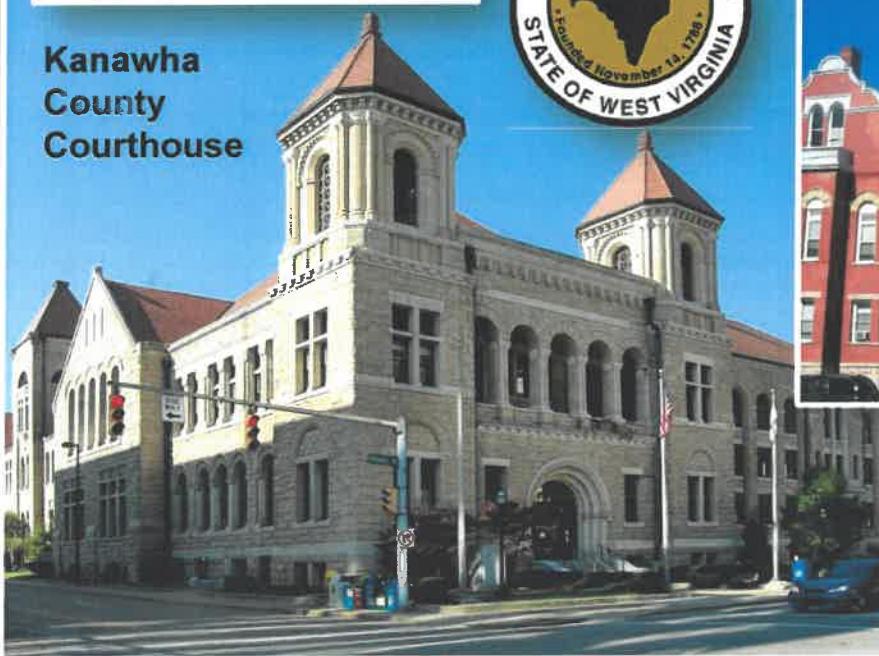
Tyler County Courthouse



Tucker County Courthouse



Kanawha County Courthouse



Size: 219,754 ft² plus 33,000 ft² Addition

Date Complete: 2017

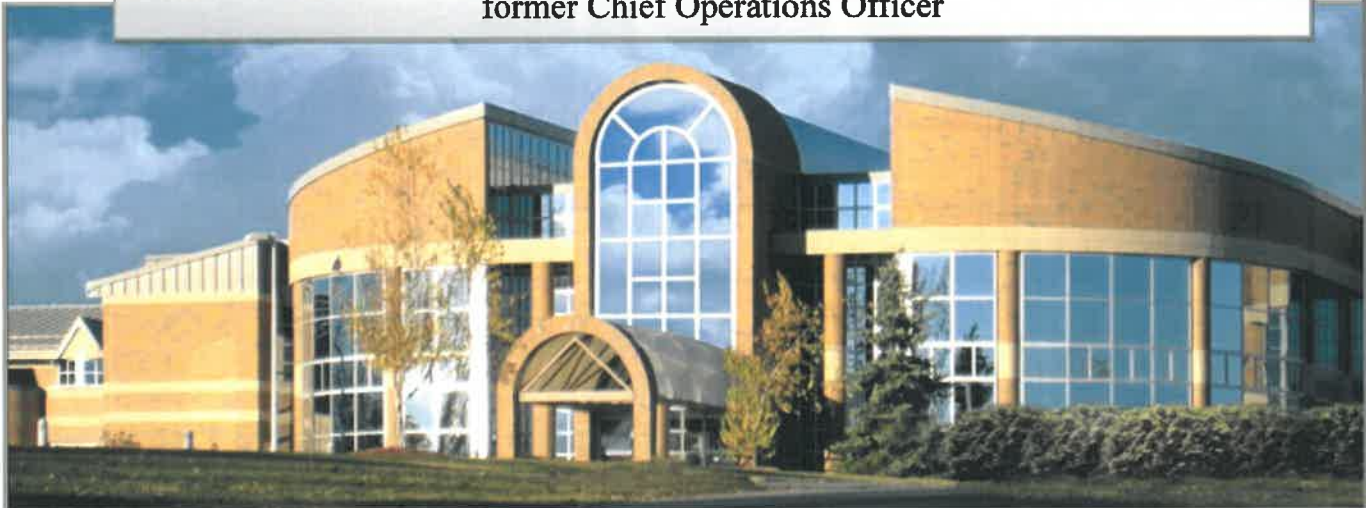
219,754 ft² Renovation plus 33,000 ft² New Construction

Prime for Engineering Master Planning, HVAC Renovations, Lighting Upgrades, Emergency Generator, Fire Protection, Electrical Renovations, Roof Replacement, Commissioning, 3D Scanning.
Consultant for all MEP engineering through IKM, Inc. for the addition.



MEP Engineering design and Commissioning services for both the HVAC/lighting/roof Renovation project retrofitting Hospital and the patient wing addition. Comprehensive MEP engineering and commissioning services for a central domestic hot water services, central boiler/chiller plant and 1.8 MW bi-fuel emergency generator system. VVV Pumping for heating, cooling and domestic hot water. Integrated DDC controls for central monitoring, troubleshooting and control including demand control ventilation and outside air measuring/monitoring. The HVAC system is also an integral part of the smoke control system. Lighting systems upgraded to LED and controlled to minimize energy. IAQ enhancements were incorporated into the high performance HVAC systems. Careful phasing, and the need to disrupt only small portions of the Hospital at a time, resulted in an extended construction period.

*“The **ZDS** staff are great planners and designers! They help us make the best decisions for the long term. We would recommend them to anyone!”*
former Chief Operations Officer



Renovations resulted in a 48% reduction in lighting and 28.8% reduction in energy for HVAC renovations over ASHRAE 90.1-2001 standards qualifying the project for EPAc.

Construction Costs:	Phase I HVAC Cost	\$ 1,403,000	Completed in 2011
	ARRA Funded Lighting Upgrade Costs	\$ 618,700	Completed in 2011
	Comprehensive Renovation Cost	\$30,000,000	Completed in 2017
	Addition Project Cost	\$13,500,000	Completed in 2014

State of West Virginia Capitol Complex

Charleston, WV



State of West Virginia Capitol Complex Charleston, WV

Project Cost: \$20,000,000

Size: 1,900,000 ft² covering 9 buildings

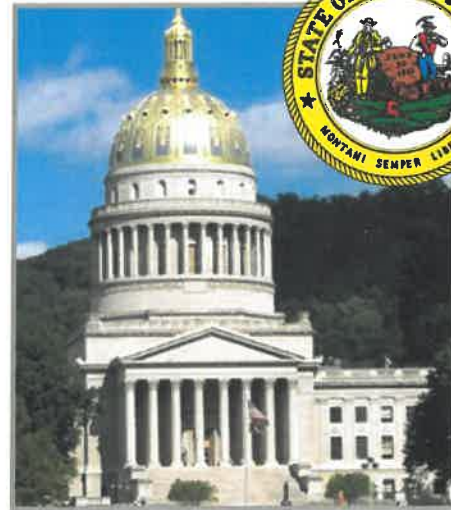
Date Complete: 2019 for latest project

**HVAC Renovations, Fire Protection,
Electrical Renovations, Consultant for Performance Contracting**

Client Reference:

Mark Lynch, Mgr. Facility Operations; mark.w.lynch@wv.gov

Builder Reference: Constellation Energy; Chuck Moeller
(previously with Johnson Controls; (724) 584-3331



Numerous design and renovation projects for the WV State Capitol Complex including engineering planning, design, supervision, preparation of construction documents, specifications, construction administration, and commissioning of HVAC systems, sprinkler systems, plumbing systems, electrical power, lighting, fire alarm, security, technology and communications for many facilities on the WV Capitol Complex: **WV Division of Protective Services:** Engineering master planning & design for specific life safety issues involving homeland security, fire alarm, sprinklers, emergency power, CCTV, intercom, mass notification and "giant voice" system for all State facilities on the Capitol Complex under a 10-year open-end contract. **WV Division of Culture and History Library** renovations addressing long-term HVAC and IAQ problems including fire alarm and fire protection upgrades completed in 2011. Renovations conserved energy without sacrificing comfort or indoor air quality. **District Heating System:** As a consultant to Johnson Controls under a Performance Contracting program to provide master planning and design for the district heating system for the **WV Capitol Complex**. The project included the Master Planning, IAQ evaluation, energy analysis, code analysis and Mechanical design involving more than 1,900,000 ft² of facilities including the Capitol Building, Building's #3, #4, #5, #6, #7, Holley Grove, Governor's Mansion and the Cultural Center.

Master planning & design for central heating plant, DDC controls, Air Handling Unit replacements and retrofits, operating and maintenance, training, heat recovery, fuel conversion, VFD's, variable water volume pumping, steam/heating hot water & chiller optimization.



The Capitol Complex renovations are estimated to save nearly \$2,000,000 annually over the costs of operating the old systems.

Project Experience

Project Cost: \$17,000,000, **Size:** 45,000 ft² **Date Complete:** 2018

Study/Evaluation, HVAC Renovations, Fire Protection, Electrical Renovations, Emergency Generator, Lighting Upgrades, 3D Scanning

Client Reference:

WYK Associates, James Swiger, President; (304) 624-6326, james@wykassociates.com

High performance sustainable HVAC/Electrical/Plumbing/FP upgrades. Quiet HVAC system meeting stringent acoustical performance requirements for Performing Art. 3D-Scan-to-BIM of the existing facility was invaluable to develop the comprehensive existing conditions. Built in 1913, this beautiful award winning historic theatre has come back to life!

*Renovations resulted in a **50.8% reduction in energy** over ASHRAE 90.1-2007 standards qualifying the project for EPA Act.*



Project Cost: \$17,000,000, **Size:** 117,500 ft², **Date Complete:** 2017

Study/Evaluation, HVAC Renovations, Lighting Upgrades, Fire Protection, Electrical Renovations, 3D Scanning

Client Reference: Gary Boyd, Director of Facilities; (304) 357-4871

The facility consists of classrooms, offices, flexible meeting areas and a large two-story Innovation Center space. Mechanical and Electrical work includes new chiller and boiler plants with pumps and accessories, HVAC air handling units, DDC Controls, new domestic and fire protection water services, new gas service, domestic water heating equipment, extensive plumbing fixtures/showers/lockers, new electrical service from the campus 12.5 kv distribution loop, switchgear, distribution and branch panel boards, and new state-of-the-art energy efficient LED lighting systems.

Renovations resulted in over a 50% reduction in energy over ASHRAE 90.1-2007 standards.





**The Prince Jonah Kūhiō Kalanianaʻole (PJKK)
Federal Building and
United States Courthouse
Honolulu, Hawaii**



**130th Airlift Wing at Yeager Airport, Phase I
and Phase II: Aircraft Maintenance Fuel
Systems Hangars and Shops**

**Awarded a LEED Silver Certification for
each of the two phases**

“ZDS’s commissioning services were invaluable in helping us understand our facility and ensure the systems were installed as intended and optimized for long-term operating benefits. We would recommend them again!” - Captain Harry Netzer, WVANG Project Manager



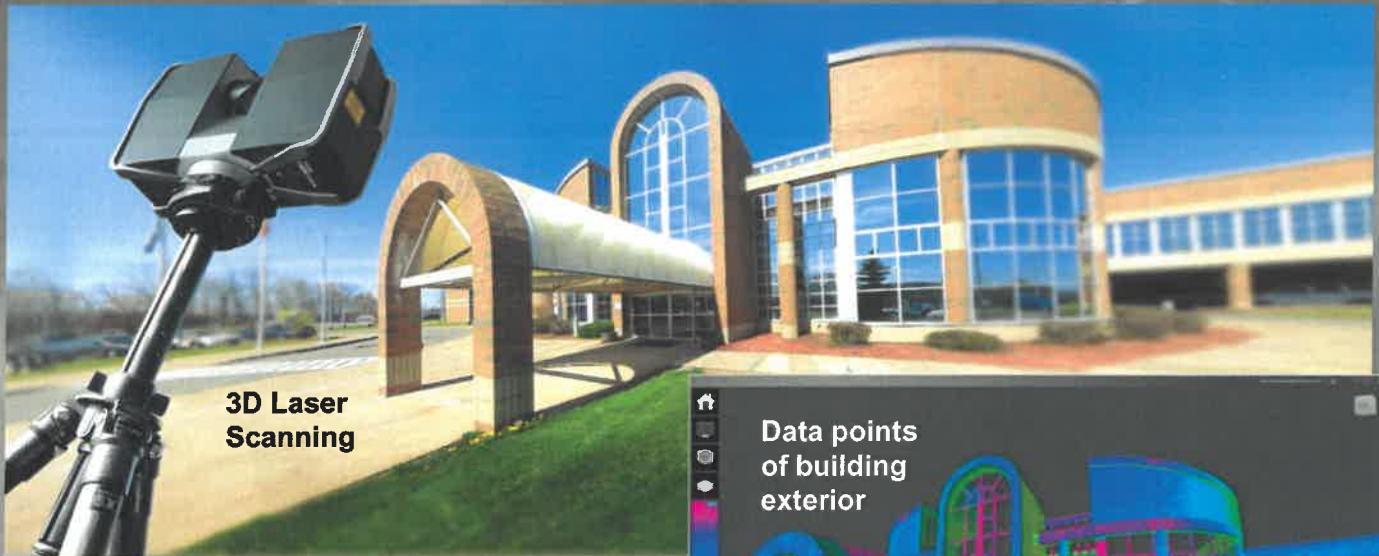
**Harvard University
Arnold Arboretum Weld Hill
Research and Administration Building**

LEED Gold Certified

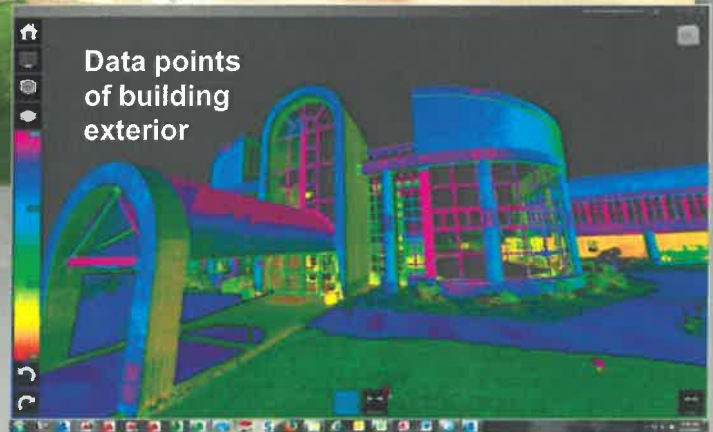
- General Motors (GM) of North America
- Maryland – Calvert County Indoor Aquatic Center
- Montgomery County Departments of Correction and Police
- Ohio University – Chillicothe Campus, Stevenson Library and Bennett Hall
- Santa Ana Federal Building Renovations
- University of California, Davis School of Veterinary Medicine Instructional Facility
- Washington & Lee University
- WV Museum of Culture and Natural History
- WV State Capitol Complex
- WVU—Downtown Campus
- CAMC General Division
- CAMC Memorial Division
- CAMC Women & Children’s Hospital
- Milledgeville Georgia Correctional Facility
- United Hospital Center

BIM - 3D Digital Imaging

Our 3D Laser Scanning Services helped William R. Sharpe, Jr. Hospital document existing conditions and integrate their 50-bed addition.



3D Laser Scanning



Why 3D Laser Scanning is better:

3D laser scans reveal significant differences between existing conditions and the original drawings.

3D laser scans also provide superior details by capturing data that is more comprehensive and precise than conventional methods.

“With the 3D laser scanning service, ZDS saved us countless hours communicating to all project team members, even to those who work or live far away.

