

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CE01 ADJ1800000002

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

WYK Associates, Inc.
Company

James Bluff, AIA
Authorized Signature

8/29/17
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: WYK Associates, Inc.

Authorized Signature: [Signature] Date: 8/29/17

State of West Virginia

County of Harrison, to-wit:

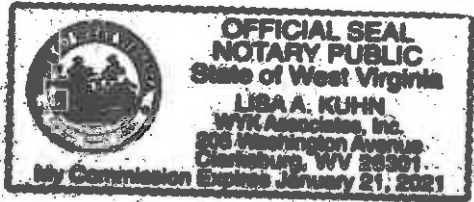
Taken, subscribed, and sworn to before me this 29th day of August, 2017.

My Commission expires January 21, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]
Purchasing Affidavit (Revised 07/01/2012)



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.

Jordan Garland, Dir of Business Devp & Marketing
(Name, Title)
Jordan Garland, Dir of Bus Devp & Mktg
(Printed Name and Title)
205 Washington Ave., Clarksburg WV 26301
(Address)
304-624-6326 / 304-623-9858
(Phone Number) / (Fax Number)
jordan@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
(Authorized Signature) (Representative Name, Title)
James B. Swiger, AIA - President
(Printed Name and Title of Authorized Representative)
08/29/17
(Date)
304-624-6326 / 304-623-9858
(Phone Number) (Fax Number)

EXPRESSION OF INTEREST
for the
WV Army National Guard
Construction & Facilities Management Office
**MASTER PLAN - CAMP DAWSON
TRAINING CENTER**



WYK ASSOCIATES, INC.

ARCHITECTURE • PLANNING

205 Washington Ave., Clarksburg, WV 26301 (304) 624-6326 www.wykarchitects.com

KINGWOOD, WEST VIRGINIA



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JAMES B. SWIGER
AIA, NCARB, LEED AP BD+C
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MASTER PLAN - CAMP DAWSON TRAINING CENTER

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WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center

LETTER OF INTEREST



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

August 29, 2017

Ms. Crystal Rink
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

Re: Master Plan – Camp Dawson Training Center – Kingwood, WV

Dear Ms. Rink:

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 for Structural Engineering of Morgantown; ZDS Design Consultants / Engineering for Mechanical, Electrical and Plumbing Design located out of St. Albans; and GAI Consultants of Charleston for Master Planning / Landscape Architecture Services and Civil Engineering as needed. 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 design team has vast experience with evaluating existing building and multiple buildings and how they relate to one another in the overall master plan of a campus. 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 Camp Dawson 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.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center
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.

“ A 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.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Architecture

Contact Information

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304-623-9858 Fax

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Project Staff

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Canon T. Fancher
Associate AIA
Designer
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Jordan Garland
Director, Business Development
& Marketing
jordan@wykarchitects.com

Memberships



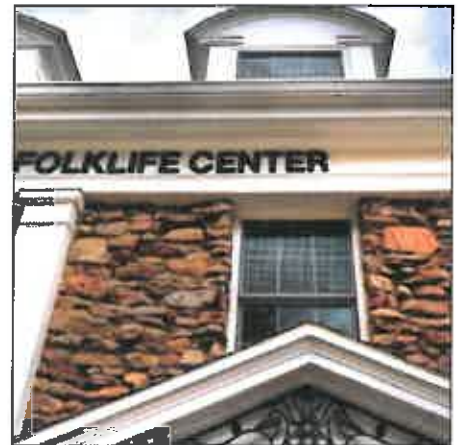
Summary

Established as a full service architecture firm in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 115 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.

“... named “Jackson Square” in honor of Stonewall Jackson ... the structure serves multiple functions and fits in nicely with the historic fabric of downtown.

-Architectural Leaders Magazine, v1 Spring 2011



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

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.



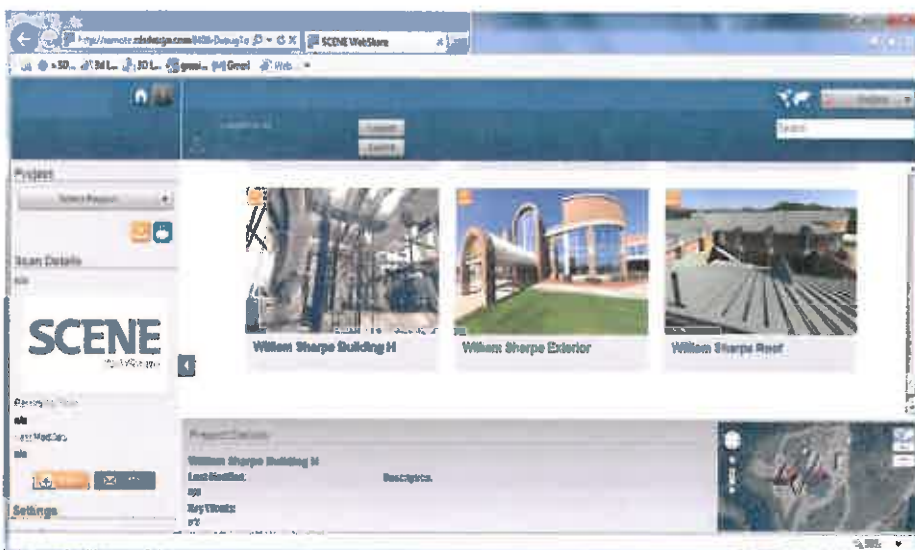
3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Modeling



3D Laser Scanning



WYK ASSOCIATES, INC.

ARCHITECTURE • PLANNING

Company Information

115 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.

- 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.
- 1978 — 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
- 1965 — William E. Yoke, Jr. is a summer college intern
- 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

Publications

WYK Associates, Inc.

West Virginia Executive Magazine 2015 Young Guns Award Recipient

Written by Maggie Matsko | Photography by Tracy Toler on location at I-79 Technology Park

When asked what they want to be when they grow up, every young boy has big aspirations. Many dream at an early age of becoming a fireman, a professional wrestler or a police officer, and as they get older, those dreams tend to shift gears, leading to entirely different paths. James Swiger, the president of WYK Associates, Inc., is one of the few who have made a childhood dream into a life-long career.

When he was 7 years old, Swiger decided he wanted to become an architect. "When I was very young, my grandfather, the business manager of Salem College, took me to construction sites at the college," Swiger remembers. "He worked with architects on construction projects at Salem College and was always curious about construction. One day, he unrolled a set of blueprints for one of the buildings at the college. He pointed out to me that these drawings were the work of an architect. That's when I knew what I wanted to be."

Swiger had several jobs as a teenager that taught him about hard work, responsibility and repercussions. Like many other teenage boys, Swiger's first job was mowing grass in the summer for neighbors, shoveling snow in the winter and splitting firewood. In high school, he also worked part-time at the local dollar store, unloading the trucks when they came in, and he helped his neighbor, the caretaker of the local cemetery, by mowing grass and digging graves by hand.

"The most important thing I learned from those first jobs was responsibility," he says. "The longer we put off mowing the grass, the harder it was to mow the next time, and you could not delay the digging of a grave. I also learned that time marches on. You must get the work done in a timely fashion, or it will have an impact on others."

In 1996, all of those early lessons in hard work and responsibility paid off when he was given an Internship with WYK Associates, Inc. In 2005, he returned to the

firm as a project architect then worked his way up to the top of the company, serving in the positions of project manager, vice president and now president and owner. "I guess you can call it serendipity," he says, "but to me, it was a calling."

Swiger credits most of his success to the guidance he received from his grandparents. When Swiger was 10 years old, his grandfather passed away, and Swiger's grandmother took over the responsibility of encouraging the young boy to pursue his dream of being an architect. "I would like to show my grandfather where I am now," Swiger says. "I found my calling in life for my career because of him, as he showed me my first set of blueprints and took the time to explain them to me."

Swiger also credits his grandparents for instilling in him the importance of community service. His grandfather was involved with the Shriners, Kiwanis, Lions Club, the YMCA board and the local chamber of commerce, and his grandmother, who owned a flower shop, made efforts through her small business to support her neighbors. Today, Swiger continues their legacy of service through multiple roles in the Clarksburg community. He is a member of the board of directors for the Kiwanis Club of Clarksburg, a board member and campaign chair for the United Way of Harrison County, a board member and education committee chair for the Harrison County Chamber of Commerce, a board member of Clarksburg Uptown and an advisory committee member for Salem International University's School of Business. He also holds memberships with the Salem Area Chamber of Commerce and the Clarksburg Elks Club.

"I believe in giving back to the community," he says of his many commitments to his hometown, "because the community is just that: a community. As we are all in this together, doesn't it make sense to make the place you call home the best it can be?"



What is your favorite...?