Also, we now have an accurate record of the existing conditions that DHHR can easily access now and into the future.”

former Chief Operations Officer



Web Share:

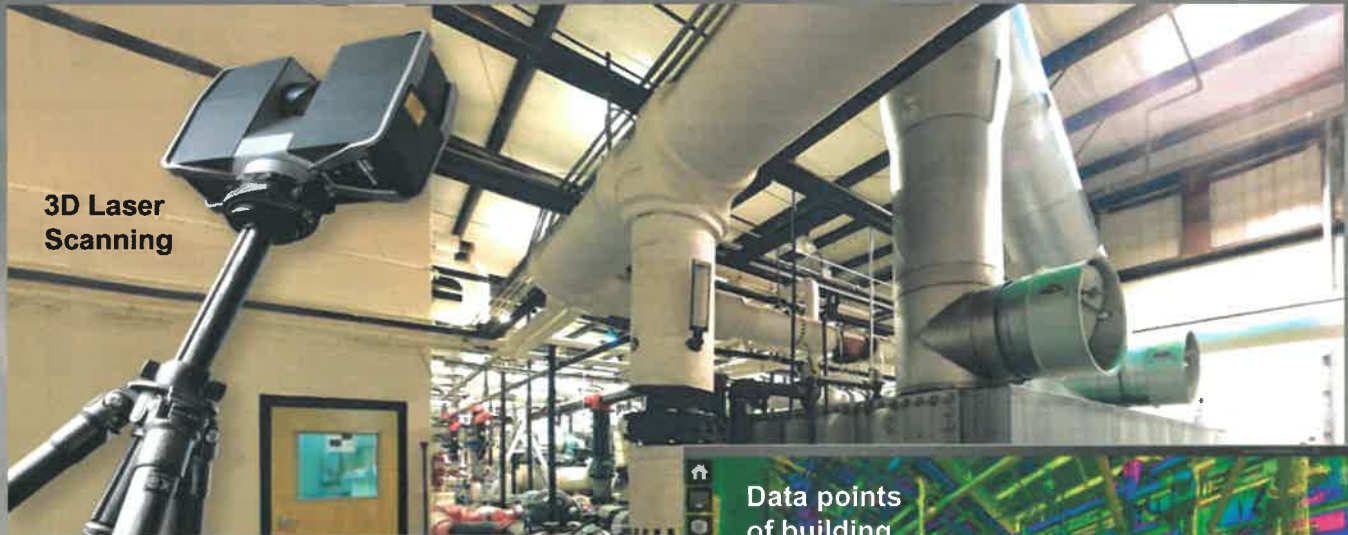
3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.



BIM - 3D Digital Imaging

“The 3D laser imaging improves quality, saves time and money while providing a valuable resource now and into the future.”

DHHR



3D Laser Scanning

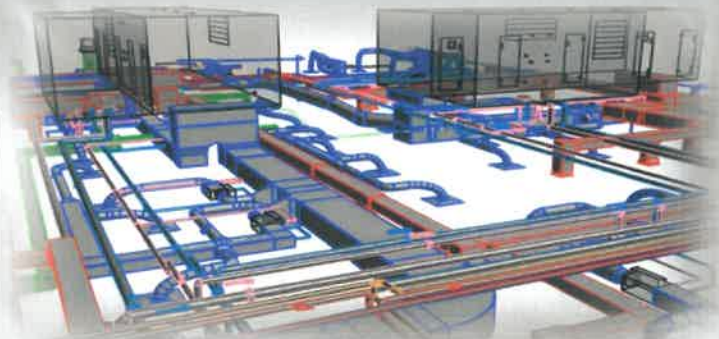


Data points of building interior

“The 3D laser scans safely document hard-to-reach interior areas — this greatly reduces our risk for liability.

Also, the excellent details of the laser scans convert to accurate construction drawings, both architectural and engineering.”

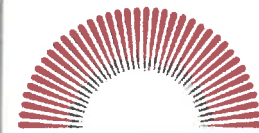
DHHR Director of Construction & Project Management



3D Engineering Drawing:
Sample of 3D mechanical drawing converted from 3D laser scan data points.

Web Share: Helps construction team members integrate existing conditions into BIM models.





Todd has over 40 years of experience involving the analysis, design, construction management and specifications for mechanical engineering, heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting, as well as indoor environmental quality analysis, building system commissioning and forensic engineering for educational, governmental, military, commercial, industrial and health care clients. He is also recognized as a campus master planner for utility infrastructure providing master planning at many Universities, hospitals and the State of WV Capitol Complex.

Prior to starting a consulting engineering firm, Todd Zachwieja coordinated comprehensive energy conservation programs resulting in annual energy savings of millions of dollars. He has managed a profitable regional office for one of the country's largest energy companies that service the southeastern United States. Todd also developed computer modeling programs for building energy analysis and monitoring. He has been invited as an industry leader to present technical papers and speak at professional conferences both regionally and nationally.

Todd selected and designed the pilot project for one of the largest geothermal heat pump applications in the Eastern US including designing custom geothermal rooftop AHU's. He has retro-commissioned HVAC systems for millions of square-feet for facilities located in 10 states. He has been involved with many commercial structures including high-rise commercial building renovations. Todd designed renovations to many existing schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools. *The College Planning and Management Magazine* featured Todd and his work with a major University for the performance contracting programs that save millions of dollars in energy and operating costs. Most projects also qualified for EPAAct which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

GOVERNMENT/HISTORIC/COMMERCIAL PROJECT EXPERIENCE

- Bank One
- Bayer Material Science
- Calvert County Aquatic Center, MD
- Charleston Area Medical Center
- Cass Scenic Railroad Clubhouse, WVDNR
- Coal Heritage Discovery Center
- Culture Center, HVAC & Fire Protection, WV State Capitol Complex
- General Motors Corp. Re-commissioning
- Hopemont Hospital, WVDHHR
- Jackie Withrow Hospital, WVDHHR
- Jackson County Courthouse Annex
- Kanawha County Commission: 120,000 sf Judicial Annex additions/renovations
- Kanawha County Courthouse
- Kanawha County Metro 911
- Kanawha County Public Library
- Kanawha County Schools
- Kohl's
- Laidley Towers
- Marshall University
- Mercer County Courthouse Annex
- Olin Corporation
- Phillip Morris USA
- Public Service Commission of WV
- Redmond House, WVDOT
- Rhone-Poulenc
- Robinson Grand Performing Arts Theatre
- Santa Anna Federal Building, CA
- St. Patrick's Church
- Tyler County Courthouse
- Tyler County Schools
- Toyota Motor Manufacturer, WV Inc.
- Union Carbide/DOW
- United Center
- University of Charleston Innovation Ctr
- William R. Sharpe, Jr. Hospital, WVDHHR
- Word Trade Center, MD
- WV Air National Guard including Cx \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport – **LEED Silver Certified**
- WV Army National Guard
- WV Capitol Complex Central Heating Plant
- WV Children's Home, WVDHHR
- WV Department of Transportation/DOH
- WV Division of Protective Services
- WV Higher Education Authority
- WV General Services Division
- WV State Capitol Complex renovations
- WVU Stewart Hall & Wise Library
- Yeager Airport



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida [REDACTED]

Georgia [REDACTED]

Kentucky [REDACTED]

Maryland [REDACTED]

North Carolina [REDACTED]

Ohio [REDACTED]

Pennsylvania [REDACTED]

South Carolina [REDACTED]

Virginia [REDACTED]

West Virginia [REDACTED]

Fire Investigation Certification under the direction of Peter Vallas, Sr.

CEM[®]
Certified Energy Manager
(C.E.M.) National
Certification No. 2205



LEED Accredited Professional,
National Certification through
USGBC No. 10083891

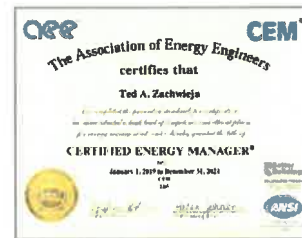
EDUCATION

Masters of Science in Engineering
Management from West Virginia University
College of Graduate Studies.

Bachelor of Science in Mechanical
Engineering from West Virginia
Institute of Technology.

PROFESSIONAL AND COMMUNITY AFFILIATIONS

Member of Investigative Engineers Association (I-ENG-A) and founder of I-ENG-A of the Tri-State Region
Past President 2013-14, current Governor - WV ASHRAE Chapter, Served as ASHRAE's Energy and Technical Affairs Chairman for six years. Recognized by ASHRAE Region VII in 2014 with the David Levine Award of Excellence, Presidential Award of Excellence,
Recognized by the International Who's Who of Professionals
Recognized nationally as West Virginia's Business Man of the Year
Recognized by AEE nationally in 2007 as a Legend in Energy
Recognized by AEE nationally in 2008 as a Charter Legend in Energy
Charter Life Member of the Association of Energy Engineers
Professional Affiliate Member of the American Institute of Architecture
Associate Member West Virginia Society for Healthcare Engineering
Member of the International Code Council
Member of the National Society of Professional Engineers



OTHER RECOGNITIONS

Selected by WVU and the WV Division of Energy to train Code officials and the design community on ASHRAE 90.1 State Energy Code
Presented at regional and national conferences including the annual National System Commissioning Conference
Contributing editor and served on the Editorial Review Panel for *"The Handbook of Building Management and Indoor Air Quality"*
Contributing editor *"Ventilation for a Quality Dining Experience"*
Contributing editor and served on the Editorial Review Panel for *INvironment Professional, Power Prescriptions* and other publications and articles featuring Indoor Air Quality (IAQ) and MEP engineering systems
Energy Star Certified for facilities in the nation's top 25% of energy efficiency
1st Place 2014 ASHRAE Technology Award, Region VII
LEED Silver Certified WVANG Fuel Cell/Maintenance Hangar, Charleston, WV
LEED Gold Certified Harvard Arboretum, Boston, MA
First ASHRAE bEQ certified building in West Virginia, 2015



Ted has over 16 years of experience in building construction design industry. His strategic thinking and development of technical resources at ZDS has helped streamline design processes and improve quality of work office wide. Ted is an innovative problem solver in engineering design, communication methods and management of BIM models between stakeholders during a design project. As a pioneer and a believer in technological processes Ted has championed Integrated Design Practices that has become the fabric of ZDS's day to day operations.

Ted developed ZDS's 3D Scanning services which have assisted in collecting key existing conditions for renovation projects, forensic engineering, historical preservation, and high definition reality capture. Ted has in depth experience on collection, registration, and scan to BIM processes. He has provided training and developed materials for best practices when using 3D scan data. Ted's 3D scanning experience includes governmental, educational, health care, industrial, and commercial facilities. He also has experience in speaking on how 3D laser scanning impacts our industry today.

Ted develops, designs and manages the IT systems. The experience encompasses development and deployment of central server systems to networked client computer systems, strategic development for ZDS' Integrated Design Processes, and research and development into new technologies to continue staying on the cutting edge for ZDS and others.

Ted's project experience includes design and commissioning for heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting systems for educational, health care, industrial and commercial facilities. His experience encompasses working both on new construction and renovation projects. He also is experienced in historical facilities including theatrical.

Ted maintains an active membership to the ASHRAE professional society and also has a lifetime membership to the Association of Energy Engineers. He maintains an active continuing education towards today's standards and codes as well as participates in ASHRAE at both a local and society level. He was recently appointed to the Electronic Communications Standing Committee with ASHRAE. Ted has designed renovations to existing K-12 schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools.

GOVERNMENT/HISTORIC/COMMERCIAL PROJECT EXPERIENCE

- WV Air National Guard Maintenance Hangar and Fuel Cell Hangar, Charleston, WV – **LEED Silver Certified**
- Adams Morgan Historic Hotel, DC
- Bayer Material Science
- Catholic Church of Ascension, Parish Hall Renovations
- Coal Heritage Discovery Center
- Culture Center, WV State Capitol Complex
- Highland Museum, KY
- Hopemont Hospital, WVDHHR
- Jackie Withrow Hospital, WVDHHR
- Kanawha County Judicial Annex HVAC Renovations
- Laidley Towers
- Meadowbrook Rest Areas
- I-70 Welcome Center
- CASCI Building, Charleston WV
- Morgantown Welcome Center
- Pocahontas County Community Center
- Redmond House, WVDOT
- Robinson Grand Performing Arts Theatre
- Servia Rest Areas
- St. Patrick's Church, Weston WV
- Stonewall Jackson Marina
- Tyler County Courthouse
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations, WVDHHR
- World Trade Center, Renovations, MD
- WV Children's Home, WVDHHR
- WV Parkways Authority, Toll Booth Plazas
- WV State Capital Complex Central Heating Plant
- WVU Wise Library
- White Sulfur Springs Rest Area
- Numerous K-12 School Renovations



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida [REDACTED]

West Virginia [REDACTED]

Certified Energy Manager (C.E.M.)

National Certificate

No. [REDACTED]

CEM[®]

EDUCATION

Bachelor of Science in Mechanical Engineering from Rochester Institute of Technology, Rochester, NY

AWARDS AND RECOGNITIONS

Awarded 2012 Legend in Energy by the Association of Energy Engineers

Awarded acceptance into ASHRAE's 2015 Leadership University

ASHRAE Blue Ribbon Award of Excellence
Co-Author at Autodesk University



Energy Star Certified for facilities in the Nation's top 25% of energy efficiency



Member & Co-Founder
I-ENG-A of the
Tri-State Region

Jim has over 40 years' experience in design and implementation of lighting, HVAC, plumbing and electrical systems including nine years in the construction industry. He has a comprehensive knowledge of construction documents, contracts, and development of cost estimates, budgets and schedules. Jim's strengths reside in his ability to manage projects and people in an organized and cost-effective manner. Jim has been involved with the design and production of mechanical and electrical drawings including HVAC, plumbing, fire protection, lighting, electrical power, fire alarm and specialized systems. He has worked with and managed engineers in projects for health care, educational and commercial buildings in the states of West Virginia, Florida, Maryland, Pennsylvania, Ohio, Kentucky, Virginia, Georgia, New York, Arizona, Illinois and Massachusetts.

Jim has extensive experience in energy savings' programs for lighting, HVAC, plumbing and electrical systems in hospitals, state and government office buildings, school systems, and manufacturing facilities, as well as managing performance contracts for a large facility's campus totaling \$10,000,000 in construction costs on various projects, including the conception, design and construction administration for the installation of a 1.5 Megawatt emergency generator. The propane-fired generator and associated switchgear in conjunction with 60,000 gallons of propane fuel storage served to provide peak shaving/load shedding to save on the campus utility costs as well as emergency power functions. Through the years, Jim has researched and implemented into practice International Building Codes, NFPA Codes, National Electrical Codes, Life Safety Codes, IES standards, AIA Guidelines for Design and Construction, and ADA guidelines. His involvement in construction through the years has been mainly from the design side of the industry with a 9 year stint working for a contracting firm at the turn of this century. His experience includes coordinating with Architects, Owners and Agencies including an excellent relationship with the office of State Fire Marshal.



PROFESSIONAL AFFILIATION

Member of Investigative Engineers Association (I-ENG-) of the Tri-State Region



Member of the National Fire Protection Association (NFPA)



Member of the Health Care Section of the NFPA

Member of the Illuminating Engineering Society (IES)

Past member of the American Society of Plumbing Engineers (ASPE)

Past member of the Institute of Electrical Engineers (IEEE)

OTHER RECOGNITIONS

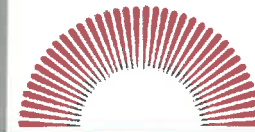
Energy Star Certified for facilities in the Nation's top 25% energy efficiency



GOVERNMENT/HISTORIC/COMMERCIAL PROJECT EXPERIENCE

- Bluefield Area Transit Authority Administration and Maintenance Facility
- Kentucky Judicial Center, Boyd County
- Coal Heritage Highway Authority
- Chase Towers (formally Charleston National Bank)
- Culture Center Fire Alarm/Sprinklers, WV State Capitol Complex
- Department of Transportation Rest Area prototype
- Department of Transportation Welcome Center prototype
- Fenway Park Lightning Protection/ Grounding Study, Boston
- Glenville State College
- Hopemont Hospital, WVDHHR
- I-70 Welcome Center
- Jackie Withrow Hospital, WVDHHR
- Jackson County Libraries Renovations
- Kanawha County Commission Judicial Annex Renovations
- Laidley Towers
- Meadowbrook Rest Areas
- Morgantown Welcome Center
- Redmond House, WVDOT
- Rhone-Poulenc New Admin. offices
- Robinson Grand Performing Arts Theatre
- Sacred Heart Pavilion and Daycare Ctr
- St. Patrick's Church
- Shawnee Park Clubhouse
- Stonewall Jackson Marina Renovations
- Tucker County Board Office Boiler Retrofit
- Tucker County Courthouse
- Tyler County Courthouse
- University of Charleston Innovation Ctr
- William R. Sharpe, Jr. Hospital, WVDHHR
- World Trade Center, MD
- WV Air National Guard including Cx \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport – **LEED Silver Certified**
- WV Children's Home, WVDHHR
- WV Department of Military Affairs, Public Safety Maintenance Facility, Eleanor
- WV Department of Transportation Burnsville Rest Area and Domestic Water Pumping Station—**AIA Merit Award Recipient**
- WV State Capitol Complex Renovations to Buildings 1, 3, 4, 5 & 7
- White Sulphur Springs Welcome Center

Chase Thomas, PE



ZDS 26
Design/
Consulting
Services

Chase has over 10 years of experience providing design, Construction Administration and Commissioning services in mechanical, plumbing, fire protection and various electrical systems. His experience encompasses a broad range of Projects including, but not limited to, Commercial, Government, Healthcare, Educational and Industrial facilities. These Projects over the years have ranged extensively from small to large in terms of both physical sizes and construction budgets. He also has construction experience adding a practical hands on knowledge to both design and commissioning.

Chase's specializes in the design/commissioning and layout of HVAC systems, fire protection/sprinkler systems, lighting and other electrical systems. He has an excellent understanding of the design and implementation of piping systems encompassing all domestic water, sanitary waste/vent, storm water and natural gas combined with a knowledge in steam/water heating systems, boilers, pumps, recirculating systems, Thermostatic Mixing Valves, etc. He consistently stays current with applicable Codes and national, as well as local, standards and regulations.

He has a good awareness of all aspects of the design process and how the various disciplines need to be coordinated to avoid conflicts during construction. Chase has maintained growth as technology has changed throughout the years in the field of engineering design and drafting standards beginning with varying degrees of CAD drafting and proficient in BIM/REVIT and energy modeling.

Chase is the President for the WV ASHRAE professional society . He maintains an active continuing education towards today's standards and codes as well as participates in ASHRAE at both a local and society level. He has also continued his education with relevant courses associated with the field of engineering, and has been active in leadership training provided through ASHRAE and other highly reputable coaching services.

PROJECT EXPERIENCE

- Ashland Community & Technical College HVAC Controls
- Ben Franklin Career Center HVAC Renovations and Commissioning; Kanawha County Schools
- New Bluefield Primary School Commissioning; Mercer Co. Schools
- Bluestone Dam Gate Controllers Electrical Renovations
- Bluestone & Dunbar Armory HVAC Renovations
- Bonsak Elementary (VA) HVAC Controls Renovations
- Cabell Huntington Hospital Surgery Center HVAC Controls Renovations
- CAMC Memorial Hospital Patient Rooms HVAC Renovations
- Clay High School Commissioning
- New Fisher House, VA Hospital
- Marshall University Jomie Jazz HVAC Renovations
- New Mountain Valley Elementary Commissioning; Mercer County Schools
- St. Mary's Hospital Patient Rooms HVAC Renovations
- North Central Regional Jail Renovations
- North Fork Elementary Renovations and Commissioning
- Pendleton County Middle/High School Renovations and Commissioning
- Riverside High School HVAC Renovations
- Roane General Hospital Commissioning
- Tucker County High School HVAC Renovations
- Tyler County Courthouse
- Tyler County New 911 Center
- Tyler Consolidate Middle/High School HVAC Renovations and Commissioning
- Urlings General Store Renovations
- West Edge Factory Renovations
- Weston Hampton Inn HVAC Retrofit
- WV Capitol Complex Central Heating Plant Renovations Bldg. #1, #3, #4, #5, #7
- World Trade Center Renovations, MD



PROFESSIONAL REGISTRATIONS

Professional Engineer:
West Virginia

EDUCATION

West Virginia University
Bachelor of Science
in Mechanical Engineering

AWARDS AND RECOGNITIONS

Member of Boy Scouts of America
(Eagle Scout)
General Contractor License Holder

PROFESSIONAL AFFILIATIONS

President of WV ASHRAE



Member I-ENG-A
of the Tri-State Region





To whom it may concern:

ZDS Design/Consulting Services was sub-contracted by SAIC to perform the fundamental commissioning activities on a two-phase maintenance and fuel cell hangar project for the 130th Airlift Wing on the West Virginia Air National Guard Base at Yeager Airport outside Charleston, West Virginia.

Without hesitation, I recommend Todd Zachwieja and his team for their efforts on this complex project. The first phase, the Replace Aircraft Maintenance Hangar and Shops phase, was initially scoped to meet a certifiable level for LEED® certification. ZDS Design/Consulting Services worked with my team and the West Virginia Air National Guard (WVANG) representatives through the design phase to provide the necessary activities required to meet the LEED® Energy and Atmosphere Prerequisite 1, Fundamental Commissioning of the Building Energy Systems. However, when the second phase, the Fuel System/Corrosion Control Hangar and Shops phase, came to life about the time that phase 1 construction began, the entire project was required by the National Guard Bureau to be certified by the Green Building Certification Institute (GBCI) at a LEED® Silver level. ZDS Design/Consulting Services diligently worked with the general contractor, the WVANG and SAIC to develop an approach to the phasing of the commissioning activities for both buildings that still met the fundamental commissioning prerequisite requirements as one of the hangars was to lay dormant after completion for an extended period of time until near the completion of the second phase. This required that ZDS Design/Consulting Services perform some of the commissioning activities for the first phase during the first phase construction and the remainder during commissioning of the second phase.

Through the construction process, Todd Zachwieja's group kept me well informed on their schedule and their deliverables. Todd was frequently on my LEED status calls with the contractor to stay abreast of any upcoming issues that would affect the commissioning activities and to assist in how to resolve issues that would come up. In addition, ZDS Design/Consulting Services assisted us with services beyond the commissioning activities as well. These included providing and reviewing building flush-out calculations to determine if LEED® Indoor Environmental Quality Credit 3.2, Construction IAQ Management Plan, Before Occupancy, was achievable and providing light level readings for a light pole that needed to meet certain light levels. The project achieved LEED® Silver certification and the fundamental commissioning prerequisite was approved by the GBCI after the first construction review without qualification.

ZDS Design/Consulting Services proved to be a well-qualified firm that provides timely and efficient services. SAIC was extremely pleased with their services on this challenging project.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

A handwritten signature in black ink, appearing to read "Thomas Warner".

Thomas Warner, LEED® AP, BD&C
LEED Administrator/Senior Architect

SAIC Energy, Environment & Infrastructure, LLC

60 East Plato Boulevard, Suite 300 St. Paul, MN 55107 tel: 651.771.2222 fax: 651.778.3911 | saic.com/EEandI

Tyler County Schools

P.O. Box 25
Middlebourne, WV 26149
(304) 758-2145
Fax (304) 758-4566

A. Shane Highley, Superintendent

Linda Hoover, President
Katrina Byers, Vice-President
Dave Roberts, Member
Larry Thomas, Member
P.J. Wells, Member

February 4, 2020

To Whom It May Concern:

This letter is to recognize the outstanding performance of ZDS Design/Consulting Services regarding their team and services rendered to Tyler County Schools. ZDS worked with Tyler County Schools on the Tyler Consolidated Middle/High School HVAC Equipment Replacement Project.

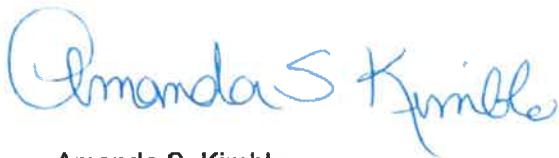
ZDS Design/Consulting Services are to be commended for their patience, diligence, and HVAC engineering expertise with our recent project. The project was complicated with funding and scheduling issues, and ZDS was able to overcome these hurdles and deliver a construction project that had very little issues. Their knowledge of the building systems and project construction administration were key.

From initial project planning, design development, bidding, construction administration, and closeout, ZDS was beside Tyler County Schools to provide any necessary support needed to make this project successful. Their professional team worked closely with our staff to ensure the design accommodated all of the needs for our students and staff.

It has been a pleasure working with the staff at ZDS. I wholeheartedly recommend ZDS Design/Consulting Services for projects similar to the scope of this one.

Please feel free to contact me if you may have any questions or comments.

Sincerely,



Amanda S. Kimble
Director of Support Services and Facilities
Email - akimble@k12.wv.us Office - # 304-758-2145

Boyd, Gary MA, CEFP

2300 MacCorkle Ave. SE | 304 357-4871 | garyboyd@ucwv.edu

To Whom It May Concern

With well earned respect I would like to recommend ZDS as a high quality MEP design firm.

I have had multiple opportunities to work on highly technical projects with Todd Zachwieja and his team of skilled engineers. The first project that I had the opportunity to work with ZDS was a WVU project that connected several older chillers to develop a chilled water loop on the downtown campus. The project included piping through congested areas, load calculations, differential pressure and pump control, and load balancing. This project was designed to become a phased approach to a central chiller plant which is now in operation. The project was efficiently managed and the performance exceeded expectations. As the system changed and older chillers were removed from the loop, Todd always responded to questions and concerns to insure a positive outcome for the overall objective.

At present I am working with ZDS on a University of Charleston project constructing a new Innovation Center and Athletic Complex. ZDS has accommodated many twist and changes to this project. We are on track to open the new facility in December of this year. I have found Todd and his team to be highly responsive and professional.

Sincerely,

A handwritten signature in blue ink that reads "Gary L. Boyd". The signature is written in a cursive style with a large initial "G" and "B".

Boyd, Gary MA, CEFP
Director of Facilities
University of Charleston



Civil & Environmental Consultants, Inc.

Bridgeport, WV

Civil Engineering & Site Development

CEC provides civil engineering and site development consulting services to assist clients with the development of cost-effective designs for office campuses, industrial developments, and institutional and educational facilities along with commercial, retail, and residential site developments.

CEC has extensive experience preparing regulatory permits and managing the design, approval, and on-site construction processes associated with a project. CEC has developed a reputation for developing high-quality, sustainable and “buildable” design solutions within construction budgets.

Site Grading Analyses

Site grading plans produce “balanced” earthwork conditions for sites involving minimal earthwork and those involving several million cubic yards of earthmoving. CEC incorporates CADD technology while integrating slope stability, drainage, stormwater management, and geotechnical requirements.

Predevelopment Site Investigations

CEC provides predevelopment investigation services to evaluate sites for specific uses, addressing site layout, zoning adherence for parking and setbacks, site access, wetlands and other environmental considerations, geotechnical concerns, grading/earthwork and utility availability and capacity.

Utility Design/Coordination

CEC designs sanitary sewer collection and conveyance systems, sewage pumping and on-site treatment facilities, and water distribution systems for domestic and fire protection needs while effectively coordinating with electric, natural gas, telephone, and cable television utility companies to provide service to new site developments.

Erosion and Sedimentation Control

CEC has a proven track record of obtaining local, state, and federal erosion and sedimentation control (E&S) permits and/or regulatory approvals. With a thorough working knowledge of state and federal E&S and National Pollutant Discharge Elimination System (NPDES) regulations and requirements, CEC’s primary objective is to



effectively protect the local waterways from erosion and to integrate E&S controls with post-development stormwater management to reduce overall site development construction costs.

Stormwater Management/Water Quality Design

CEC provides comprehensive stormwater management consulting services, including flood routing studies, stream relocations and enclosures, hydrologic and hydraulic analyses and design, stormwater detention design, and the design of water quality best management practices (BMP) facilities. CEC analyzes alternative stormwater detention measures and methodologies to tackle the unique stormwater-related challenges of difficult sites.

PRACTICES

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Company Overview

Civil & Environmental Consultants, Inc. (CEC) provides comprehensive industry-focused consulting services that advance client strategic business objectives.

Consistently ranked among the Top 500 Design Firms and Top 200 Environmental Firms by *Engineering News-Record*, CEC is recognized for providing innovative design solutions and integrated expertise in the primary practice areas of civil engineering, ecological sciences, environmental engineering and sciences, waste management and water resources.

Safety First

CEC believes that all accidents are preventable and is committed to creating an accident and incident free workplace for employees and subcontractors through training, safe work practices, and processes for assessing project hazards. CEC strives for safety excellence throughout our entire organization and holds employees and subcontractors accountable for the safe performance of their work. Safety is a key element of CEC's Strategic Plan and is represented by our Accident and Incident Free program.

Industry Oriented

Multi-disciplined Industry Consulting Groups (ICGs) are derived from the primary practice areas to strategically focus on the business challenges and drivers of the manufacturing, mining, natural gas, power, public sector, real estate and solid waste industries. Each of these diverse teams is a conduit to the latest thinking and advancements in the industries we serve, allowing CEC to provide clients with concise, timely information and regulatory updates to facilitate informed decision-making.