Color – Blue
Food – Steak
Cartoon Character – Foghorn Leghorn
Ice Cream – Cherry vanilla
Animal – Dog
App – Flashlight
Midnight Snack – Apple
TV Show – "American Pickers"
Movie – "Caddyshack"
Smell – Fresh-cut grass
Sport Team – University of Tennessee
Volunteers
Car – 1972 Jaguar XKE
Pet – German shepherd
Place – Neyland Stadium in Knoxville, TN on gameday

Young
Guns
Class of 2015



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center

PROJECT TEAM



MASTER PLAN - CAMP DAWSON TRAINING CENTER

Team Structure

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Project Team

ARCHITECTURE

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gai consultants

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Allegheny Design Services
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Allegheny
Design Services
Consulting Engineers

MEP ENGINEERS

ZDS Design / Consulting Services
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St Albans, WV 25117
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www.zdsdesign.com



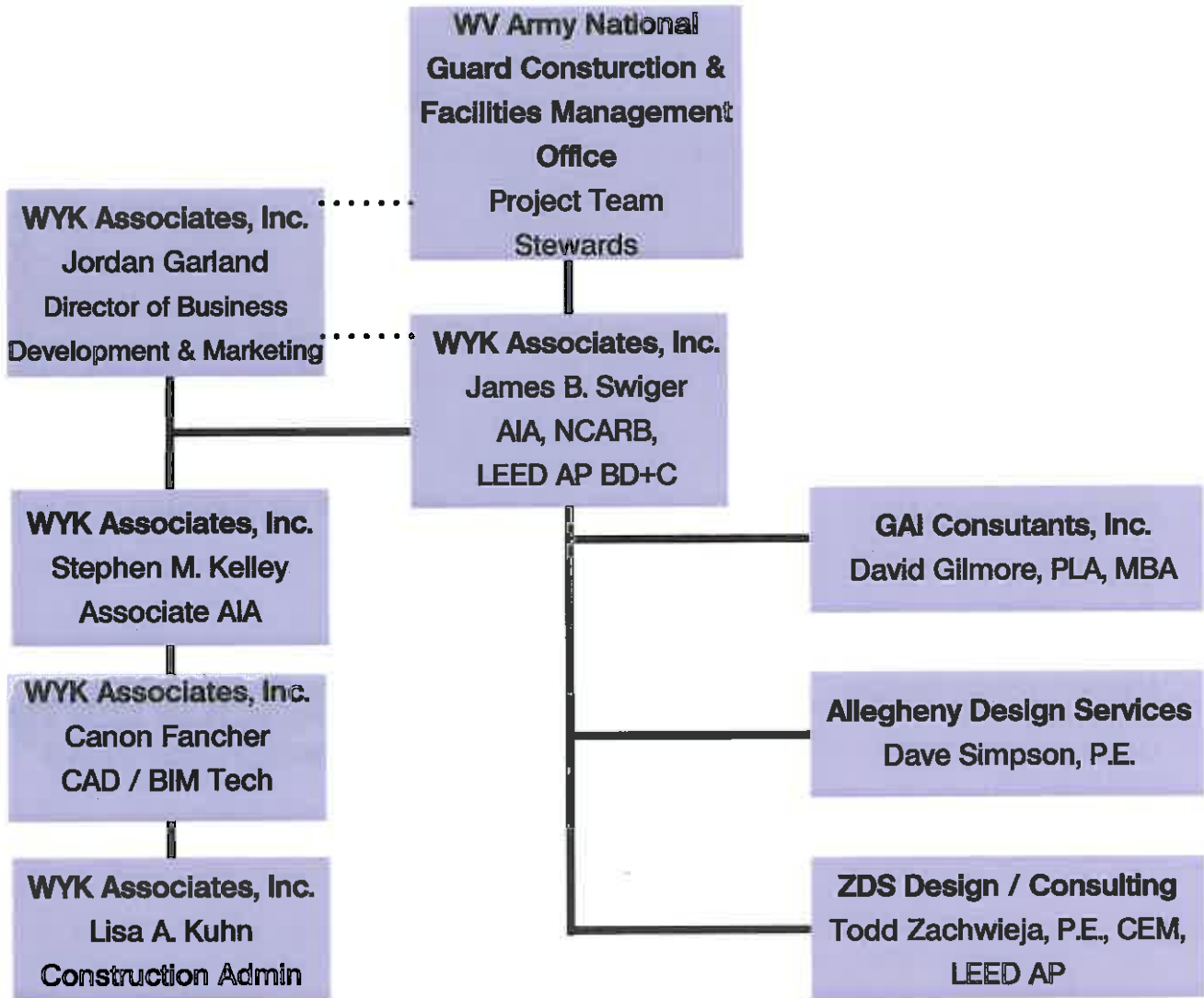
ZDS

Design/Consulting Services

MECHANICAL • ELECTRICAL • INDOOR AIR QUALITY • ENERGY • COMMISSIONING



Development Team Organizational Structure





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center

**MASTER PLAN & NEEDS ASSESSMENT
PROJECTS**



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MASTER PLAN - CAMP DAWSON TRAINING CENTER

Master Plan & Needs Assessment Projects

Example Cover Page to be used for the Needs Assessment to be performed for the Camp Dawson Training Center Master Plan

Master Plan & Needs Assessment Sampling

Bridgeport Public Safety Substation

Brooke Glass Buildings

Cheat Landing Office

Coast Guard Station Mayport

Fort Campbell

Harrison County 911 Center

Keesler Air Force Base

Nazareth Farm

Orlando Naval Training Center

Pocahontas Courthouse

Rock Creek Development

Park Webster County 911 Center

WV State Capitol

WVU Evansdale Campus

An Architectural & Structural Assessment of the Camp Dawson Training Center

In preparation for Master Plan of campus.

September XX, 20XX

Commissioned By:

**WV Army National Guard
Construction & Facilities Management Office**



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

**Report By: James Swiger, AIA, NCARB, LEED AP BD+C, WYK Associates, Inc.
David Simpson, P.E., SECB, Allegheny Design Services
David Gilmore, PLA, MBA, GAI Consultants**

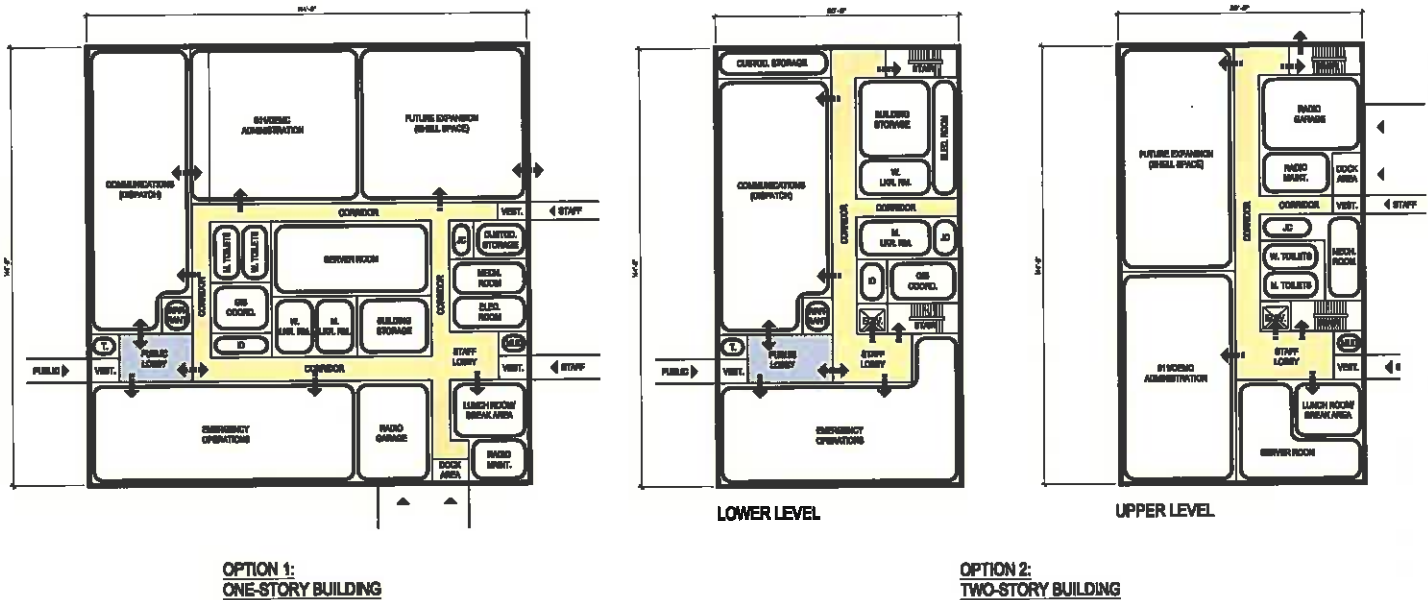


A. Space Needs Assessment

The table that follows summarizes the functional and spatial requirements for the individual departments, and allocates the required amount of area in net (usable) and gross square feet, for planned and future spaces. The table also provides descriptions of functions and furniture requirements. Legend: ■ = required, □ = not required. For space layouts, refer to Appendix A: Space Standards.

Space	Description	Staff		Space Standards				Comments / Adjacencies
		Current	Proj'd.	Ref. #	Page #	Size	Total	
1. PUBLIC AREAS								
Public Vestibule & Lobby	<ul style="list-style-type: none"> ■ Floor mat ■ Waiting areas: <ul style="list-style-type: none"> ■ (4) Chairs □ Display area/bulletin boards ■ Video Surveillance ■ Telephone for Entry 					Vest.: 60 Lobby: 180	240	□ Lobby open for: 24/7
Warrant Room	<ul style="list-style-type: none"> ■ Secure Access ■ Desk with (1) computer Terminal ■ Chair 			O-F	A5	120	120	<ul style="list-style-type: none"> ■ Access to Warrants from Dispatch Area ■ Public Lobby
Public Toilet	<ul style="list-style-type: none"> ■ Unisex Toilet(s) 					60	60	■ Public Lobby
Net Area							420	
20% Internal Circulation Factor							84	
Subtotal : Public Areas		0	0				504	

Example Page from the Harrison County 911 Center Needs Assessment



Example Floor Plan Diagram Page from the Harrison County 911 Center Needs Assessment



MASTER PLAN - CAMP DAWSON TRAINING CENTER
 Master Plan & Needs Assessment Projects

WYK ASSOCIATES, INC.
 ARCHITECTURE • PLANNING

Building Name Building Part	Remaining Useful Life					Code Issues									
	0-3 Years	4-8 Years	9-15 Years	16-20 Years	21-30 Years	ADA (2010)	Building Code Issue (IBC & NFPA) (2015)	Intern. Energy Conservation Code (2009)	Structural Code (2015)	Plumbing Code (2015)	Mechanical Code (2015)	Electrical Code (NFPA 70 - 2014)	Fire Alarm (NFPA 72-2015)	Fire Protection (NFPA 13-2015)	Health Code (2008)
Sandora house						X	X								
Foundations			X												
Structure				X											
Windows			X												
Doors			X												
Siding			X												
Roof				X											
Plumbing	X								X						
Mechanical	X									X					
Electrical				X							X				
Fire Pit & Shed															
Foundations			X												
Structure			X												
Windows															
Doors															
Siding			X												
Roof			X												
Plumbing															
Mechanical															
Electrical															
The Gathering Place						X									X
Foundations		X													
Structure		X													
Windows															
Doors		X													
Siding		X													
Roof				X											
Plumbing															
Mechanical															
Electrical															
White Barn						X		X							
Foundations			X												
Structure			X												
Windows			X												
Doors			X												
Siding			X												
Roof			X												
Plumbing															
Mechanical		X													
Electrical				X			X				X	X			
Sports Equipment Shed						X									
Foundations			X												
Structure			X												
Windows		X													
Doors		X													
Siding		X													
Roof		X													
Plumbing															
Mechanical															
Electrical															

Example Page from the Nazareth Farm Needs Assessment and Code Evaluation



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



gai consultants

MASTER PLAN - CAMP DAWSON TRAINING CENTER

Master Plan & Needs Assessment Projects



G.A.I - Example Master Plan
from a Hazelwood, PA, Brownfield Site Development



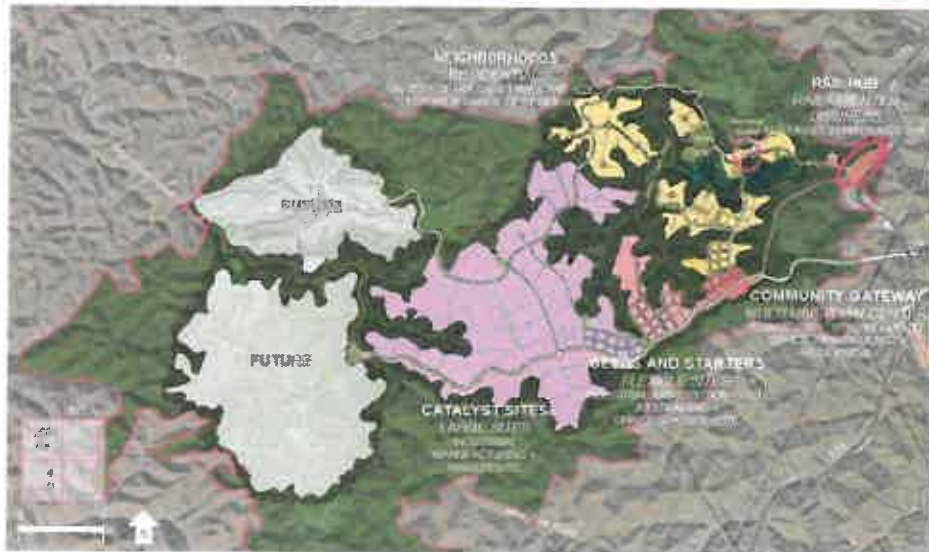
gal consultants



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MASTER PLAN - CAMP DAWSON TRAINING CENTER

Master Plan & Needs Assessment Projects



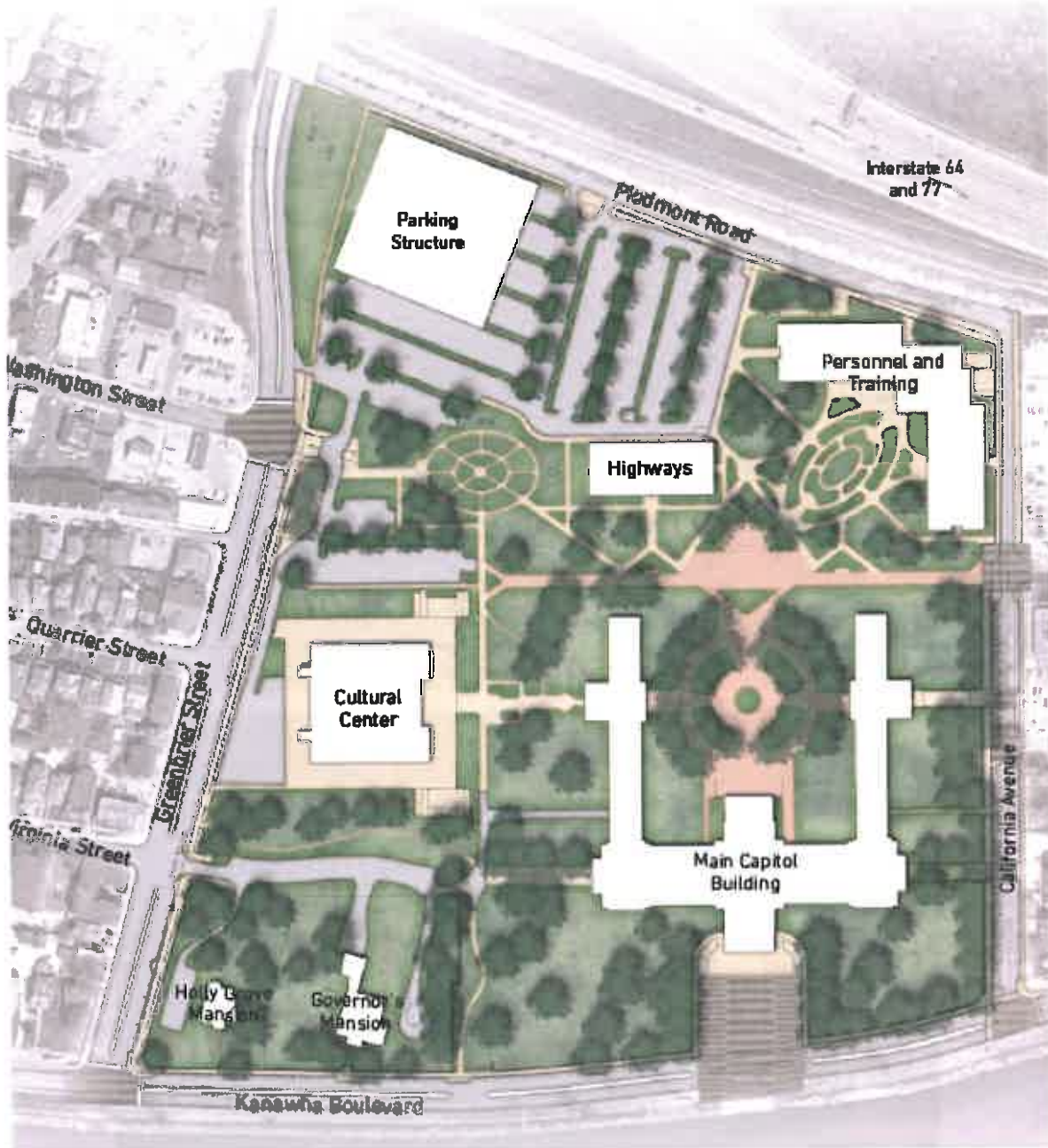
G.A.I - Example Master Plan
from Rock Creek Development Park Economic Feasibility, Strategic
Planning, and Market Analysis



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MASTER PLAN - CAMP DAWSON TRAINING CENTER