Employee Owned

CEC's employee-owners are highly motivated by the link between our success and that of our clients. Our continuing growth reflects client confidence in the work of our employees, who are guided by three core business principles:

- **Senior Leadership**
- **Integrated Services**
- **Personal Business Relationships**



Multi-Disciplined

Headquartered in Pittsburgh, Pennsylvania, CEC is an expanding company with:

- Civil Engineers
- Geotechnical Engineers
- Environmental Scientists
- Environmental Engineers
- Chemical Engineers
- Geologists
- Hydrogeologists
- Hydrologists
- Ecologists
- Biologists
- Wetland Scientists
- Threatened & Endangered Species Experts
- Agronomists/Soil Scientists
- Emissions Testing Professionals
- Chemists
- Archaeologists
- Construction Managers & Inspectors
- Environmental Technicians
- Treatment Plant Operators
- Land Surveyors
- Landscape Architects
- GIS Analysts & Programmers

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INDUSTRIES

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- Power*
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- Solid Waste*

Company Overview

Civil Engineering

- Erosion & Sedimentation Control/ NPDES Permitting Predevelopment Site Investigations
- GPS/GIS Services
- Landscape Architecture/Land Planning
- Geotechnical Engineering
- Site Grading/Earthwork Analysis
- Expert Witness Testimony
- Roadway Design and DOT Permitting
- Stormwater Management/BMP Design
- Utility Design
- Sustainability Planning/Design
- Construction Services
- Integrated Project Delivery
- Site Infrastructure Maintenance/Rehabilitation
- Topographic Surveys
- ALTA ACSM Land Title Surveys
- Boundary Retracement Surveys
- Horizontal & Vertical Control Surveys
- Volumetric Surveys
- Construction Surveys
- Oil and Gas Pipeline Surveys
- Highway R/W Surveys
- As-built Surveys
- LiDAR Surveys

Ecological Sciences

- Wetlands and Waters Delineations
- Clean Water Act, Section 401/404 Permitting
- Wetland & Stream Impact Mitigation Design
- Ecosystem Restoration
- Wetland AMD Treatment
- Fish & Macroinvertebrate Surveys
- Bathymetric/Hydrographic Surveys
- Expert Witness Testimony
- Water Quality & Sediment Surveys
- Threatened & Endangered Species Surveys/ Wildlife Surveys
- Clean Water Act, 316 (a) & (b) Permitting
- Aquatic & Terrestrial Habitat Surveys
- Ecological Risk Assessment & Land Restoration
- Soil Science & Phytoremediation

Environmental Engineering and Sciences

- Air Emissions Testing & Permitting
- Greenhouse Gas Reporting
- Air Dispersion Modeling
- Phase I & II Assessments
- Site Characterization
- Property Condition Assessments
- Risk Assessments
- Auditing & Compliance Plans
- RCRA/CERCLA
- Soil/Groundwater Remediation Systems
- Brownfield Redevelopment Services
- Hydrogeology & Groundwater Modeling
- Storm Water Sampling & Permitting
- NPDES Permitting Support
- Expert Witness Testimony
- Cultural Resource Management
- Architectural History (Above-ground) Resource Investigations
- Archaeological Investigations
- FERC Applications/Certification

Waste Management

- Landfill Design & Permitting
- Transfer Station Design & Permitting
- Waste Characterization Studies
- Landfill Gas Management
- Geotechnical Engineering
- Renewable Energy Processes
- Air Compliance & Permitting
- Expert Witness Testimony
- Leachate Treatment & Control
- O & M of Control Systems
- Construction Services
- Site Selection and Characterization
- Hydrogeologic Site Investigations
- Environmental Monitoring/Compliance Support
- Coal Combustion Product Management

Water Resources

- Stormwater BMP Design & Inspections
- Compliance Audits
- NPDES Permit Negotiation
- Watershed Planning & Restoration
- Flood Routing and FEMA Map Revisions
- TMDL Modeling & Monitoring
- Stream Assessments & Restoration
- Expert Witness Testimony
- Water Quality & Quantity Modeling
- Low Impact Development Design
- Erosion & Sediment Control Design and Inspection
- Water Quality BMP Testing
- Waste Water and Leachate Treatment
- Stormwater Piping & Culvert Inspections

LOCATED NATIONWIDE

- Austin, TX*
855.365.2324
- Boston, MA*
866.312.2024
- Bridgeport, WV*
855.488.9539
- Charlotte, NC*
855.859.9932
- Chicago, IL*
877.963.6026
- Cincinnati, OH*
800.759.5614
- Columbus, OH*
888.598.6808
- Detroit, MI*
866.380.2324
- Export, PA*
800.899.3610
- Indianapolis, IN*
877.746.0749
- Knoxville, TN*
865.977.9997
- Nashville, TN*
800.763.2326
- Philadelphia, PA*
888.267.7891
- Phoenix, AZ*
877.231.2324
- Pittsburgh, PA*
800.365.2324
- Sayre, PA*
877.389.1852
- Sevierville, TN*
865.774.7771
- St. Louis, MO*
866.250.3679
- Toledo, OH*
855.274.2324

Construction Phase Services and Quality Assurance

The trained professionals, technicians, and inspectors at CEC combine extensive experience with state-of-the-art field equipment to complete construction phase services for a wide range of civil, geotechnical, environmental, and waste management projects.

CEC routinely monitors the construction of large earthmoving projects, mine grouting programs, the installation of erosion control measures, landslide corrective actions, environmental remediation projects, geosynthetic installation, landfill closures, and building construction.

Construction Phase Services

- Construction Quality Assurance (CQA)
 - Density Testing of Soils and Aggregates
 - Concrete Testing
 - Structural Steel Testing
 - Masonry Testing
 - Fire Proofing Testing
 - Asphalt Pavement Testing
 - Fill Placement Monitoring
 - Geosynthetic Testing
- Landfill Liner/Cap Installation Monitoring
- Confirmation Sampling
- Certification Report Preparation
- As-Built Drawing Preparation

IBC Special Inspections

CEC provides Special Inspections during building construction as required by Chapter 17 of the International Building Code (IBC). The code requires the firm performing Special Inspections to be retained by the owner or design professional, not the contractor. CEC typically provides testing of soils, concrete, masonry, steel, and fire proofing. CEC's technicians are certified by numerous testing organizations including ACI, NICET, AWS, and ICC.

Environmental Related Monitoring

CEC provides services during the remedial action phase of UST and waste/contaminated material removal projects and has directed and monitored the installation of groundwater extraction and treatment systems and soil venting systems. Professionals include AHERA-certified asbestos inspectors who can monitor



removal of asbestos-containing materials. CEC technicians also perform air monitoring during construction to allow contractors to assess on-site personnel protection requirements.

Waste Management CQA

CEC provides CQA services during the construction and closure of waste management facilities. CEC reviews material testing reports, monitors placement of earth materials and geosynthetics, and evaluates field test results from geosynthetic installations while compiling the information for the construction certification report, sealed by a CEC registered professional engineer and prepared for submittal to environmental agencies.

Construction Management

CEC provides complete construction management services beginning with the bidding process and through to project closeout. CEC develops bid documents, solicits and evaluates bids, and negotiates contracts for site development, environmental remediation and other projects. During construction, CEC oversees contractor activities with site supervision and helps meet the specifications and schedule requirements.

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Construction Management Services

CEC engineers, construction managers and field superintendents provide tailored Construction Management Services (CMS) to deliver seamless completion of projects. CEC's pro-active approach saves time and cost while providing quality results that achieve client objectives.

Construction Management Approach

CEC provides CMS as an agency or as an Owner's Representative, as well as CEC-led Design/Build arrangements where CEC provides a turnkey solution. CEC's collaborative team approach enables early, impactful decisions about a project's design intent, schedule, budget, materials and more. As the Construction Manager (CM), CEC acts as the Owner's Representative and advocate, managing the construction trades, budgeting and scheduling. Trade contracts are "held" either by the owner or by CEC as the CM. In a Design/Build approach, where CEC is responsible for both design and construction of a project, CEC contracts directly with the Owner and is fully responsible for the delivery of the project. CEC's typical Design/Build approach is to offer an integrated team with CEC providing design and engineering on a turnkey basis.

The benefits of a CEC-led CM approach are:

- Builder/contractor selection flexibility
- Early input on constructability
- Early budget and schedule input/control
- Faster schedule delivery
- Owner advocacy

CEC provides a single point of responsibility for both design and construction.

Construction Management Services

CEC's suite of construction-related services provides client advocacy and confidence while delivering projects in many forms, including:

- Pre-Construction
- Project Administration
- Construction Inspection
- Constructability Reviews
- Project Controls and Document Management
- Scheduling



- Cost Estimating
- Cost Control and Value-Engineering
- Change Order Management
- Claims Management and Resolution
- Quality Assurance
- Startup and Testing
- Project Close-out

Construction Management Experience

CEC has delivered on-schedule and on-budget quality CMS for a variety of projects, including:

- Site Development
- Earthwork and Grading
- Site Utility Construction
- Soil and Groundwater Remediation
- Landslide Repair and Remediation
- Erosion & Sedimentation Controls Installation
- Wetland and Stream Restoration
- Access Road Rehabilitation and Construction
- Mine Grouting
- Soil Retention Systems
- Paving
- Post-Construction Restoration

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Due Diligence

CEC's integrated approach to due diligence is designed to provide timely and vital information for real property transactions to support an informed decision process.

CEC's due diligence services define a client's risk tolerance, schedule and cost parameters while identifying and quantifying liabilities during the sale, refinance, lease, development or investment in real property. Recognizing and considering liabilities and fatal flaws is essential to the decision-making process. CEC effectively manages these liabilities with early identification, quantification, and communication of the risks.

CEC's due diligence services include:

- Environmental Assessments (ASTM, Phase I and II Assessments, Archaeological)
- Property (Facility) Condition Assessments
- Environmental Compliance Audits and Hazardous Material Surveys
- Ecological Resources Reviews and Permitting Evaluation (Wetland Identification/Delineation, Jurisdictional Waters, Threatened and Endangered Species)
- Land Survey Services (ALTA/ACSM and Geophysical Surveys)
- Local Ordinance Reviews
- Utility Evaluations
- Geotechnical Investigations
- Floodplain/Floodway Identification
- Stormwater Management Assessments
- Site Evaluations and Conceptual Planning
- Pre/Post Occupancy Assessments Supporting Lease Requirements



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Floodplain Management

CEC's team of skilled and experienced floodplain management professionals provide in-depth regulatory knowledge and sound engineering to produce comprehensive solutions for floodplain management.

The task of improving flood control and risk management through structural and non-structural measures, as well as improving the water quality for our nation's rivers and streams, has been pushed down to the local level.

CEC provides a fully integrated watershed approach to floodplain management, identifying and solving complex stream problems through expertise in stream restoration, water quality, and endangered species management. CEC's team of stream and stormwater professionals includes Hydrologists, Hydraulic Engineers, GIS Specialists, and Certified Floodplain Managers (CFM) who provide the following services:

- Stream Condition Assessment
- Stream Restoration / Relocation Design
- Floodplain Regulatory Permitting
- Hydrologic Studies
- Hydraulic Modeling
- Bridge and Culvert Hydraulic Design
- Reservoir Design and Improvements
- Dam and Improvements Design
- Dam Safety Engineering
- Dam Regulatory Permitting
- Dam Critical Flood Studies
- Dam Emergency Action Plans
- Dam Operation Maintenance and Inspection Plans
- Floodway Encroachment Studies
- Floodway Delineation and Mapping
- FEMA Map Revisions
- Stormwater Management



CEC offers professional services in Floodplain Management to a wide variety of industry clients, including:

- Real Estate Developers
- Golf Course Owners
- Utility Companies
- Mining Companies
- Property Owners
- Home Owners Associations
- Industrial Companies
- Government Agencies
- Environmental Attorneys
- Environmental Managers

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Landscape Architecture & Planning

CEC provides a diverse range of landscape architecture design services for site and land development, master development planning, feasibility studies, stormwater management, landscape design, green infrastructure and irrigation.

CEC provides landscape architecture services to architects; developers; institutional, commercial and businesses owners; and public agencies, and is recognized for leadership in applying sustainable design practices to projects seeking LEED® certification.

Site and Land Development

CEC landscape architects prepare feasibility studies, site concept plans and master development plans for commercial office and retail sites, industrial and residential developments and institutional/academic campuses. Preliminary site planning services address utility and roadway infrastructure, vehicular accessibility and circulation, in some cases rail access, municipal zoning and land development requirements, and state and federal regulations, as well as site planning flexibility.

CEC takes into consideration floodplain issues, topographic constraints, existing and proposed infrastructure, stormwater management, preservation of natural site features such as existing vegetation and water courses, and review of wetlands and other environmental considerations. CEC can include the design of ponds and other water features such as bioswales, rain gardens, and creative stormwater treatment measures to limit water resource impacts.

Landscape and Irrigation Design

CEC can prepare landscape design and planting plans that address local municipal ordinance requirements and the client's program objectives, LEED, and construction budget constraints. CEC also can prepare irrigation plans and construction documents to include commercial systems, groundwater and surface water supply irrigation systems, increased water efficiency, fountains and other water amenity features.



Graphic Renderings and Photo Manipulation Services

CEC prepares large-scale color renderings, photo manipulation services and 3-D modeling for presentation quality drawings and 3-D visualizations. CEC combines computer accuracy with an artistic by-hand touch to create realistic renderings and 3-D models. With technology to overlay proposed design solutions on photos of existing site conditions, CEC can communicate a photo-realistic effect of what the final design solution may look like, which is very effective for public meetings. Hand-drawn and computer-imaged renderings include: black and white and color perspectives, realistic detailed sections and elevations, 3-D models, and color presentation boards presenting both conceptual and final master plans.

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Civil & Environmental Consultants, Inc.

LEED®/Sustainable Site Design



Leadership in Energy and Environmental Design (LEED) is the fastest growing practice area in the engineering and architectural consulting industry. The United States Green Building Council (USGBC) LEED rating point system begins with site selection context and includes numerous components of civil engineering, land planning, landscape architecture and ecology. Referred to more broadly as "Sustainable Site Design," the utility and water savings, life cycle cost benefits and public image of "Green/Sustainable Projects" define the need for a creative and innovative design team. CEC's design consultants provide leadership and effective expertise to our clients to assure they meet their LEED/Sustainable project site design goals.

Community Context and Site Selection

The first step in the LEED rating process is site context and community connectivity. CEC sustainable site consultants can evaluate properties for public transportation and community density parameters, existing building and site condition surveys, brownfields, remediation and tax increment financing opportunities, wetland and habitat restoration, site footprint and green space analysis and site master planning.

Materials Re-Use and Repurposing

The cost of off-site disposal and the cost savings from recycling of useable existing materials such as concrete, bituminous paving, structural steel, brick and other products normally considered waste can be part of the LEED point system. CEC's team can inventory existing properties for potential re-purposing of site materials and prepare demolition and materials handling plans for re-use within the infrastructure of the client's new LEED project as paving, sub-strate, and landscape architectural site features.

Site Water Resources

While innovative building mechanical and lighting systems are a core component of LEED buildings, water resource or water efficiency (WE) credits are important points to achieve on any Green Building project along with their substantial contribution to operational cost reduction. CEC's civil engineers, landscape architects and ecologists can develop strategies for storm water run-off capture for use as efficient irrigation and gray water systems, bio-filtration, rain gardens, pervious

paving, detention filtration or ground water recharge. CEC has extensive experience in on-site storm water treatment and bio-remediation design.

Sustainable Landscaping

Our landscape architects and ecologists specialize in the use of native plant species to greatly reduce or eliminate irrigation and maintenance demands while achieving necessary common visual appeal and order. CEC can develop site design plans that incorporate recycled materials and design high efficiency irrigation systems using captured rain water that reduce water use and overspray loss.

Ecological Restoration

Our team of ecologists and biologists can assess sites for invasive species issues and wetlands and provide plans for invasive species management, wetland restoration and native species re-vegetation. This component of our consulting expertise can contribute to the total number of LEED Sustainable Sites (SS) certification points achieved.

USGBC LEED Documentation

USGBC LEED project certification requires thorough and accurate calculations and support documentation for each requested criteria point. CEC's LEED Accredited Professionals (LEED AP) and design team prepare the necessary documentation and assist our clients in the certification review process to achieve the maximum number of available points including innovation credits for creative proposals and design solutions.

Civil & Environmental Consultants, Inc. (CEC) provides comprehensive, industry-focused consulting services that advance our clients' strategic business objectives. CEC scientists and engineers deliver knowledge, innovative design solutions and integrated expertise in civil engineering, environmental engineering and sciences, ecological sciences, waste management and water resources. Multi-disciplinary Industry Consulting Groups (ICGs) focus on the business challenges and drivers of the manufacturing, mining, natural gas, power, public sector, real estate, and solid waste industries.

Senior Leadership Integrated Services Personal Business Relationships

Located Nationwide

Austin, Texas	855.365.2324
Boston, Massachusetts	866.312.2024
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Chicago, Illinois	877.963.6026
Cincinnati, Ohio	800.759.5614
Cleveland, Ohio	866.507.2324
Columbus, Ohio	888.598.6808
Detroit, Michigan	866.380.2324
Export, Pennsylvania	800.899.3610
Indianapolis, Indiana	877.746.0749
Knoxville, Tennessee	865.774.7771
Nashville, Tennessee	800.763.2326
North Central Pennsylvania	877.389.1852
Philadelphia, Pennsylvania	888.267.7891
Phoenix, Arizona	877.231.2324
Pittsburgh, Pennsylvania	800.365.2324
St. Louis, Missouri	866.250.3679
Toledo, Ohio	855.274.2324

www.cecinc.com

Site Infrastructure Maintenance and Rehabilitation Services

CEC engineers, construction managers and field superintendents perform infrastructure assessments, develop recommendations to correct concerns, and deliver cost-effective repair, rehabilitation and maintenance services for site infrastructure.