Master Plan & Needs Assessment Projects



G.A.I - Example Master Plan
from West Virginia State Capitol Master Plan



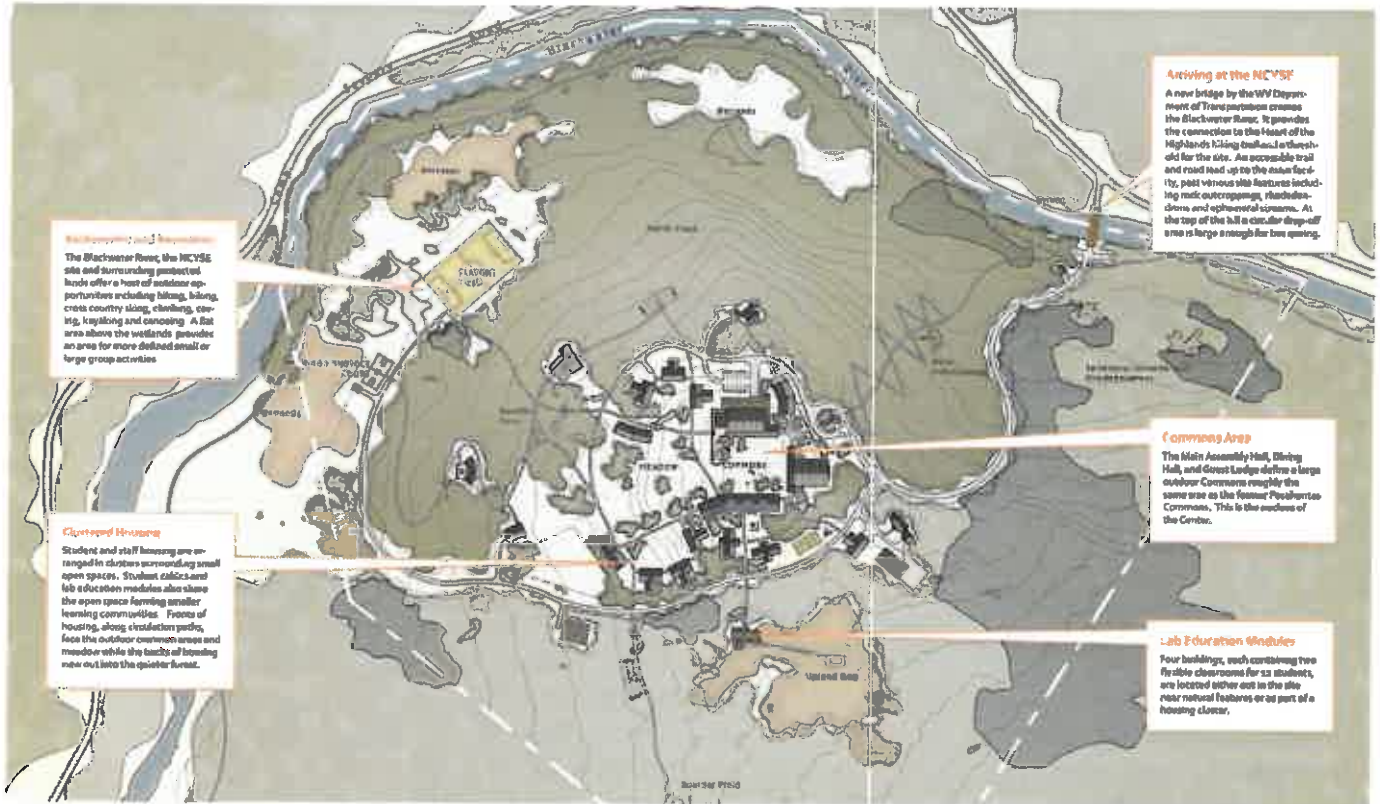
gai consultants



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

MASTER PLAN - CAMP DAWSON TRAINING CENTER

Master Plan & Needs Assessment Projects



G.A.I - Example Master Plan
from the National Center for Youth Science Education Master Plan
in Davis, WV



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center
PROJECTS



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Army National Guard Fixed Wing Training Site

North Central West Virginia Airport, Bridgeport, West Virginia



A state of the art training facility

With Sponsorship from Senator Robert C. Byrd, the West Virginia National Guard established the state of the art personnel training facility totaling \$6.4 million in construction costs in 1996. Here students and instructor pilots from the fifty states and Guam train and certify on three different types of transport aircraft.

A wide hangar and an innovative hangar door system allow quick access to any one of five airplanes without disturbing other aircraft. Each aircraft has a dedicated manufacturer's support and maintenance team with their own work space. The two story masonry annex accommodates administration staff, instructor pilots, and instruction/simulator rooms.

The hangar proper is a steel frame structure with a clear span of the entire 210 foot hangar width. A prefinished insulated metal wall system with translucent thermal panels provides glare-free natural light with little or no maintenance. This was a part of the project's energy cost containment plan. This project also features 30' Tall Vertical Lift Doors.



Project Facts

Size: 37,000 sq ft

Completed: 1996

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

West Virginia Air Center Bridgeport, West Virginia

Government > North Central WV Airport > Air Center

Fast-track, Aircraft

Aircraft maintenance and retrofit service.

The building designed for the West Virginia Air Center is now occupied by Bombardier Services America Corp. The facility houses a complete aircraft maintenance facility which services mid-sized airplanes for both private airlines and the military. The building features four large aircraft maintenance bays which can accommodate up to a dozen aircraft for all types of maintenance and retrofit services.

The center has shops to support all phases of aircraft maintenance including interior finishes, composite materials, avionics and electronics and machine tooling. One bay is specifically designed for the removal and application of paint, and the building has state of the art fire protection and hazardous material collection systems. The modern office and support facilities offer unique views of the maintenance bays, and afford all employees an opportunity to observe the extensive and detailed work as the airplanes are torn down and rebuilt.

The project was completed in just over 14 months using a fast track construction management approach. The construction manager, all contractors, the owners representatives and the design team worked very closely to assure that all project milestones were met.



Project Facts

Size: 146,000 sq ft

Completed: 2004

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

World Vision Addition

Philippi, West Virginia

Community > Non-profit > World Vision Addition



Building materials for the community

Construction Materials for all.

WYK Associates, Inc designed the addition and renovations for the Appalachian Storehouse of World Vision. This ministry receives, stores and distributes a wide variety of building materials at little or no cost to allow families in need to improve and weatherize their homes. Housed in a former dressmaking shop, the facility needed additional space and upgrades to the existing building.



The design reoriented the flow of materials through the facility by adding a 3,000 S.F. loading dock/staging area on the east end of the existing building, and approximately 15,000 S.F. of new warehouse space on the west end. The entire facility received new fire alarm and sprinkler systems, and additional and upgraded office and administrative spaces. Lighting upgrades were also performed in the existing warehouse space for to create a much better work environment as well as save on energy costs.



The finished building more than doubles the storage capacity of the operation, and eliminates long standing traffic conflicts between delivery trucks at the loading docks and client vehicles.

Project Facts

Size: 15,000 sq ft warehouse

Size: 3,000 sq ft loading dock

Completed: 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

FAA Sector Field Office & Storage Building

Bridgeport, West Virginia

Government > North Central WV Airport > Office & Storage Building

Now serving: NCWV Airport

Office and storage buildings

Field Office

This facility, built along the access road to the airport terminal, houses the Airfield Services Support Staff to the FAA. These technicians provide support for the airport safety and navigation systems for the entire state of West Virginia.

The building houses not only office spaces, but shops for repair and assembly of components and a garage area for storage of equipment and maintenance of vehicles.

Storage Building

This pre-engineered building provides garage space for the airport's snow removal and runway support equipment.

The building includes minimal office space for record keeping and is designed to accommodate storage of salt, sand and cinders to keep both the runways and the roads open during winter weather conditions.



Project Facts

Size: 6,000 & 4,000 sq ft

Completed: 2004

www.wykarhitects.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Stockmeier Urethanes Addition

Clarksburg, West Virginia

Commercial > Stockmeier Urethanes



Functional addition

Spacious expansion to an international company.

This is the third facility for this international manufacturer of industrial grade polyurethane. Headquartered in Germany, Stockmeier will now have the flexibility to reach markets in North and South America and to deal in both Euros and dollars.

By acquiring/renovating this existing pre-engineered shell building with its large developed site (another project completed by WYK Associates in the late 1990's) Stockmeier Urethanes has created contemporary offices and their first American production center.

They use specialized laboratories, production areas, storage spaces, and loading/transportation staging areas to comply with government oversight and regulations. The existing facility was expanded to include an enlarged loading dock with canopy, a new maintenance storage area, and a specialized storage tank facility.

WYK most recently completed a design to expand this facility. This added 7,800 S.F. of warehouse space as well as an additional loading dock with a shipping/receiving area.



Project Facts

Size: 32,500 sq ft

Completed: 1998, 2009, 2012

www.wykarhitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Webster County EDA Building Cowen, West Virginia

Not your typical steel building...

Flexible spaces for lease!

This structure was built to bring in businesses to rural West Virginia, located in Cowen. It is a pre-engineered steel building with a masonry and metal façade. The design allows the building to be divided into three separate tenant spaces or "pods". Its design also had the foresight to be flexible enough to be used by a single tenant. The "pods" range in size from 2,500 S.F., 6,000 S.F. and 12,000 S.F.

A local doctor has leased the smallest segment of the building and has opened up a new health clinic of which the build-out was also designed by WYK. This facility is located on the same campus as the I.M.C. The glass entry element reflects the same detail from the I.M.C. building which contributes to the feeling of an overall campus.

The building is situated so that it is surrounded by parking to easy access to each "pod" and minimized common space in order to maximize the leasable area of the building.

The roof gables are turned 90 degrees to each other to break up the large mass of the building within its rural setting. It appears to be three separate buildings from a distance in lieu of a large warehouse "big box" metal building.



Project Facts

Size: 21,100 s.f.

Completed: 2005

www.wykarchitects.com



Northpointe Business & Industrial Park Shell Building Bruceeton Mills, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Multi-Use Shell Space

Growth and Convenience

This highly visible shell building was a project of the Preston County Economic Development Authority through West Virginia's EDA Shell Building Loan Program.

It is located at the Hazelton Exit of Interstate 68. This location in the Northpointe Business and Industrial Park is convenient to the intersections of I-79 and I-68, and within 500 miles of the major population centers of the northeastern United States.

This building is currently occupied by Puris, LLC, a 3D metal printing fabricator. With a 22' eave height, the building is adaptable for many uses. The office portion is masonry clad with two colors of CMU. All utilities are available within the Northpointe Business and Industrial Park.



Project Facts

High Bay: 47,250 s.f.

Office Space: 5,000 s.f.

Total: 52,250 s.f.

Completed: 2002

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Theatre Renovation

Clarksburg, West Virginia

Historic property to be brought back to life!

Local theatre to revive downtown

Resurrection through adaptive reuse provides neighborhoods and cities with future opportunities through utilizing our heritage and creating economic opportunities. The Robinson Grand Theatre has the capability to bring out the best the city of Clarksburg has to offer.

The future of the Theatre is focused on providing the support for performances, while providing the flexibility to adapt to a changing performance medium. WYK was selected as the design Architect for this project, teaming with a plethora of additional design professionals to provide the City with proposals for the future of this historic landmark.

The project team consists of several companies from Ohio, West Virginia, and Pennsylvania, all specialized in theatre details and design.

Two concepts for the theatre were provided to the City, with the selection of one option being approved in late 2014. There will be several design phases into construction including historical intent and additional design documentation as the progress begins.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Theatre Renovation

Clarksburg, West Virginia



Existing Lobby



Demolished Lobby

Project Facts

Original Bldg: 1913

Theatre Fire: May 1939

Rebuilt: December 1939

Closed: 2000

Bought by City: 2014

32,000 Square Feet



In-Progress Lobby



Proposed Lobby

Project Partners

www.wykarchitects.com

www.aurora-llc.com/

www.studioilighting.com

www.casstruceng.com

www.wrlsdesign.com

www.zdsdesign.com

www.pcscmservices.com



In-Progress Bar Area



Proposed Bar Area



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Bridgeport Public Safety Substation

Bridgeport, West Virginia

Government > Bridgeport Public Safety > Public Safety Substation

A Focus on Safety

Public Safety Substation doubles as an emergency shelter.

This facility is located directly adjacent to the new United Hospital Center at Jerry Dove Drive and strategically situated within a ½ mile radius of I-79 and the White Oaks and Charles Pointe Developments.

The building is a substation for the Fire and Police Departments of the City of Bridgeport. The structure is a combination of load bearing masonry and structural steel frame with a decorative brick veneer. The Apparatus Bay and supporting facilities are one story, slab-on-grade with an abundance of natural daylight.

The radiant gas heating, vehicle exhaust and high efficient lighting systems are integrated nicely into the exposed roof structure above. The administrative offices along with each of the department's support facilities are in a connected, two story masonry and steel frame structure.

This facility was designed as a 75-100 year structure to serve the needs of this ever growing area region. The building's power is completely backed up by an emergency generator which will allow it to double as an emergency shelter in times of need.



Project Facts

Size: 15,000 sq ft

Completed: October 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Information Manufacturing Corporation

Cowen, West Virginia

Commercial > IMC



Hi-tech expression

Sustainable design focusing on office operations.

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. This company transforms data into business intelligence and manages electronic data for government agencies.

The facility embraces a "hi-tech" image through expressions of form and materials. Extensive use and thoughtful composition of architectural metal panels, large glazed panels, and geometric proportioning of the brick masonry are integral to the building's character. The concept of manufacturing information guided the functional interpretation of the building's interior. Demands of the company's activities dictated large, ultra-flexible spaces defining the majority of the form. The building combines this square footage with smaller spaces for offices, secure storage spaces and conference areas.

Much consideration was given to employing user-friendly materials and creating environments whose focus was on the comfort of the users. Strategies range from indirect lighting in data processing areas, to creating exterior views from virtually every workstation.

The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.



Project Facts

Size: 18,000 sq ft

Completed: 2006

www.wykarhitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

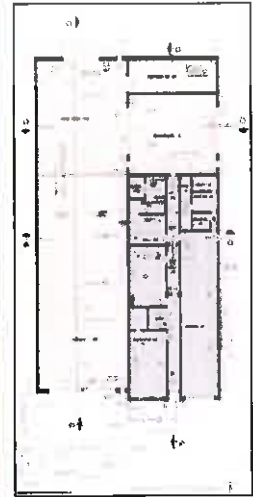
Elkins Fire Station - Apparatus Bay Addition

Elkins, West Virginia

Addition to Firestation

The addition to Elkins Fire Station includes two apparatus bays and a wash bay. Additional support spaces wrapped behind the existing early 20th century two story masonry structure incorporating equipment and maintenance rooms for the fire and rescue equipment. This one story masonry addition approximately increased the existing fire department's main floor area by 250%.

The apparatus bay's height was designed tall enough for fire and rescue equipment but yet kept low enough to compliment and not to overpower the scale of the neighboring two story house.



Project Facts

Size: 8,450 sq ft

Completed: 2004

www.wykarchitects.com





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Shinnston Community Center

Shinnston, West Virginia



Award Winning Design for a Gateway to Small Town America

Welcoming residents and visitors alike

The Shinnston Community Center will stand sentinel at the entrance to the historic downtown area embracing Shinnston's rich heritage and history. The building will meet the needs of the city in the twenty first century.

This two story, 18,000 S.F. structure will house city government office on the upper floor along with a spacious council chambers doubling as a large conference area.

The first floor will feature a large banquet room capable of comfortably seating 375 persons, a commercial kitchen and a dedicated space for the city's senior citizen organization. A community meeting space is also designed into the plan. This facility will utilize low maintenance materials throughout.



Project Facts

Size: 17,800 sq ft

Completed: N/A

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Davis Memorial Hospital Addition

Elkins, West Virginia

Local hospital receives new addition!

New hospital expansion for exam space!

Davis Health System has added onto their campus with a two- and three-story Outpatient Service area in addition to a new Physician's Office Building.

The addition, directly connected to Davis Memorial Hospital's existing corridors, is designed to create minimal disturbance, penetrating at the facility's two existing corridor locations, joining the present corridors with the new.

The addition consists of exam rooms, administrative offices, reception and waiting areas, and outpatient surgical recovery rooms.

The facade features brick with a glass storefront to blend in with the historic fabric of the town, while also providing a modern look.

Other work included approximately 10,000 SF of renovations to the existing hospital at the connection points, and most noteworthy, the renovation of a new phlebotomy lab on the ground floor.



Project Facts

Size: 80,000 sq ft (New)

Size: 10,000 sq ft (Renovation)

Completed: 2014

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

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 its 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

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center
RESUMES



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

James Swiger

www.wykarhitects.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

304-677-3373 Cell

304-623-9858 Fax

www.wykarhitects.com

james@wykarhitects.com

Memberships



The American Institute of Architects



Vita

He is a Harrison County native involved with several community and professional organizations. James most recently was elected to the Harrison County Chamber of Commerce Board of Directors. He is an active member of the United Way of Harrison County, Inc., holding several different positions over the years.

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 Registrations

West Virginia [REDACTED]
Ohio [REDACTED]
Pennsylvania [REDACTED]
Virginia [REDACTED]
Maryland (1991-2000) [REDACTED]
National Council of Architects [REDACTED]

Honors and Awards

2015 Clarksburg Uptown Business Member of the Year

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

2014 & 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 Honored 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 in 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

WVSHE – Associate Member of West Virginia Society for Healthcare Engineering

Affiliate Member of Builders Supply Association of West Virginia

Civic Affiliations

Harrison County Economic Development Corporation

Clarksburg Uptown - Board of Directors

Salom International University- Advisory Committee to the School of Business

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
Board of Directors 2007 - Present

Kiwanis Division 3
2009/2010 Lieutenant Governor

Salom International University
Auxiliary

Member
Salem Area Chamber of Commerce
Past Board Member

West Virginia Kiwanis District – District 3 – Past Lieutenant Governor

Salem Elementary School Nature/Fitness Trail – Project Manager



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley

www.wykarhitects.com > About WYK > Team



Stephen M. Kelley **Associate AIA**

Senior Project Manager

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304-623-9858 Fax

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stephen@wykarhitects.com

Associated Memberships



Vita

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 is currently pursuing his professional license.

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 \$22 million in value.

Education

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

Professional Affiliations

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

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

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 - 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 **LEED Green Associate** **Associate AIA**

Designer

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canon@wykarchitects.com

Associated Memberships



Vita

Canon began his career at WYK Associates, Inc. in 2016. His background includes a Bachelor's of Science in Architecture with a minor in general business from Fairmont State University.

Currently pursuing a Masters in Architecture from Fairmont State, Canon is equipped to aid in all areas of a project, from design through completion, including scematic design, construction documents and specifications.

Having grown up in rural Appalachia, 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 takes on.

Education

Bachelor of Science
in Architecture w/
Minor in General Business, 2013
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



Jordan Garland
Director, Business
Development & Marketing

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304-669-2828 (Cell)

304-623-9858 Fax

www.wykarchitects.com

jordan@wykarchitects.com

Vita

Jordan began her career at WYK Associates, Inc. in the spring of 2015. A skilled communicator, she is responsible for WYK's business development and marketing. Her experience in lobbying, organization and public relations make it easy for her to connect—and stay connected.