CEC inspects, monitors, maintains, restores, repairs and improves property infrastructure. The need for such services can arise from damage, age, poor maintenance of systems, and/or changing regulatory requirements. CEC's one-stop approach saves time and money, while assisting clients with compliance and maintaining the safety and aesthetics of their properties.

Stormwater Facilities

CEC inspects and maintains stormwater facilities to ensure stormwater infrastructure is functioning in accordance with design and regulatory requirements. CEC can provide stormwater facility conversions from erosion control ponds to permanent stormwater detention/retention facilities. CEC's engineers and construction personnel are experienced with the design and functionality of the various types of stormwater best management practices (BMPs) used for controlling, treating and conveying stormwater runoff. These professionals assist in evaluating stormwater infrastructure while providing an effective monitoring, maintenance and turnkey construction program to extend and enhance a site or facility life.

Site Surface Features

Site surface feature review and assessment is intended to identify areas and issues that need to be addressed to maintain the safety, stability and functionality of a site. The results of the review are used to develop recommendations for maintenance and remedial work. Such site surface features can include:

- Slopes and embankments
- Sidewalks and crosswalks
- Pavement markings and traffic signage
- Surface drainage controls, such as diversion ditches, swales, riprap, etc.
- Slope benches and drainage outlets



CEC offers review, engineering and construction management services to maintain your real estate asset.

Site Utilities

The location of utility infrastructure is an important element of property maintenance, particularly in the absence of as-built information, or if site expansions and/or modifications are proposed. To locate underground utility infrastructure, CEC offers a comprehensive scope of geophysical services and technologies. Geophysical methods can be used with video camera inspections of sanitary sewers and storm sewers to locate and evaluate existing conditions, while fire hydrant flow testing evaluates the water system flow rates.

Site Landscaping

CEC's unique mix of ecological, civil engineering, landscape architecture and construction management services enhances the natural environment of existing pond and landscaped areas – turning functional assets into amenities. CEC creates natural environments, installing native species and improving biodiversity to enhance water quality and reduce the amount of erosion occurring over time. CEC works with property management personnel to develop

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Site Infrastructure Maintenance and Rehabilitation Services

a sustainable approach to stormwater management and the landscape along with the appropriate maintenance schedules.

Parking and Pavement

CEC reviews existing site layouts to evaluate the efficiency of site parking, internal access roads and external driveways, and pedestrian and vehicular safety. CEC also manages pavement construction rehabilitation and maintenance, and utilizes the Pavement Surface Evaluation and Rating (PASER) or ASTM Pavement Condition Index (PCI) systems to assess existing pavements and parking lots. Subsurface explorations assess the as-built conditions and thickness of the existing pavement components and the pavement subgrade materials. CEC's geotechnical engineers develop cost-effective methods to rehabilitate pavements, and recommend programs to extend the life of the repaired pavement.



Steven A. Cain, P.E.

Principal

Mr. Cain, a professional engineer with CEC, has more than 22 years of experience in civil engineering design and project management.

Steve's experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design.

Steve has also spent a large part of his career in managing projects from conception to completion. As a project manager Steve has assisted clients in identifying potential project needs, assisting the client in securing project funds, performed and directed detail design, and participated in and managed construction activities.

PROJECT EXPERIENCE

Government

Internal Revenue Service Computing Center, GSA

Steve was the Project Designer responsible for the updating of an existing Spill Prevention, Control, and Countermeasure Plan and West Virginia Department of Environmental Protection Underground Injection Permit. Work included field investigation of storm sewers and oil water separators to determine illicit discharge connections and field surveying of existing features to develop base mapping.

United States Custom House, GSA

Steve was the Project Designer responsible for the preparation of a Spill Prevention, Control, and Countermeasure Plan and Operation and Management Plan. Work included field investigation of basement sumps, underground storage tanks and discharge points into storm sewers, to determine possible illicit discharge connections, surveying of existing features to development base mapping and the design of secondary containment practices within the building structure.

Water Distribution System Study, AFCENT

Steve was part of a team assigned to field investigate the water distribution system at the Thumrait Air Base, Oman, for the U.S. Air Forces Central. The project included an in country field evaluation, assembling a base map of existing system components, preparation of a hydraulic model for determining system deficiencies, and preparing a 60%, 90%, and final report document.

Rehabilitation of Water Intake Structure, National Park Service

Steve provided project management and engineering design services for a new water intake structure in the Conococheague Creek for the National Park Service's Cushwa Basin, an interpretive historic site, which is part of the Chesapeake and Ohio Canal system. In addition to the water intake structure, this project included the design of a pneumatic backwash system for the water intake screen, a coffer dam for construction, pump station improvements, access road design, storm water design, a precast concrete building with controls for

EDUCATION

B.S., Engineering Technology - (Civil Emphasis), Fairmont State University

REGISTRATIONS

Professional Engineer

- WV15264
- PAPE056215
- MD33727

CERTIFICATIONS

Permit & Non Permit Confined Space Entry

10 Hour OSHA Construction Safety & Health

SafeLand

First Aid / CPR

PROFESSIONAL AFFILIATIONS

American Society of Highway Engineers

Fairmont State University Technology Advisory Board

West Virginia Rural Water Association

the backwash system, and electrical system upgrades. Additional services included providing a Condition Assessment Report, Cost Estimates, permitting, construction plans and specifications, meeting minutes, and product data cut sheets.

Water Distribution System Improvements, Confidential Government Agency

Steve was the Project Manager for a water distribution system improvements project that included the design of two (2) 388,000 gallon water storage tanks, a 2,000 GPM constant discharge pressure pump station, new vertical turbine high service pumps, approximately 8,000 LF of 12" ductile iron water line, pressure reducing valve stations, and SCADA system improvements. The project also included the inspection and evaluation of the facilities existing raw water line from its raw water intake to the water treatment plant. Additional services included design charrettes, narratives, cost estimates, and permitting.

Residential/Commercial Development

Ray Dental Office, Linda Ray, DDS

Steve was the Project Manager for the preparation of a site plan and West Virginia Department of Environmental Protection Erosion and Sediment Control permit application for the proposed site development of the Linda Ray (Owner) dental office to be located on Lot No. 5 of the Valley Industrial Park Phase II.

Square at Falling Run, Mac Warner

Steve was the Project Engineer for the Phase 1 Site Development of a new 14-story, 180-unit apartment complex. The project included the site grading plan, water and sewer utility design, access design, and preliminary design on road improvements.

Fisher Mountain Estates, LGI

Steve was the Assistant Project Manager for a 1000-lot residential subdivision which includes conceptual land plans, final construction drawings for roads, utilities, water treatment plant and storage tanks, wastewater treatment plant, and permitting.

Roadways

I-495 Capital Beltway HOT/HOV Lanes, Fluor-Lane

Steve was the Project Designer responsible for water and sanitary utility relocation services for 12 miles of widening and reconstruction with four high occupancy toll/high occupancy vehicle (HOT/HOV) lanes in each direction.

Route 250 Waterline Relocation, City of Fairmont

Steve was the Assistant Project Manager in the creation of plans for the relocation of the 12-inch water line located along the east side of US Route 250 south of Fairmont for the City of Fairmont in preparation for a road widening project. Steve served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

Route 250 (Raw) Waterline Relocation, City of Shinnston

Steve was the Assistant Project Manager in the creation of plans for the relocation of the 16-inch raw water line located along US Route 250 South of

Fairmont for the City of Shinnston in preparation for a road widening project. Served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

Transportation**Western MD Correctional Instituted Traffic Impact Study, MDSHA**

Steve performed data collection and capacity analysis for traffic impact study for new correctional facility to determine off-site roadway improvements. Work included trip generation, traffic assignment and analysis and preparation of condition diagrams.

Street Lighting Project Phase II, Town of Lumberport

Steve was the Project Manager for providing the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the installation of 12 additional new historic style street lights. This project was TEA-21 funded.

High Street Retaining Wall and Pedestrian Access, City of Shinnston

Steve was the Project Manager for providing the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the construction of a retaining wall to stabilize High Street embankment. The project also included the rehabilitation of the sidewalks and pedestrian access steps that connected High Street to the downtown area.

Wastewater**Barry Street Sanitary Sewer Evaluation Survey (SSES), City of Fairmont**

Steve was the Project Manager for providing SSES to determine the cause of basement flooding of 10 residents from the sanitary sewer system along Barry Street in the City of Fairmont. The work included smoke testing the Barry Street drainage shed that provides sanitary and storm sewer service to approximately 200 City of Fairmont customers to determine illegal connections to the sanitary sewer system. Steve performed dye testing and coordinated Close Circuit TV inspection services to determine the cross connections of the storm sewer to the sanitary sewer. A written report was provided summarizing the deficiencies found and provided a written recommendation for corrections that included a preliminary cost estimate for construction.

Sanitary Sewer Improvements Phase II, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system extensions for the Shinnston Sanitary Board. The project consists of the extension of gravity sewer collection and transmission system into areas outside of the City of Shinnston corporate limits to provide public wastewater treatment to approximately 170 new customers. The project area encompasses areas know as Drain Hill, WV20 (Haywood Road), Gypsy Hill, and Gypsy Hill Road. The new system will include six new duplex pump stations and will transport customer wastewater to the City of Shinnston existing wastewater treatment plant.

Sanitary Sewer Improvement Project, City of Grafton

Steve was the Project Engineer for investigating and recommending sanitary sewer improvements that were necessary for compliance with the City of Grafton's Long Term Control Plan (LTCP). The planned improvements included the installation of a new sanitary collection system in the older downtown area of the city that currently has a combined storm/sanitary system. The project will include approximately 10,000 LF of line installation, along with 54 manholes.

Wastewater System Improvements, Town of Franklin

Steve prepared for submission to the West Virginia Infrastructure Jobs and Development Council for a preliminary engineering report detailing the proposed upgrades and improvements to the Town of Franklin's existing 200,000 GPD lagoon system wastewater treatment plant. The project also included collection system improvements by means of internal pipe lining systems and the installation of the new manholes within the Town's older downtown collection system. Steve also provided final design of the proposed improvements.

Kingmill Valley PSD Sewer Upgrades Phase II, KMOVPSD

Steve prepared the preliminary engineering report for the submission to the West Virginia Infrastructure Jobs and Development Council for the design and construction of a new wastewater collection system for the Millersville area of Pleasant Valley, West Virginia. The project also included the design of upgrades to nine existing wastewater pumping stations. Preliminary engineering report included preliminary engineering design, cost estimates, and proposed funding scenarios.

Sanitary Sewer Improvements Phase I, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system improvements for the Shinnston Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspections of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

Sanitary Sewer Improvements, City of Fairmont

Steve was the Project Engineer for the preliminary and final engineering design services for the sanitary sewer system improvements for the Fairmont Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspection of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted

alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

Dakota/Meredith Springs Wastewater System Extension, City of Fairmont

Steve was the Project Engineer for the planning, design, and construction inspection services for a sanitary sewer extension serving approximately 100 residences in the Meredith Springs/Dakota Camp Area within the City of Fairmont service area. The project also included the preparation of a facilities plan and funding applications for submission to the West Virginia Department of Environmental Protection. Design services included the routing and design of a gravity sewer system, manholes, lift stations, and all appurtenances, the preparation of specifications, bidding, and contract documents, solicitation of bidders, and recommendation for award. Steve was also responsible for providing construction management services and overseeing construction inspection services including constructability review, project inspection, contractor pay request reviews and as-built drawing preparation.

Town Of Flemington Sewer System, Town of Flemington

Steve was responsible for the preparation of the preliminary engineering report, funding applications, overall design, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control for a sanitary sewer collection and treatment system. The project consisted of nearly six miles of gravity and pressure collections lines. The project also included the design and construction of four sewage lift stations and a 50,000-GPD extended aeration wastewater treatment plant. Other responsibilities included the acquiring of a wasteload allocation, West Virginia Public Service Commission certificate, West Virginia Division of Environmental Protection National Pollutant Discharge Elimination System permit, West Virginia Division of Highways permit and all other permits necessary for construction.

Town of Farmington Wastewater Improvements, Town of Farmington

Steve performed inflow and infiltration investigation by means of visual inspection, smoke testing, dye testing, and television video. Steve was also responsible for overall design of improvements, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control. Steve provided construction management duties during the construction phase of improvements that included the construction of a 125,000-GPD oxidation ditch wastewater treatment plant.

Water

Kanawha Falls Water System Improvements, Kanawha Falls PSD

Steve was the Project Manager for the preliminary design and detailed design services for a water system extension project to provide potable water service to approximately 50 new customers in the Kanawha Falls and Boonesborough area of Fayette County, West Virginia. The project includes the construction of a new distribution system and a 30 GPM hydro-pneumatic booster pump station.

Water System Improvements Phase II, City of Shinnston

Steve was the Project Manager for the preliminary and final engineering design services for the replacement of approximately 11 miles of existing 10" cast iron

water line with new 12" PVC water line from the City's water treatment facility to the connection point in the City limits. Preliminary engineering services included the planning of proposed line replacement improvements, feasibility studies, and assistance in obtaining project funding. Final design included the line replacement, the design of a Johnson Screen at the raw water intake, and bid package preparation.

Stonewood Water System Improvements, City of Stonewood

Steve was the Project Manager for conducting a water loss study for the City of Stonewood that identified that the unaccounted water loss ranged on average from 15 to 30 percent. The water loss study included the review of the existing system data, acoustical testing, correlation testing, pressure evaluations, evaluation of break reports and review of the billing records. Steve also provided oversight of design for the proposed improvements. The project was designed for the replacement of the 50 year old existing water distribution system throughout the City of Stonewood's residential communities. The construction was completed in 2015.

Jane Lew Water System Improvements, Jane Lew PSD

Steve was the Project Manager for the design and construction of approximately 11,500 LF of two-inch galvanized waterline including valves, the removal and replacement of 25 existing gate valves, the installation of 17 new gate valves in the existing distribution system, and installation of 13 bypass meters. The project also included the installation of an eight-inch diameter river crossing pipe to replace an existing crossing, the installation of a supervisory control and data acquisition (SCADA) controlled solenoid valve station and booster chlorination station. Additionally, the project included the extension of 1,500 LF of two-inch polyvinyl chloride water line and a 37 GPM booster pump station to provide service to six new customers and included the fencing of the existing 100,000 gallon water storage tank for security purposes.

Fairmont-Mannington Water Main, City of Fairmont

Steve was the Project Manager for the planning, design, and construction inspection of a 13-mile water main extension from the City of Fairmont to serve the City of Mannington. The project included mapping, route surveys utilizing GPS, assistance in obtaining project funding, design of the 13-mile, 12-inch, and 16-inch water main, preparation of specifications, bid and contract documents, right-of-way acquisition, construction surveys, and construction management and inspection services.

Alpine Lake Water System Improvements, ALPUC

Steve was the project engineer for the preliminary design, detailed design, and construction services for a water system improvement project. Improvements to the water system included the design of four booster pump station upgrades, distribution line replacement, and storage tank improvements. The project also included the planning and design of two new source wells and the design and construction of a new potable water treatment facility.

Water System Improvements, City of Shinnston

Steve was the Project Engineer for the planning, design, and construction

inspection services for a water distribution system upgrade for the City of Shinnston. Services included the mapping and hydraulic modeling of the existing water distribution network, the identification of problem areas, forecasting future water usage for projected growth areas and the completion of funding applications, detailed design drawings, specifications, bidding, and contract documents, solicitation of bidders and recommendations for award. CEI services include constructability reviews, construction management, project inspection, processing routine pay requests and the preparation of as-builts drawings. The project successfully reduced unaccounted for water from 35% to 10%.