With a Master's coursework in Public Policy and a Bachelor's Degree in International Studies, Jordan's academic background, her professional experience and honed skill set enable her to connect easily and build lasting and mutually beneficial relationships. Her involvement in professional and community-related events and organizations, and her attentive nature enable her to establish WYK Associates, Inc.'s authority as the leading architectural planning firm in the Mountain State. Jordan is also a native to Harrison County.

Education

Coursework in Public Policy for M.A.
University of Maryland School of
Public Policy, 2013
College Park, MD

B.A. in International Studies,
Emphasis on the Americas
West Virginia University, 2006
Morgantown, WV

Universidad Internacional Menendez
Pelayo, Summer 2005
Santander, Spain

Professional Affiliations

Buckhannon-Upshur
Chamber of Commerce

Hardy County
Chamber of Commerce

Harrison County
Chamber of Commerce

Marion County
Chamber of Commerce

Morgantown
Chamber of Commerce

Randolph County
Chamber of Commerce

Women's Network Group
Marion County Chamber of Commerce

Chairperson
Young Leaders Forum
Executive Council on Diplomacy
2010 - 2012, Washington, DC

Volunteer Experience

2015 - 2018 Board of Directors,
Empowerment Through Employment

2017 Campaign Vice-Chair
United Way of Harrison County, Inc.

Graduate, Leadership Harrison 2016
Harrison County Chamber of Commerce

Cabinet Member
Chair for the Construction Division
2016 Capital Campaign
United Way of Harrison County, Inc.

Cabinet Member
Co-Chair for the Automotive Division
2015 Capital Campaign
United Way of Harrison County, Inc.

Member
Clarksburg League for Service
2013 - Present, Clarksburg, WV

Organizations

Alpha Phi Alumnae Association
West Virginia University
Alumnae Association



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center
CONSULTANTS



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Allegheny
Design Services
Consulting Engineers



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GAI Consultants, Inc.

Charleston, WV

58 YRS
SUPERIOR
CLIENT SERVICE

111
ENR TOP 500
DESIGN FIRMS

100%
EMPLOYEE
OWNED FIRM



Streamlining Solutions

GAI is a 900+ person multi-disciplinary engineering, landscape architecture, planning, and environmental consulting firm with over 58 years of experience delivering innovative engineering solutions. Through engineering expertise and broad, deep knowledge of regulatory processes, we are *transforming ideas into reality* with solutions that make a real difference to our clients.

With an award-winning and respected professional reputation in multiple engineering, environmental, and technical practice areas, GAI distinguishes itself by our solid reputation of providing excellent customer service along with innovative yet practical solutions.

Our work in the following disciplines provides innovative and cost-saving solutions for clients in municipal, as well as energy, transportation, water, government, real estate, and industry.

Adding Value

- Floodplain management and FEMA permitting
- Hydrologic and hydraulic analyses
- Elevation certificates
- Foundation design
- Residential site design
- Government engineering and design services
- Land development and landscape architecture
- Environmental engineering and studies
- Cultural resources management
- Geotechnical and structural engineering
- Surveying/GIS/GPS
- Construction management, inspection, and testing
- Water resources and wastewater management
- LEED® engineering and planning
- Design-build delivery system

GAI OFFICE LOCATIONS



Office Locations

GAI was established in Pittsburgh, Pennsylvania, in 1958, and currently has 24 offices in 11 states. GAI's strategic location in Charleston, West Virginia, places it within reach of multiple GAI offices that can provide capabilities, expertise, and support throughout the duration of the project.

The GAI office location and point of contact that will directly administer this contract is:

GAI – Charleston, WV

Todd Schoolcraft, PLA, ASLA, LEED® GA

Project Manager

300 Summers St., Suite 1100

Charleston, WV 25301

T 681.245.8878

t.schoolcraft@gaiconsultants.com

Kenneth W. Kinder, PE, CFM

Engineering Manager

300 Summers St., Suite 1100

Charleston, WV 25301

T 681.245.8869

k.kinder@gaiconsultants.com

www.gaiconsultants.com

GAI'S **COMMUNITY SOLUTIONS GROUP**

Community Solutions: *Experienced People, Open Minds, Fresh Ideas*



A GAI Consultants Service Group

Planning | Urban Design
Landscape Architecture
Economics | Real Estate

What We Are

GAI's Community Solutions Group is an idea-driven strategic consulting practice integrating design, planning, and economics. We are committed to enhancing communities in ways that are practical, sustainable, and authentic to our clients' needs, while being politically aware, financially feasible, and aesthetically compelling. Our mission is to create livable places of lasting value in an increasingly connected, complex, and competitive world.

Who We Are

The Community Solutions Group is a unique team of landscape architects, urban designers, land use planners, public finance and economic development specialists, and public administrators who capture the full dimensions of strategy and solution. Committed to positioning cities for a sustainable future, we are recognized for delivering insightful, thorough, and technically sophisticated solutions. We embrace a philosophy that values the complex interrelation of people, place, and policy while considering a project's ability to positively impact its investors, community, and setting. GAI's Community Solutions Group listens carefully and actively, questioning assumptions with positive energy and fresh ideas. We seek to understand our client, the place and its context, and the real substance of issues before we act. We are passionate about our work, care for people, and are purpose-driven practitioners with a track record of positive outcomes.

What We Do

Our work centers on finding resolution to place-based problems by implementing context-sensitive, sustainable solutions that are economically and fiscally beneficial and implementable. We engage diverse community groups to affect positive outcomes with shared benefits through integrated solutions.

Consequently, our clients include governments, agencies, institutions, and developers who share an equal need to address complex and inter-related challenges. We work from planning to policy and concept to construction across the scales of region, city and campus; neighborhood, street, and site.

As an art, our practice requires an understanding of the nuances of feasibility, political sensitivity, urban form, relationships, and character of place. But as a science, it involves street geometries and hydrologic flows, floor-area ratios, densities, market economics, and financing mechanisms. We are effective because we are sensitive and sophisticated about implementing complex ideas across the platform of inclusive participation, thoughtful design, funding and finance, public policy, and community partnerships for initiatives both large and small.

Master Planning + Urban Design

Landscape Architecture + Design

Economics + Strategy

Master Planning + Urban Design

The Community Solutions Group's Master Planning + Urban Design practice focuses on crafting plans that create livable places of lasting value for communities that require context-sensitive, sustainable solutions. We prioritize close collaboration with clients through an approach that emphasizes plans that reflect strong neighborhoods, livable transportation networks, interconnected park and open space systems, environmental sensitivity, and economic opportunities. Through work at the scale of city, neighborhood, and street, our plans create the framework for rich, interactive settings that bring people together in environments that facilitate meaningful experiences that enrich lives.



Our team draws upon expertise in multiple disciplines to balance physical, social, and economic needs and create urban places that enhance quality of life. We understand that each building, streetscape, transportation corridor, and park works toward creating an urban place that transcends the value of any individual element. Our planners and engineers work closely with clients to ensure that each piece of this urban fabric is deliberately designed with quality and respect for its role in the public realm. With an eye toward implementation, we also understand the complex regulatory processes that must be navigated in order to gain approval for these great community plans. We draft clear plans and regulations designed to support community goals, preserve lifestyle choices, and create economic development and redevelopment opportunities, and we forge partnerships between stakeholders and local governments to achieve these positive outcomes.

Landscape Architecture + Design

The Landscape Architecture Studio within the Community Solutions Group integrates an experienced team of professionals that strives to raise the standard of planning and design services to a new level with every project, producing sustainable, context-sensitive solutions that meet our clients' objectives. We listen to their concerns, their desires, and their needs; we gather a deep understanding of place and issues, and then deliver thoughtful and innovative solutions. The studio operates under a fundamental planning and design philosophy that seeks to develop solutions that make a positive contribution to

the economic and social values of a community or place. Whether the question is community master planning and place-making, streetscape and corridor design, sustainable stormwater strategies (LID), parks and open space design or corporate and campus planning and design, we are committed to creating rich, diverse, and sustainable places for people; beautiful works that allow people to connect to the environment and that respect a community's cultural, historical, and environmental heritage.

Economics + Strategy

GAI's Community Solutions Group Economics + Strategy services draw from the advising team's experience, education, and a culture which integrates allied disciplines to enhance the appropriate solutions. Our approach draws upon our knowledge of growth management techniques in many state settings, local regulatory constraints, infrastructure systems and design, public finance, awareness of the needs in the private marketplace, preferred land use forms, aesthetics, emerging trends in development, and the linkages among infrastructure, economic development, and the character of the built environment. This knowledge enables our clients to choose critically between alternatives and implement a strategy or master plan that is flexible, cost effective, sustainable, and marketable, attributes sought by both our public and private clientele.

Civil/Site Engineering



Land development is an integration of site planning, civil engineering, and stormwater management—and GAI Consultants has engineers, planners, and environmental professionals dedicated to developing sites. Our project managers have 10 to 30+ years of experience managing small to complex residential, commercial, industrial, institutional, and brownfield development projects.

Assessing existing conditions with clients' goals in mind means we maximize development potential.

Development projects embody unique site layout, grading, roadway, and utility design characteristics; and every region has topography, property constraints, and infrastructure design challenges. This is why land development requires seasoned project managers skilled in determining the best use of a site—through planning, design, permitting, and construction.

GAI's design process starts with client meetings. We listen to our clients' needs and aspirations, and discuss their envisioned master plan. We then analyze governing municipalities at all levels, and review ordinances for allowable use, site development requirements, and stormwater management ordinances to gain a solid understanding of the site specifics.