&estimate, LLC
Cleveland, OH

COST ESTIMATING SERVICES

One of our greatest strengths is estimating. **&estimate** has developed over \$10 billion of construction project cost estimates on all types of construction nationally and internationally. As an independent service, we provide in-house architectural, civil, structural, mechanical, electrical, plumbing, and fire protection estimating to Owners and architectural firms nationally. Our in-house capabilities in estimating are of particular significance when the Value Engineering process is undertaken because of our first-hand knowledge of all aspects of the building construction. Accurate and well-defined cost estimates are critical to the success of every project. Our estimators specialize in providing accurate construction cost estimates from the initial programming phase through the detailed design and construction phases. Our estimating procedures are developed to ensure that each element of the project is well defined and accounted for in the estimate format.

Our estimating efforts begin with the Program Level estimates of the proposed project. These estimates serve as our "Cost Models" for the project and will be updated to reflect the additional information and details included on the Schematic, Design Development, and Construction Documents. We work with the design team and the Owner throughout the design phase to ensure design components align with available funds. Our final estimate, prior to bidding, is used to evaluate the competitive bids received for the various elements of work.

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Cleveland, OH 44114 216.619.1700



What We Will Do For You

&estimate offers construction consulting services from your idea moment through completion when the owner is handed the keys. For over 30 years, our clients have depended on us to provide the equilibrium between the owner's budget and the design.

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- Value Engineering
- Building Assessments
- Constructability Review
- FFE Estimating and Procurement
- Scheduling
- Cost Segregation
- Life Cycle Costing

Our Areas of Expertise:

- Education, both Public and Private
- Healthcare
- Governmental
- Community/Recreation Centers
- Corporate
- Performing Arts
- Museums
- Historical Restoration
- Senior Living
- Hospitality
- Housing
- Religious
- Non-Profit
- Mixed-Use
- High Performance/Energy Efficient Construction

Firm at a glance

Legal Name
&estimate LLC

Established
1988 - 30 years in business

Website
www.pcscompanies.com

Number of Employees

Project Executives	1
Project Managers	6
Project Engineers	1
Project Superintendents	4
Cost Estimators	7
Others	7



Secret Arboretum and Gardens Learning and Resource Center

Wooster, Ohio

&estimate provided a Concept Cost Estimate for the 6,840 square foot interior/ exterior renovation of an existing garage into the new learning/resource center. This project underwent multiple changes throughout our estimating efforts; the final construction document came in at \$1,513,821. The interior renovation consists of an orientation area, offices, kitchen, storage space, a large multi-purpose room dividable into two smaller rooms - slated for use by OSU classes and arboretum special events. A display corridor extending from the building's existing entryway to the east end for hanging murals, photograph, etc., was also included.

Construction Cost: \$1.9 Million

Architect: Van Auken Akins Architects



Wolf Trap National Park

Vienna, Virginia

&estimate worked with the Design Team in estimating this project from the Design Development phase through the final Construction Development phase with a strong emphasis that the project bid on budget, as well as be built on time. The specific scope of the project included additions and renovations to the existing maintenance facilities, as well as, extensive stormwater based sitework improvements. Underground stormwater detention and bioretention swales were incorporated to alleviate existing stormwater runoff problems that existed in the maintenance yard vicinity. Work was complete without any interruption to the National Parks maintenance operations.

Construction Cost: \$390,000

Architect: Westlake Reed Leskosky



Blossom Music Center - House Left Improvements

Cuyahoga Falls, Ohio

&estimate provided provided conceptual and design development cost estimates for this \$2.2 million construction of new ADA-compliant restroom facilities and concession area site lighting upgrade. The estimates were used to determine the overall budget of the project and to assist with Value Engineering to help the project stay on the estimated budget. The project was approved for funding by the Ohio Controlling Board.

Construction Cost: \$2.2 Million

Architect: Westlake Reed Leskosky



Patuxent River Naval Air Museum and Visitor Center

Lexington Park, MD

&estimate provided SD, DD and CD level cost estimating services for the new 20,858 square foot Patuxent River Naval Air Museum and Visitor Center. The new building, with a focus on the research, development, test and evaluation environments of naval aircraft, includes an exhibit space, simulators, support spaces and offices, a gift shop and displays 22 one-of-a-kind aircrafts.

Construction Cost: \$5.3 Million

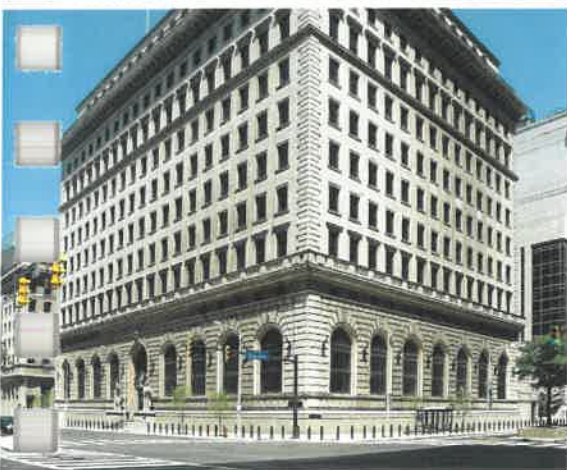
Architect: Westlake Reed Leskosky

WV Cost Estimating Experience

- Harrison-Taylor 911 Center, Clarksburg, WV
- Martinsburg VA Medical Center, Martinsburg, WV
- West Virginia State Office Building, Clarksburg, WV
- West Virginia State University, Fleming Hall, Institute, WV
- West Virginia University Medicine
 - Clinical Lab Building
 - Heart Lab - Foundating Pricing
 - New Ambulatory Surgery Center
- West Virginia University, Morgantown, WV
 - Basketball Practice Facility
 - Colson Hall
 - Downtown Housing Project
 - Evandale Campus Redevelopment
 - Healthcare Outpatient Surgery Center
 - Heart and Vascular Institute Renovations
 - Maclin Hall
 - Nursery School
 - Physical Education Building
 - Student Health Center and College of Physical Activity and Sport Science (CPASS)

K-12 Education

- Berkeley County Schools
 - New Middle School, Gerrardstown, WV
 - Spring Mills High School, Spring Mill, WV
- Brooke County Schools, Wellsburg, WV
- Cabell County Schools, Huntington East Middle School, Huntington, WV
- Calhoun County Schools, Arnoldsburg Elementary, Orma, WV
- Gilmer County Schools, New Gilmer Elementary, Glenville, WV
- Hancock County Schools
 - New Cumberland, Elementary School, New Cumberland, WV
 - Weirton Elementary School, Weirton, WV
- Jackson County Schools, Kenna Elementary School, Kenna, WV
- Jefferson County Schools, Harpers Ferry Middle School, Harpers Ferry, WV
- Khanawha County Schools, Charleston, WV
 - West Side Elementary School
 - Edgewood PK-5 Elementary School
- Lewis County Schools, Lewis-Gilmer InterCounty Elementary School, Linn, WV
- Marion County Schools, East Fairmont Middle School, Fairmont, WV
- Marshall County Schools, Moundsville, WV
 - Cameron Elementary, Jr./Sr. High Vocational Buildings Roof Replacements
 - Hilltop Elementary School Athletic Fields Layout
 - New Hilltop Elementary School and Athletic Field





Government Cost Estimating Experience

(continued)

- Central Elementary School Combined
- Moundsville Middle School Additions
- Cameron Elementary School, Cameron, WV
- McNinch Elementary School
- John Marshall High School Proposed Natatorium, Glen Dale, WV
- Cold Storage Building
- John Marshall High School Proposed Sports Complex, Glendale, WV
- Monarch Stadium Improvements, Glendale, WV
- Cameron Fieldhouse, Cameron, WV
- John Marshall High School Concession Additions, Glendale, WV
- Mercer County Schools, Oakvale Elementary School, Princeton, WV
- Mineral County Schools, Keyser PK-4 School, Keyser, WV
- Mingo County Schools, Burch Pre-K-8 School, Delbarton, WV
- Monongalia County Schools
 - Suncrest Elementary School, Morgantown, WV
 - Marsh Fork Elementary School, Marsh Fork, WV
 - Eastwood Elementary, Morgantown, WV
- Nicholas County Schools, Gauley River Elementary School, Craigsville, WV
- Putnam County Schools, Winfield Middle School, Winfield, WV
- Preston County Schools
 - South Area PK-8, Denver, WV
 - Central Preston Middle School, Kingwood, WV
- Raleigh County Schools
 - Marsh Fork Elementary School, Marsh Fork, WV
 - Beckley Stratton Middle School, Beckley, WV
 - Crab Orchard Elementary, Crab Orchard, WV
 - Shady Spring High School, Shady Spring, WV
- Wayne County Schools
 - Ceredo Kenova Pre K-5 School, Kenova, WV
 - Wayne High School, Wayne, WV
 - Fort Gay PK-8, Fort Gay, WV
 - Crum Elementary School, Crum, WV
- Wetzel County Schools, New Martinsville, WV
- Wood County Schools, Parkersburg, WV
 - Parkersburg High School, Parkersburg, WV
 - Williamstown High School, Williamstown, WV
 - South Parkersburgh High School, Parkersburg, WV
- Wyoming County Schools
 - Huff Consolidated Elementary School, Hanover, WV
 - Pineville Elementary School, Pineville, WV



MIKE ADAMS, LEED AP BD+C **vice president / lead M/E/P estimator**

Mike leveraged his hands-on maintenance and repair experience with plant operation systems including HVAC, electrical, plumbing and technology systems, gained from 11 years as a Facility-Services Technician with Lake Health Systems, to make a career leap into the world of cost estimating. He joined PCScompanies in 1997 as an estimator. Mike is a Certified Environmental Journeyman and Certified Refrigeration and Air Conditioning Technician and possesses additional certifications dealing with design, programming, graphics and repair of energy management systems. His invaluable experience and knowledge combined with his willingness to mentor make him an asset on all &estimate endeavors. Today Mike is our Lead Estimator and is responsible for the oversight of all mechanical, electrical and technology system estimates. Mike has estimated over \$10 Billion construction projects worldwide and maintains security clearances through the Department of Defense.

Education:

Westside Institute of Technology
Lake Health Systems

Registrations:

LEED Accredited Professional
Certified Journeyman
Bloodborne Pathogens
Fire, Safety & Emergency Procedures
Hazard Communications
Intro to Electrical Safety - OSHA 29
CFR1929
Personal Protective Equipment

Memberships:

American Society of Heating,
Refrigerating and Air Conditioning
Engineers, Inc. (ASHRAE)
Construction Specifications Institute
(CSI), Past President
Association of the Advancement
Cost Engineers International
(AACE International)

Speaking Engagement Passion:

Building Automation

Relevant Project Experience:

- Air Force Bases:
 - Lackland AFB, San Antonio TX
 - Little Rock AFB, Jacksonville, AR
 - NAS Pensacola, FL
 - Randolph AFB, Universal City, TX
 - Vance AFB, Enid, OK
 - Wright Patterson AFB, Dayton, OH
- Schofield Barracks Army Bases, Oahu, HI
- Allen Correctional Institution, Lima, OH
- Architect of the Capitol, Washington, DC:
 - Library of Congress
 - John Adams Building
 - Thomas Jefferson Building
 - James Madison Memorial Building
 - Capitol Power Plant
- Arizona Army National Guard, AZ
- Avon Lake Safety Center, Avon Lake, OH
- Bay Village City Hall, Bay Village, OH
- Bedford Fire Station, Bedford, OH
- Bedford New Municipal Complex, Bedford, OH
- City of Cleveland, New Police Headquarters, Cleveland, OH
- Cuyahoga County Admin. Headquarters, Cleveland, OH
- Cuyahoga County Port Authority, Cleveland, OH
- Federal Reserve Bank, Cleveland, OH:
 - Entry Steps Replacement
 - Water Heater Tank Replacement
 - East 6th Street Entrance Repair/Replacement
 - Tele-Presence Room
 - Learning Center Restroom
 - Cash Department Renovation
 - Lobby Security/Secure Screening Vesibule
- Perimeter Security
- 6th Floor Tenant Fit-out
- Protection Department Renovations
- Conference Center Space Planning
- Conference Center Space Planning; 9M and 10th Floors
- SDS Department Space Planning Concept
- Cash Portal Renovations
- SCS Modernization Project
- Law Enforcement Unit
- Paying and Receiving Area
- Hydraulic Barriers Upgrade
- Research Department Renovations
- Multi-Year Plan
- General Services Administration (GSA):
 - A.J. Celebrezze Federal Bldg., Cleveland, OH
 - Carl B. Stokes Fed. Courthouse, Cleveland, OH
 - J.P. Kinneary U.S. Courthouse, Columbus, OH
 - J.W. Peck Federal Building, Cincinnati, OH
 - Howard Metzenbaum Federal Bldg., Columbus, OH
 - John W. Bricker Federal Bldg., Columbus, OH
 - Potter Stewart Courthouse, Cincinnati, OH
 - Harry S. Truman Building, Washington, DC
- GCRTA, Cleveland, OH
- Harrison-Taylor 911 Center, Clarksburg, WV
- IRS (Internal Revenue Service), Brooklyn, NY
- Medina County Jail, Medina, OH
- NASA John Glenn Research Center, Cleveland, OH
 - Security Enhancements
 - Warehouse 351 East Addition
 - Warehouse 351 West Addition
 - Intrusion & Institutional Plumbing Repairs
- Parmadale Juvenile Center, Parma, OH
- Russell Township Fire Sta., Russell Township, OH
- West Virginia State Office Building, Clarksburg, WV



BRANDON LAWLOR, LEED AP project executive

Brandon joined PCScompanies in 2004 as a Project Estimator/Engineer and today is President of **&estimate**. He is our Chief Estimator with over 17 years of vast experience in MEP. He has advanced training and strong knowledge base in Architectural, Structural and Civil Engineering. Brandon is the primary contact for all our clients and his responsibilities include all estimating oversight. In addition he provides third party legal opinions as well as project or cost estimating audits and maintains security clearances with the Department of Defense. Brandon has estimated over \$10 Billion of construction projects.

Education:

Bachelor of Science
Bowling Green State University

Registrations:

LEED Accredited Professional
Bloodborne Pathogens
Fire, Safety & Emergency Procedures
Hazard Communications
Intro to Electrical Safety - OSHA 29
CFR1929
Personal Protective Equipment

Memberships:

American Society of Professional
Estimators (ASPE)

Speaking Engagement Passion:

Master Planning and benefits of the
conceptual estimate

Relevant Project Experience:

- Air Force Bases:
 - Lackland AFB, San Antonio TX
 - Little Rock AFB, Jacksonville, AR
 - Randolph AFB, Universal City, TX
 - Vance AFB, Enid, OK
 - Wright Patterson AFB, Dayton, OH
- Schofield Barracks Army Bases, Oahu, HI
- Architect of the Capitol, Washington, DC:
 - Library of Congress
 - John Adams Building
 - Thomas Jefferson Building
 - James Madison Memorial Building
 - Capitol Power Plant
- Avon Lake Safety Center, Avon Lake, OH
- Bay Village City Hall, Bay Village, OH
- Bedford Fire Station, Bedford, OH
- Bedford New Municipal Complex, Bedford, OH
- City of Cleveland, New Police Headquarters, Cleveland, OH
- Cuyahoga County Administrative Headquarters, Cleveland, OH
- Cuyahoga County Juvenile Justice Center, Cleveland, OH
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 - 6th Floor Tenant Fit-out
 - Protection Department Renovations
 - Conference Center Space Planning
 - Conference Center Space Planning; 9M and 10th Floors
- SDS Department Space Planning Concept
- Cash Portal Renovations
- SCS Modernization Project
- Law Enforcement Unit
- Paying and Receiving Area
- Hydraulic Barriers Upgrade
- Research Department Renovations
- Multi-Year Plan
- GCRTA, Cleveland, OH
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 - Howard M. Metzbaum Federal Building, Columbus, OH
 - John W. Bricker Federal Bldg., Columbus, OH
 - Potter Stewart Courthouse, Cincinnati, OH
 - Toledo Public Library, Toledo, OH
 - Toledo Municipal Courthouse, Toledo, OH
 - Harry S. Truman Building, Washington, DC
- Harrison-Taylor 911 Center, Clarksburg, WV
- NASA John H. Glenn Research Center, Cleveland, OH
 - Security Enhancements
 - Warehouse 351 East Addition
 - Warehouse 351 West Addition
 - Intrusion & Institutional Plumbing Repairs
- Parmadale Juvenile Center, Parma, OH
- Parma Library, Cuyahoga County Public Library System, Parma, OH
- Ricerca Bioscience Campus Upgrades, Concord, OH
- Russell Twp. Fire Station, Russell Township, OH
- Shaker Hts. Fire Station No. 1, Shaker Heights, OH
- Westlake Recreational Center, Westlake, OH
- West Virginia State Office Bldg., Clarksburg, WV



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MCA South Facility Upgrades Design
WYK's REPEAT CLIENTELE
REFERENCES



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

WYK Repeat Clientele

WYK Associates, Inc.