GAI evaluates existing site conditions, including topography, natural resources, wetlands and streams, drainage patterns, and existing or nearby utility and roadway infrastructure. We understand the importance of the early planning so the site layout is in continuity with existing conditions and meets the intended use of the client.

GAI's land development professionals are skilled in the optimal use of existing resources in order to be cost effective, yet remain compliant with current regulations, while ultimately achieving the client's goals for the project.

GAI designs sites that meet the LEED® Site/Civil requirements of our clients. Our site layouts maximize development potential with cost-effective features and aesthetic stormwater management design. We design rain gardens and vegetated swales to convey stormwater runoff, and locate catch basins, piping systems, and ponds to maximize land use. GAI has practical stormwater management solutions that meet site topographic and natural resource challenges.



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Our engineers and construction specialists are skilled in developing construction cost estimates and performing construction inspection, documentation, monitoring, and management for site projects.

GAI's award-winning professionals have the experience and vision to handle a broad range of development needs, including the design, approvals, and construction of civil site development and stormwater management projects.

Civil/Site Engineering Services

- Land use and economic feasibility studies
- Impact fee studies and code impact assessments
- Facilities planning and design
- Site selection and permit acquisition
- Hydrologic and hydraulic (H&H) studies
- Soil-structure interaction investigations
- Foundation investigations and design
- Structural/non-structural alternative analysis
- Cultural and historic resources investigations
- Environmental assessments and species studies
- Wetland mitigation, design, and permitting
- Storm water management and site drainage design
- Water and sewer design
- Utility assessment, rehabilitation and design
- E&S control plans and permitting
- Surveying, construction layout, and as-builts
- Site geometry, demolition, and grading plans
- Subdivision, roadway, lighting, and traffic design
- Traffic impact studies and MOT plans
- Landscape architecture and streetscape design
- Parks and recreation trails design



Construction Engineering and Inspection



GAI Consultants monitors the daily activities and building materials that are critical to Construction Engineering and Inspection (CEI) projects with the following in mind—client service, construction integrity, and a successfully completed project. Whether GAI provides transportation construction monitoring, CEI for development, or construction management services for massive energy facility projects, our pool of resident engineers and construction specialists skillfully address the distinct construction challenges of clients in all industries.

Fully understanding the importance of project team communication and public information processes means project impacts are avoided and goals are met.

GAI's engineering and inspection services cover all elements of the building process. We start by evaluating each construction project before it begins,

tailoring staff and resources to fit the need, and setting a tone of cooperation and close communication. GAI uses pre-construction meetings with clients, owner, contractors, and subcontractors to outline communication methods, detail change order and pay request processes, and emphasize milestone completion dates. We believe successful pre-construction conferences are the basis for superior project performance.

GAI's construction professionals test construction material quality, inspect workmanship, and monitor on-site construction safety. Our services often include progress and materials reporting, shop drawing review, plan interpretation, pay request administration, claims and disputes resolution, and more. We follow each stage of construction to verify that the work is executed in accordance with the contract documents, and administer concrete, bituminous material, steel, and soil sample testing.

GAI understands the importance of implementing public information processes that keep all project stakeholders well informed. We work with each client to prepare public outreach programs as needed, and when construction is complete, we submit a detailed report to the client. Our final reporting summarizes overall performance and includes a full evaluation of the established goals and objectives.

GAI's project portfolio includes construction services for major highways and bridges, large-scale site developments, wastewater treatment plants, industrial facilities, and power plants. We specialize in complex, multi-phase construction projects for state agencies, municipalities, institutions, private developers, and power providers. Our repeat success is based on building trusted relationships with clients and contractors, and helping them meet their project goals.



As a client's eyes and ears, GAI provides quality control and cost protection throughout the building process so the work meets or exceeds quality standards. Clients' projects are professionally delivered with minimal or no construction delays, cost overruns, or safety violations.

Construction Engineering and Inspection Services

- Pre-construction project evaluation and conference
- Post-construction inspection and evaluation
- Value engineering
- Biddability and constructability reviews
- Cost estimating
- Scheduling
- Permit approval
- Construction inspection and monitoring
- Project management
- Contract administration
- Progress reporting
- Change order review and processing
- Supplier/construction deliveries
- Shop drawing review and plan interpretation
- Contractor quality control program monitoring
- Project closeout
- Public outreach



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Geotechnical Engineering and Soil Science



GAI Consultants is exceptional in helping clients manage the ground materials and geologic processes that affect their facilities, properties, and project sites. Our geotechnical engineers and geologists are highly experienced in the basic principles of engineering geology, soil and rock mechanics, foundation engineering, subsidence, and mine studies. With years of academic training, extensive research, and field experience, GAI's depth of experience and knowledge represents a viable and valuable solution for unforeseen foundation issues.

A reputable source of professional consultants skilled in engineering geology, soil and rock mechanics, foundation engineering and subsidence means better long-term solutions.

Through site explorations, we detect geologic and environmental hazards that can disrupt site or project development. GAI's geotechnical expertise in site design includes addressing areas subject to expansive materials, sinkholes, and subsidence, such as those underlain by karst and underground coal and limestone mines. GAI also has extensive site design experience in areas of potential seismic activity and those with liquefaction potential.

For many projects, soil is a finite and critical resource. GAI moves projects forward by evaluating subsurface and soil conditions, and recommending effective use of available soils. Knowing that projects require large amounts of soil and unconsolidated rock material, we help clients plan excavation sequences, processing needs, and optimum soil placement.

GAI's broad range of services includes feasibility studies that identify contaminated soils. We evaluate chemical, biological, hydrological, and regulatory factors, and recommend acceptable, cost-effective monitoring and remediation solutions that meet regulatory requirements. Our plans to re-establish permanent vegetation cover on disturbed lands and contaminated sites includes customized fertility programs and seeding mixtures, and we specialize in using coal combustion residuals to expand limited soil resources.

Soil is an excellent medium for re-using wastewater for farmland irrigation, and GAI's innovative design technologies include developing and implementing wastewater spray systems for vegetative fields. These systems evapotranspire wastewater, and organic contaminants are biodegraded into the topsoil.



Covering the entire expanse of geotechnical engineering, geology and soil science, GAI remains a reputable source of professional consulting. We address the myriad of soil, rock, and foundation factors that affect existing features and future land use.

Geotechnical Engineering and Soil Science Services

- Subsurface studies and investigations
- Subsidence studies and remediation
- Geologic studies and reconnaissance
- Site characterization and undisturbed soil sampling
- Soil borrow investigations
- Foundation recommendations, design, and research
- Geogrid reinforcement
- Geosynthetic materials design
- Slope stability analysis and MSE slope design
- Earth and rock retaining system design
- Soil and rock anchors
- Concrete, rock, grout, and cone penetrometer testing
- Pile static and dynamic load testing
- Pile drilling inspection
- Soil bioremediation and landfarming
- Waste water disposal and agricultural utilization
- Soil improvement techniques
- Coal combustion residuals (CCR) soil utilization
- Geoarchaeology, geomorphology, and pedology





The survey teams at GAI Consultants—a dedicated and experienced group of skilled professionals who provide services ranging from boundary and topographic surveys to specialized surveys for archaeology projects. Our surveys cover any discipline in any market, including transportation, development, energy, and industry.

Providing valuable survey information accurately and early means clients and contractors avoid spending thousands of dollars on potentially damaging lost time and litigation liability.

GAI field survey crews, working closely with in-house mapping specialists, have access to an extensive library of computerized mapping software, including Terramodel, Arc-Info, GRASS, Microstation and AutoCAD.

Design Surveys – Design surveys are the foundation upon which designs are developed and include records boundary line locations, topography, physical features, on-site buildings and utilities, encroachments, and easements. Quality foundation design plans are produced from these details.

Topographic Surveys – GAI uses the latest technology in field equipment, recorders, and computer mapping for accurate topographic surveys that incorporate ground run, aerial, tree, utility location, wetland, floodplain and hydrographic surveying and mapping for CADD.

Construction Surveys – Conducted on site during the initial preparation stage of construction, these surveys provide information critical to establishing location and elevation. GAI saves clients and contractors thousands of dollars on potentially damaging lost time and litigation liability by providing this key information accurately and early.

Boundary Surveys – GAI's boundary surveys identify land titles and ownership, and document real estate financing, appraisals and sales, insurance, as-built delineations, encroachment delineation, boundary line disputes, subdivisions, rezoning and variances.

Control Surveys – GAI's control surveys establish a series of grid lines and points that pinpoint physical features. The data are used to establish horizontal and vertical control points and independent triangulation measurements to develop reliable control grids.

Hydrographic Surveys – Supporting storm water management and wetland mitigation, these surveys require trained staff, special equipment, and extensive experience. GAI conducts hydrographic surveys for bridges and on wetlands, lakes, rivers, and shorelines.



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GAI uses Global Positioning System (GPS) for horizontal and vertical control surveys. With GPS technology, our surveyors can reference global datum, and re-create control points. We conduct utility location surveys, document archaeological/historical data, and support eminent domain work. Combining GPS technology with conventional survey saves time and money.

Organized for quick response, GAI's comprehensive surveying services cost-effectively meet the needs of public and private landowners, developers, and government agencies.