Amos Carvelli Funeral Home
ARC of Harrison County
Barbour County Board of Education
Barbour County Commission
Citizens' National Bank of Elkins
City Neon
City of Bridgeport
City of Clarksburg
City of Salem
Corhart Refractories
Daisy Development
Diamond Development
Dominion Exploration and Production
Fairmont State University
Fellowship Bible Church
Greathouse Funeral Home
Harrison County Board of Education
Harrison County Bank
Harrison County Commission
Harrison County Courthouse
Harrison County Senior Citizens
Harrison County YMCA
Health Access
Kappa Sigma Pi
Lewis County Board of Education
Louis A. Johnson V.A. Medical Center - Clarksburg
MVB Bank
North Central West Virginia Airport
Pocahontas County Commission
Quiet Dell United Methodist Church
Stockmeier Urethanes
Arnett Carbis Toothman, LLP (formerly Toothman & Rice)
Town of Addison (Webster Springs)
United Hospital Center
United Summit Center
Vienna Public Library
Webster County EDA
West Union Bank
World Vision



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

References

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Martin Howe, ICMA - CM
(Former, City Manager - Clarksburg, WV)
President - Community Development Corporation - MVB Bank
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Morgantown, WV 26505
304-292-9350

James A. Harris
(Former, County Administrator of Harrison County)
Executive Director - Health Access, Inc.
489 Washington Avenue
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Dr. Judy P. Byers
Director of Folklife Center
Fairmont State University
1201 Locust Avenue
Fairmont, WV 26554
304-367-4861

Brad Leslie
Chief Engineer
WV Department of Natural Resources
324 4th Avenue
S Charleston, WV 25303
304-558-2764

Robert Titchenal
West Virginia Fruit & Berry
3927 Brushy Fork Road
Bridgeport, WV 26330
304-842-8945

Adam Rowh, Financial Advisor
Northwestern Mutual
229 West Main Street #600
Clarksburg, WV 26301
304-624-5400

Tom Whaling
President & CEO
West Union Bank
320 Emily Drive
Clarksburg, WV 26301
304-873-2361

Dr. Jeffrey Browning, DDS
Total Dental
1219 Johnson Avenue Suite 201
Bridgeport, WV 26330
304-842-7591

Patrick Ford
Executive Director
Marion County Industrial Foundation
223 N Spalding Avenue #300
Lebonon, KY 40033
270-692-6002

Reta Griffith
(Former, Pocahontas County Commissioner)
Advocate, Family Refuge Center
213 Coleman Drive Suite B
Lewisburg, WV 24901
304-645-6334

Dr. C. Eric Kirkland, Ph. D, PMP
Executive Vice-President
Salem International University
223 West Main Street
Salem, WV 26426
304-782-5011

Geoff Marshall, CHFM, CHC
Vice-President of Support Services
United Hospital Center
327 Medical Park Drive
Bridgeport, WV 26330
681-342-1220

Gary W. Nickerson
Steptoe & Johnson, PLLC
400 White Oaks Blvd.
Bridgeport, WV 26330
304-933-8163

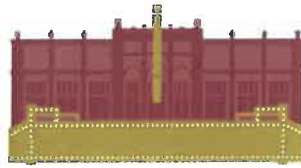
Beau Henderson
President, City Construction Company
284 Factory Street
Clarksburg, WV 26301
304-623-2573



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MCA South Facility Upgrades Design

TESTIMONIALS



ROBINSON GRAND PERFORMING ARTS CENTER

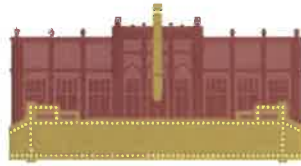
To Whom it May Concern,

The Robinson Grand Performing Arts Center is a historic performance and event facility, with roots dating back to initial construction in 1913. For over 100 years, our facility has provided the North Central West Virginia region with arts and entertainment events, along with facility rentals for social gatherings of all types. Throughout the 1980s, 1990s, and early 2000s, the Robinson Grand experienced a decline in business activity and upkeep, which ultimately led to its permanent closure in 2004.

For many years our regional community and the City of Clarksburg had dreams of how this facility could be renovated, preserved, and functionally brought into the 21st century. Those dreams became a reality in 2014, when the City of Clarksburg purchased the facility and partnered with WYK Associates, Inc. in the consulting, planning, and ultimate renovation/construction over the following years.

WYK's outstanding team, under the direction of James Swiger, led our renovation/construction effort through meticulous historical research, numerous site surveys, and a turn-key plan that involved expert consultants. Work began on the facility in early 2017 and was completed by our Grand Opening on October 20, 2018. We have now been in full operation for just over a year and couldn't be more pleased with the outcome of this project.

WYK's scope involved a myriad of aspects and requirements, which provided functionality for the facility, but also allowed our project to receive New Market and Historical tax credits. These items included restoration and preservation of the historical structures, as well as the design of new buildings to seamlessly integrate into our existing facility and complete ADA accessibility. Additionally, mechanical, fire, audio/visual, and automation systems were completely updated. James and his team were here every step of the way, even going above and beyond their contractual obligations to ensure the best design and implementation.



ROBINSON GRAND

PERFORMING ARTS CENTER

The Robinson Grand was met with much excitement and awe from the regional community upon completion. In addition, the project has received numerous awards. Most recently it won the following:

- 2019 Preservation Alliance of WV Downtown Preservation Award
- 2019 AIAWV Honor Award for Excellence in Architecture & Historic Preservation
- 2019 AIAWV Craftsmanship Award for Excellence in Architectural Detail & Craftsmanship for the brick sculptures in the new West Addition facade
- 2018 Associated Builders and Contractors, Inc. WV Chapter award for Excellence in Construction for Historical Renovation
- 2019 Outstanding Community Impact Award for The Community Affordable Housing Equity Corp. (CAHEC)

I would highly recommend the services of WYK Associates, Inc. for your next project. They are not only skilled and professional, but also provide a personal service that is hard to find at many larger firms. My contact information is listed on the footer below. Please don't hesitate to reach-out to me directly for further information on our beautiful facility or how WYK played an instrumental role in our re-birth.

Sincerely,

A handwritten signature in black ink that reads "Ryan W. Tolley".

Ryan W. Tolley
Executive Director
Robinson Grand Performing Arts Center



CITY OF CLARKSBURG

WEST VIRGINIA

OFFICE OF
CITY MANAGER

November 7, 2016

James Swiger, President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Ave.
Clarksburg, WV 26301

Re: Letter of Appreciation

Dear James:

It is with great pleasure that I am writing this letter of recommendation and appreciation for James Swiger and the entire team at WYK Associates, Inc. I have thoroughly enjoyed working with Mr. Swiger and his staff. James and his team are courteous and professional and have been dedicated to even the smallest of details for each project they have completed for the City of Clarksburg. Additionally, they have ensured the projects were always on time.

Over the years, James and the staff at WYK Associates, Inc. have completed multiple projects for the City of Clarksburg including a Police Sub-Station in Laurel Lanes, three (3) Fire Stations in Clarksburg which include the Central Fire Station in downtown, and two (2) sub-stations; the East End and North View Stations, as well as designing the Jackson Square Parking Facility. Jackson Square is used for downtown parking with an outdoor venue utilized for outside events. Everything from farmers' markets, wedding receptions, holiday events and festivals like the West Virginia Italian Heritage Festival's Pasta Cook-Off. I am proud to share that WYK was awarded the AIA West Virginia Merit Award for Achievement in Architecture for this project.

I personally look forward to working with WYK Associates, Inc. again and would highly recommend them to other local governments for use on their projects.

Sincerely,


Martin Howe, ICMA-CM
City Manager

UPSHUR COUNTY COMMISSION

Upshur County Administrative Annex
91 West Main Street, Suite 101 • Buckhannon, West Virginia 26201

Telephone: (304) 472-0535
Telecopier: (304) 473-2802

TDD Numbers
Business: 472-9550
Emergency: 911

March 10, 2017

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Re: Upshur County Courthouse Roof and Chimney Projects

To Whom It May Concern:

We recently had the pleasure of working with WYK Associates, Inc. on the roof and chimney restoration for the Upshur County Courthouse in Buckhannon, WV. WYK was instrumental in coordinating with West Virginia's State Historic Preservation Office (SHPO) to ensure the new designs were compatible with the historic character of the building.

For the roof, new metal shingles and flashing replaced existing materials surrounding the bell tower dome and at the front gable. The remaining shingles on the main roof were cleaned and coated with a fibered aluminum coating. For the two chimneys, the existing brick was dismantled and rebuilt from the roof up. Both chimneys were restored to their existing height using similar materials and topped with new stainless steel caps.

WYK brought their experience, knowledge, and professionalism to both projects as they expertly developed the new design, created the construction documents, facilitated the bidding process, and administered the construction contract. WYK's attentiveness and responsiveness contributed to both projects being successfully completed on time and within budget.

The Upshur County Commission is fortunate to have worked with a competent architect such as WYK Associates and looks forward to working with them again.

Sincerely,

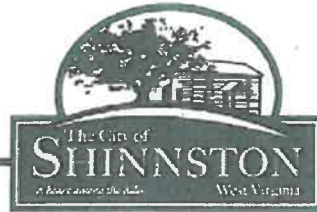


Carrie L. Wallace

Upshur County Administrator

An Equal Opportunity Employer

40 Main Street
Shinnston, WV 26431-1198



Phone (304) 592-5631
Fax (304) 592-1597

February 8, 2012

To Whom It May Concern,

The City of Shinnston has worked with WYK Associates, Inc., on a variety of projects and has always been impressed by their level of skill, professionalism and commitment to quality. The staff exhibits an expertise in their field and is attentive and attuned to the community they are working in.

Current projects that WYK Associates, Inc., are assisting the City of Shinnston with include the design and construction of the Shinnston Community Building. This \$5 million building is located at the entrance to the City's historic downtown district and WYK have excelled at designing a building sensitive to its location and history, yet able to carry the City into the twenty first century. From initial stakeholder meetings to design presentations, the team at WYK listened to the community's needs and responded accordingly.

The City of Shinnston is also utilizing the planning and design aspect of WYK Associates, Inc., on the former G.C Murphy building project. This project is a detailed feasibility study to assist the City in deciding whether to purchase the hundred year old property. The WYK team has researched the current condition, reviewed code requirements with regard to future development and developed a plan for the highest and best use of the building.

In 2009, WYK Associates Inc., designed and managed the renovation of the City of Shinnston Museum. The Museum now has excellent display space, coupled with galleries for exhibits, and a spacious meeting area. WYK's ability to design space to serve multiple purposes has meant that the Museum is used for government meetings and receptions as well as traditional preservation uses.

The City of Shinnston has been very pleased to partner with WYK Associates, Inc., on these and other projects. From architects to administrative support personnel, the firm exhibits a high commitment to quality and customer satisfaction.

Yours truly,

Emma Clarke
Finance Officer



Webster County Economic Development Authority

139 Baker Street • Webster Springs, WV 26288 • Phone: (304) 847-2145
Email: wcd@WebsterWV.com • Website: www.WebsterWV.com

February 8, 2016

Mr. James Swiger, President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

It is my pleasure to recommend WYK Associates, Inc. for your next project. I have had the privilege of working with them on a variety of projects over the last decade. The Information Manufacturing Corporation (I.M.C.) Building in Cowen at our Industrial Park utilizes a geothermal heating and cooling system. The I.M. C Building is a 17,000 S.F. structure with an abundance of daylight in the front office area and houses a spacious open structure work space. This project won a Merit Award in Architecture from the WV Chapter of the American Institute of Architects (WVAIA). The 21,000 S.F. Webster County multi-tenant building was built following completion of the I.M.C. in the same development. The multi-tenant building was designed to accommodate a variety of manufacturing spaces and was uniquely designed to be divided or used as a whole.

Recently we have worked with WYK for the interior renovations to our railroad depot building in Webster Springs and R.V. Park adjacent to the depot. This project is part of a master plan to convert this area into a small commercial/recreation area and possibly a trail head for a local trail system in the near future.

WYK has always been diligent in answering any questions or concerns we might have had. In working with WYK on the depot they worked very hard at designing it to meet our very tight budget constraints. The project was funded by a matching grant and there were no additional monies above and beyond the grant. WYK worked with us to give us the most "bang for the buck" to prepare the depot for its future use as a hub for the adjacent facilities.

We were pleased to work with WYK on these projects and we look forward to working with them again in the future. Please do not hesitate to contact me for additional information or questions.

Sincerely,

A handwritten signature in cursive script that reads "Geary Weir".

Geary Weir
Executive Director



131 WEST MAIN ST. • BRIDGEPORT, WEST VIRGINIA 26330-6310
Phone: (304) 842-8251 • Fax: (304) 842-8254 • www.bridgeportwv.com
CHUCK FEATHERS • BRIDGEPORT FIRE DEPARTMENT
Chief

September 20, 2010

Mr. James B. Swiger
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear Mr. Swiger,

It has been almost a year now since we moved into our new Public Safety Substation and I wanted to take a moment to thank you for all you did in insuring the success of our building. It is more than we expected when we first started this project. Your detail to our requests as we started this project is what has made it such a workable project. You took our words on what we wanted and turned them into a state of the art public safety building that is not just pleasing to the eye but very functional.

Throughout the project as problems rose you were quick to find answers that worked for our needs and decisions evolved around our needs instead of what worked best for others.

Thank you again for all the great work you did for us and the building stands as a tribute to you and your firm for a job well done. If I can be of assistance to you in the future just let me know.

Sincerely,

Charles A. Feathers, Chief

Bridgeport Fire Department



February 5, 2016

To whom it may concern:

I am very pleased to write this letter on behalf of WYK Associates, Inc. of Clarksburg. Our century old school building was in desperate need of additional classroom and office space. We were faced with a sudden increase in enrollment for the upcoming school year for the Pre-Kindergarten class. The Wheeling-Charleston Diocese asked me to contact WYK to explore solutions to utilize the most space within our tight budget and timeframe. The Diocese spoke very highly of WYK as the firm had recently completed a new parish center for our associated church and they also performed other renovations to our school as well as our neighboring Notre Dame High School.

James Swiger and his staff diligently studied our building, exploring every option of gaining Pre-Kindergarten classroom space. Another challenge of the project was the requirement of the Pre-K to be located on the main floor for direct exiting requirements. The ultimate solution was to move the principal's office to the center of the school, utilizing the back of the oversized existing auditorium, under what was once a balcony. This created four new private offices for our administration in addition to a much needed conference room. The old office space was removed, thus expanding the adjacent classroom into that area. This kept the Pre-K on the main floor, made our offices more centrally located and increased visibility and security to all three entrances to the main floor level. They kept insisting they wanted to solve as many design issues within the school as they could while doing this renovation. They did just that!

WYK's staff was very professional, experienced, thorough and timely. They produced a wonderful design that fit within our budget and allowed for minimal disruption to the school. They worked closely with the contractor, which assisted him in completing the work in our shortened summer vacation. It is without reservation that I highly recommend WYK Associates, Inc. for your project. I can now see why the Diocese asked me to contact WYK to execute this work.

Sincerely,

Nicole A. Folio, M. Ed.
Principal



DR. MARK A. MANCHIN
Superintendent

HARRISON COUNTY SCHOOLS

408 E. B. SAUNDERS WAY
POST OFFICE BOX 1370
CLARKSBURG, WEST VIRGINIA 26302-1370
(304) 326-7300
FAX (304) 624-3361

BOARD OF EDUCATION
DOUGLAS K. HOGUE, *President*
FRANK DEVONO, JR. *Vice President*
MICHAEL DAUGHERTY
GARY M. HAMRICK
KRISTIN MESSENGER

August 18, 2015

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

It is my pleasure to write this letter on behalf of WYK Associates, Inc. and recommend Mr. James Swiger and the WYK Associates, Inc. team.

For over 20 years I have worked with WYK team on numerous projects for Harrison County Schools and they have proven to be a valuable asset to the school district. We have greatly benefitted from the expertise and architectural skill of WYK Associates. James and his team are true professionals and bring important architectural knowledge and outstanding management skills to their projects. James and his team are active supporters of Harrison County and show leadership in our community.

James and the team at WYK have always been conscientious of financial constraints and have always delivered superior service in a timely manner for Harrison County Schools. Harrison County Schools would not hesitate to work with WYK Associates on future projects, and I would recommend them to other organizations without reservation.

Please do not hesitate to contact me for further information or questions.

Sincerely,

A handwritten signature in blue ink that reads "Neil Quinn".

Neil Quinn, Director
Harrison County Schools



1219 Johnson Avenue, Suite 201
Bridgeport, WV 26330

304-842-7591

To whom it may concern:

It is with great pleasure that I am writing this letter of recommendation for James Swiger and the entire WYK team.

When I was starting my building project, I asked several people for recommendations. I spoke with contractors, businessmen, and people who had been through construction projects. Overwhelmingly, the one name that was mentioned was James Swiger.

Every aspect of the project that James was involved with was done with great care and excellence, from the initial design of the building, to coordinating all of the work, and even now that the building is complete. James was and is available to answer my questions and to help in any way that I ask. I honestly cannot remember a single incident that James or a WYK team member was not available. I feel that his knowledge of and rapport with the engineers, contractors, and inspectors was a tremendous asset to the project. His attention to detail would amaze me. It is obvious that he takes great pride in his work. His professionalism and level of commitment is beyond what would be expected. I would visit my construction site every evening after work and on the weekends, and often times James would show up.

Finally, as the saying goes, the proof is in the pudding. The finished product is a thing of beauty. My patients are always commenting about the building. My building is the perfect space for my dental practice as well as the other tenants.

Please feel free to contact me if I can be of further assistance.

Sincerely,

Jeffrey W Browning, DDS



400 White Oaks Boulevard
Bridgeport, WV 26330
(304) 933-8000 (304) 933-8183 Fax
www.steptoe-johnson.com

Writer's Contact Information
(304) 933-8163
Gary.Nickerson@steptoe-johnson.com

March 10, 2016

To Whom It May Concern:

I am presently the managing partner of the Bridgeport, West Virginia, office of Steptoe & Johnson PLLC, a national law firm of over 300 lawyers in six states. S&J has its roots in Harrison County, West Virginia, where it was formed in 1913 in Clarksburg. Our firm maintained its primary office in downtown Clarksburg for almost 100 years.

Recognizing that the facility in Clarksburg could no longer meet the needs of a growing national law firm, in 2008, we made the decision to build a new home office, strategically located in Bridgeport, West Virginia, along the I-79 Corridor. We retained SKB Architects, a firm known worldwide for the design of law firm buildings. Because SKB was not local to this area, both SKB and our firm recognized the critical need to have a local architectural firm be actively involved in the design and construction of the 80000 square foot state-of-the-art office building. Without hesitation, we recommended WYK Associates, Inc. to SKB, having known the architects of this firm and the quality of their work for several decades.

Specifically, from day one, WYK performed oversight of the project, serving as an important liaison between SKB, the S&J's building committee and the construction firm. Initially, WYK Associates, Inc. provided a peer review of SKB's design and construction documents prior to the documents being released to contractors for bidding. With SKB and our firm's building committee, WYK was actively involved in the contractor interview and selection process for the \$16 million building, designed to LEED standards. The assistance of James Swiger of WYK was of critical importance to S&J's selection of a contractor and that selection proved to be outstanding. Moreover, WYK attended all construction meetings with SKB, the firm's executive director, the contractor and sub-contractors throughout the course of the construction period. WYK also served as the "eyes and ears" for SKB, making site visits and reporting back to SKB-- on the "off" weeks that SKB was not present at the site-- as a means of quality control as well as verifying construction conditions for SKB. WYK was active in the job site meetings, offering input and solutions to any construction related issues that arose throughout the course of the construction process. In the end, the project was a resounding success for our firm and we moved into our beautiful, state-of-the-art facility, in August, 2010.

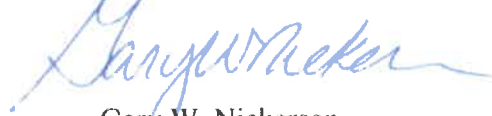
From S&J's standpoint, WYK provided our firm's "safety net" and "comfort zone" throughout the entire process, being a longstanding and respected firm of architects who we have known and trusted for decades. Despite our large size, we had never built our own building, and had leased in all office locations throughout our century of existence. James

March 10, 2016

Page two

Swiger and WYK Associates, Inc. provided a much needed comfort level to our lawyers as well as a level of service and oversight that was of critical importance to the successful completion of the project, on time and on budget. As the office managing member, and as an active member of the S&J building committee, I cannot imagine our law firm completing this beautiful facility without WYK in our corner. Should you have any questions, please feel free to call me.

Very truly yours,



Gary W. Nickerson

GWN
7133013.1



**HARRISON COUNTY YMCA
Lowndes Hill Park
P.O. Box 688
Clarksburg, WV 26302-0688
304-623-3303**

August 14, 2015

To whom it may concern:

WYK Associates serve their clients with thoughtful planning; creative design; and credible engineering. Their professional skill is underscored by impeccable character and generosity to their community.

Commending WYK Associates to prospective clients comes from personal experience and observation of projects completed for others. Their talent and high standards will serve you well.

Sincerely,

MX

D. Max Francis
Interim Executive Director

August 13, 2015

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James,

I would like to take this opportunity to express our satisfaction with Premier Bank's Flatwoods Branch. I was the Executive Vice President of the Bank of Gassaway when the branch was constructed and all of us at the Bank of Gassaway were well pleased with your design and project management of the branch.

The branch stands out from the other businesses in the area and we regularly are complimented on its appearance. The branch is very functional and it serves our customers well.

Thank you for your excellent work on the project.

Jim McQuain
Senior Vice President
304-364-5138 ext 1701
jimmy.mcquain@premierbankinc.com





327 Medical Park Drive | Bridgeport, WV 26330 | (681) 342-1000

July 16, 2015

Mr. James B. Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James,

Please consider this letter my recommendation of you and the staff at WYK Associates based on the projects completed for United Hospital Center. UHC was pleased to work with WYK on a variety of projects at our hospital facilities and we were impressed with your level of skill, professionalism, and commitment to quality. The staff at WYK exhibits a high-level of expertise in their field and was attentive to the needs of the hospital and our objectives.

United Hospital Center hired WYK Associates, Inc. to redesign two existing physician office suites in our multi-tenant facility and the jobs included a complete demolition of the existing offices. In addition to the multi-tenant building, WYK also renovated United Hospital Center's Cardiac Rehabilitation Center, Physical Therapy Suite, and Sleep Center.

I am confident that the work completed by WYK Associates, Inc. at United Hospital Center will be instrumental in better serving our patients and community and we are pleased with the results. I would be happy to recommend WYK and express my pleasure in working with the firm on the various projects at United Hospital Center. I would also welcome the opportunity to work with WYK Associates, Inc. again in the future.

Sincerely,



Geoff Marshall
VP Support Services

BOB TRICKETT

Cadillac Buick GMC Inc.

GMC



P.O. Box 609, Route 50, East • CLARKSBURG, WEST VIRGINIA 26301 • (304) 624-6594

February 5, 2016

Mr. James Swiger
President and Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To whom it may concern:

It is with great pleasure that I am writing this letter of recommendation for James Swiger and the entire WYK Associates, Inc. team.

WYK Associates, Inc, renovated the Bob Trickett Cadillac Buick GMC dealership located on old Bridgeport Hill. Throughout the entire process, WYK was available any time to answer any questions or concerns I had. WYK was able to complete our project on time and adhere to our budget. WYK had an excellent rapport with the project engineers, contractors and inspectors. Our newly renovated building is easily the most attractive building on Old Bridgeport Hill now.

James and the team at WYK are professional and courteous. I would not hesitate to recommend WYK Associates, Inc. to other car dealerships or businesses for their architectural services.

Please contact me for further information or questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Bob Trickett", written over a large, stylized outline of a signature.

Mr. Robert W. Trickett, Owner
Bob Trickett Cadillac Buick GMC



Health Access, Inc.

489 Washington Avenue • Clarksburg, West Virginia 26301
Phone: 304-622-2708 • Fax: 304-623-9302 • E-mail: healthac@marrr.com • Web: www.healthaccessinc.org

July 10, 2015

James B. Swiger, AIA, NCARB, LEED AP
President / Principal
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

RE: Letter of Recommendation

Dear Mr. Swiger:

Health Access, Incorporated first hired WYK Associates, Inc. in 2010 to design, plan and manage a project to completely renovate the medical clinic located at 489 Washington Avenue in Clarksburg, West Virginia. The project had a total cost of over \$350,000.00 and a very tight time frame of ninety days from start to finish. Another very challenging aspect to our project was the need to keep our Pharmacy operational to fill prescriptions during the entire ninety days of construction. From the outset, WYK Associates exhibited great attention to the details of our operation and our specific space and functionality needs within this medical facility and this was an outstanding feature of our relationship with the company. We found your willingness to make changes in the design phase as required by our budget limitations so helpful in bringing forward the very best design that our agency could afford.

Throughout this entire project, your "hands on" approach in managing the project made this experience very rewarding for our agency Board of Directors, Staff and ultimately for our many patients. The contractors that WYK Associates invited to bid on the project were all top of the line in our area and I'm confident that any one of them would have done excellent work, however we were extremely satisfied with the successful bidder; Elkview Builders, Inc.

In addition to the major renovation project in 2010, Health Access, Inc. once again engaged the services of WYK Associates, Inc. for a smaller project in 2014. That project involved renovation of a space to install a small employee restroom within the clinical spaces and also the modification of five exam room doors to install sound seals that afford privacy and confidentiality of patient-provider discussions in those areas. Again we were delighted with the process in working with WYK Associates in this project which was completed in a timely manner, within budget and without disruption to the operation of the clinic which remained open during the entire project.

James B. Swiger

Page -2-

Please feel free to use Health Access, Incorporated as a reference to any potential clients seeking Architectural, Planning-Design or Project Management services. We can certainly recommend WYK Associates, Incorporated without reservation as we are a very satisfied customer. Thank you again for your efforts to make this beautiful new home for the free clinic and the hundreds of low income uninsured patients we are privileged to serve.

Sincerely,


James A. Harris, Executive Director



James B. Swiger, AIA, NCARB, LEED AP

President/Principal

WYK Associates, Inc.

205 Washington Avenue

Clarksburg, WV 26301

Salem International University has benefited from the expertise, professionalism and friendship of Mr. James Swiger for a number of years. WYK and Mr. Swiger, specifically, have aided the University in planning and execution of renovations. He has helped identify regulations and options as well. He is always mindful of financial constraints and deadlines while delivering quality work products.

He has worked with the community of Salem on a number of efforts sometime as a partner with the University, the Chamber of Commerce and others. Salem International University is pleased to recommend WYK and James Swiger for consideration for any architectural/engineering project that is under consideration. He and his team take pride in their work, and all are conscientious and professional. That reflects on his leadership.

As loyal supporters of the University and the Salem Community, Mr. Swiger and his team are community advocates that we treasure. We would be more than pleased to be contacted if further information is required.

Dan Nelant

President

Salem International University

Keith Bullion

Associate Director of Campus Operations

Salem International University

TOWN OF GASSAWAY

RICHARD M. ROACH, MAYOR

CHERRI WILSON-GERWIG, RECORDER/CLERK

RICK A. BURROWS, SR. CHIEF OF POLICE

COMMON COUNCIL

JIM MALICK

FRANCES CLAYTOR

JIM CRINER

LYNN JEFFRIES

EDNA WILSON

Jordan Garland
205 Washington Avenue
Clarksburg, West Virginia 26301

I am writing to recommend the services of WYK Architects'. WYK did an outstanding job on the restoration of the Gassaway Depot. Their knowledge and attention to detail made the restoration of the Gassaway Depot a success. I feel confident in recommending WYK Architect services. Their work was not only thorough but they were also easy to work with, and willing to take the time to discuss any concerns and responses to any questions.

If you have any further questions please feel free to contact me.

Regards,

A handwritten signature in blue ink, appearing to be 'Richard M. Roach', written over a light blue circular stamp.

Richard M. Roach, Mayor

**416 ELK STREET, P.O. BOX 147
GASSAWAY, WV 26624
304-364-5111
304-364-4003 FAX
THETOWNOFGASSAWAY@FRONTIER.COM**



LEWIS COUNTY SCHOOLS

239 Court Avenue
Weston, West Virginia 26452
Telephone (304) 269-8300
Fax (304) 269-8305

Superintendent
Dr. Joseph L. Mace

February 4, 2016

Board of Education
Paul Derico, President
Debbie Clem
Sylvia McNeish
Robert Mitchell
Michael Monachello

Mr. James Swiger
President/Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

I am writing this letter on behalf of WYK Associates, Inc. and it is my pleasure to recommend Mr. James Swiger and the WYK Associates, Inc. team.

For many years I have worked with the WYK team on multiple projects for Lewis County Schools including the construction of Peterson Central Elementary School and Outdoor Classroom; Roanoke Elementary School; Lewis County High School Bleachers; Lewis County High School Concession Stand; Robert Bland Field House Addition; and security upgrades for the Lewis County Board of Education. Lewis County Schools have greatly benefited from the skills and expertise of WYK Associates, Inc.

James and the team at WYK offer professionalism at its best and I have enjoyed working with them over the years. WYK has always offered sound architectural options while being conscientious of financial constraints. The team at WYK has always been readily available for questions or concerns and has always given Lewis County Schools superior service in a timely manner. Lewis County Schools would welcome the opportunity to work with WYK Associates, Inc. on future projects, and I would strongly recommend them to other School Boards and organizations.

Please do not hesitate to contact me for further information or questions.

Sincerely,

Dr. Joseph Mace, Superintendent
Lewis County Board of Education

March 10, 2011

Mr. James B. Swiger, AIA
President / Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

Dear James:

This letter is in appreciation of all the work WYK Associates has provided to the Pocahontas County Commission and myself over the last year. I have thoroughly enjoyed working with your company and have appreciated the professionalism and dedication you have given our projects.

Due to the historic nature of the Pocahontas County Courthouse I knew there would be surprises in replacing the roof and installing an elevator. WYK was very creative in overcoming these challenges and researching alternatives that would fit within the budget of funds we had to use for this project. I have also enjoyed the consistent and timely communication you provided while I was managing the project for the County Commission. You never failed to respond to a request, and even provided direction when we were at a loss as to how to proceed.

I would highly recommend your company for other projects with local governments or in the private sector.

Thank you again for all your assistance.

Reta Griffith

Sincerely,
Reta Griffith
Former Commissioner, Pocahontas County (1998-2010)
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