Surveying Services

- ALTA/ACSM land title surveys
- Topographic, boundary, and hydrographic surveys
- Aerial mapping and geodetic control surveys
- Floodway and dam surveys
- Subdivision and land development plans
- Volume calculations (cut/fill)
- FEMA flood elevation certificates
- Boundary and right-of-way legal descriptions
- Right-of-way plats
- Wetland boundary delineating surveys
- Embankment failure surveys
- Construction layout
- Existing conditions surveys (as-built)
- Erosion and sedimentation control drawings
- Post -construction stormwater management plans
- Borings and piling layout
- Structural monitoring surveys
- Forensic surveys
- Transportation surveys
- Industrial plant surveys



Keesler Air Force Base Central Energy Plant Design Build

GAI Consultants was contracted by VOA Associates to provide assistance on a design-build project for a new Central Energy Plant (CEP) at Keesler Air Force Base. GAI was responsible for structural, civil, and landscape architecture design services for a new 15,000 s.f. CEP and first floor electrical addition. The project was awarded through the Naval Facilities Engineering Command Southeast.

The new CEP, which also supports the Keesler Medical Center, replaces existing systems and consolidates them in a facility designed and constructed to reduce the risk of hurricane damage to essential generators, electrical switchgear, transformers, chillers, boilers, and cooling towers. Flooding from Hurricane Katrina completely shut down the Keesler Medical Center when almost all of the key systems centered in basement and outside areas took on water and could not be operated until they dried. This project provides a "survivable" CEP that can withstand extreme weather events.

GAI utilized "Dr. Checks" to address comments from federal government agencies involved in the project. In addition, GAI's landscape architects developed landscape and irrigation designs for the new plant.

Lasting Benefits

GAI developed an "Early Start" package so construction could begin on the CEP foundation prior to completion of final design. Designing a "survivable" CEP ensures military personnel that critical operations will not be interrupted during extreme weather events.

LOCATION: Biloxi, Mississippi

CONSTRUCTION COST: \$20M

COMPLETION: 2008

REFERENCE:

VOA Associates, Inc.
4798 New Broad Street, Suite 100
Orlando, Florida 32814
407.425.2500

PERSONNEL: Bob Schanck, PE



Fort Campbell Military Installation

This project was executed under a \$5,000,000 – five year A&E Environmental HTRW Services Indefinite Delivery Contract with the USACE Louisville District and has included various CERCLA assessments, site inspections and remedial investigations; restoration planning; and natural and cultural resource projects in support of the District’s mission within the Great Lakes and Ohio River Division Mission boundaries. The contracts general scope of services includes performing environmental studies, designs and support for compliance issues under RCRA, CERCLA, and other federal programs, and state and local environmental laws and regulations; conducting site surveys and assessments; performing NEPA documentation; conducting natural and cultural resource surveys; performing risk assessments and fate and transport analysis; conducting surface/subsurface soil, sediment and rock sampling/testing; conducting water sampling/testing; conducting HTRW laboratory analyses; and providing engineering evaluations/cost analysis for remediation work.

This Phase I Archaeological Survey was conducted to assist Fort Campbell in the fulfillment of its Programmatic Agreement with the Advisory Council on Historic Preservation (ACHP) and the State Historic Preservation Offices (SHPO) of Kentucky and Tennessee regarding the evaluation of historic properties including archaeological resources. The goal of the project was to determine the presence or absence of archaeological sites within 788 acres of active military training grounds, within the cantonment, and near the Sabre Heliport area. Seven discrete locations were designated for archaeological survey, totaling 788 acres, which constituted the project’s Area of Potential Effect (APE). The archaeological survey was performed within the APE in accordance with Section 106 of the National Historic Preservation Act (NHPA). Background research was conducted and a Statement of Expected Finds was produced. This was followed by a pedestrian reconnaissance and geomorphology assessment of the potential for identifying deeply-buried sites. GAI and AEROSTAR personnel excavated shovel test pits (STPs) on a 20-meter grid within the seven study areas. Radial STPs were excavated around positive STPs. A few areas with good ground surface visibility were also surface collected. The study identified 77 loci that produced artifacts including 23 archaeological sites (two of which were previously recorded) and 54 isolated finds. The Phase I Archaeological Report passed through agency review quickly with no comments received from either Fort Campbell or the Kentucky Heritage Council (State Historic Preservation Office).



LOCATION: Christian County, Kentucky and Montgomery County, Tennessee

PROJECT COST: \$248,000

COMPLETION: 2010

REFERENCE:

Aerostar Environmental Services, Inc.
for USACE Louisville District
Philip Elson
11181 St Johns Industrial Pkwy N
Jacksonville, Florida 32246
904.565.2820

PERSONNEL: Ben Resnick, MA, RPA, MBA

Coast Guard Station Mayport Survey

The Coast Guard Station Mayport project consisted of a complete boundary and design survey of the entire property for the purpose of adding an additional building and dock improvements. GAI Consultants performed the survey in a timely manner locating all improvements with elevations and produced CAD files for the design team. Coast Guard Station Mayport is an active port with operations for multiple sized ships. The security required to enter base required back ground checks and a safety meeting before any work could be started. The survey crews performed their work in GAI uniforms with ID badges. The improvements were designed and built a year later after our survey.

LOCATION: Mayport, Florida

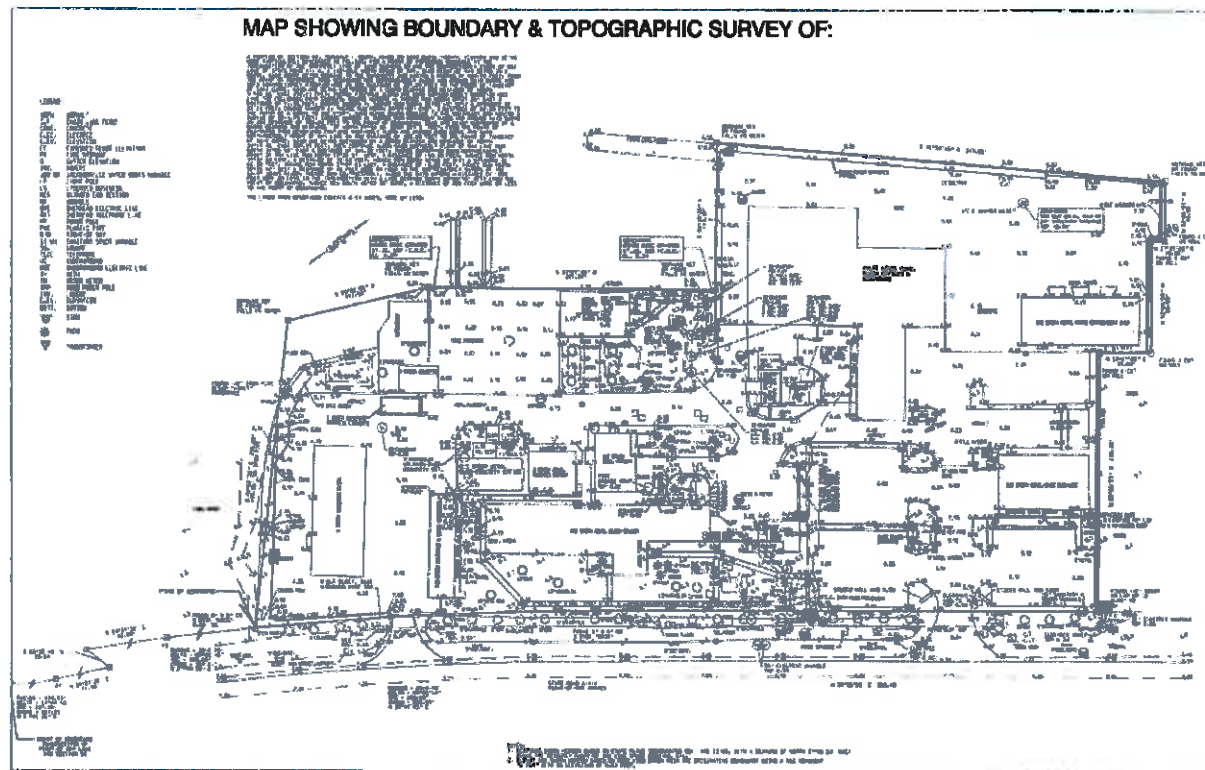
PROJECT COST: \$5,500

COMPLETION: 2006

REFERENCE:

Aerostar Environmental
 John Kaiser
 11181 St Johns Industrial Pkwy N
 Jacksonville, Florida 32246
 407.839.0224

PERSONNEL: Joe Lek



Alomono Hazelwood Site Brownfield Development

The Alomono, LP property is a 178-acre brownfield located in the Hazelwood neighborhood of the City of Pittsburgh. For many years it was the home of the LTV Hazelwood steel facility, which no longer operates on the site. Alomono and the Regional Industrial Development Corporation joined to transform this site into a new, vibrant, center of technology, industry, business and, most importantly, community. GAI Consultants provided preliminary engineering studies, conducted a traffic impact study, and completed construction plans and permitting for this brownfield project.

Coordinating with both the Pennsylvania Department of Transportation and the City of Pittsburgh to obtain approvals for roadway improvements, GAI also worked closely with the design team and City Planning to rezone the site as a Special Planning (SP) District. By changing the site zoning from "general industrial" to "mixed-use," Alomono and RIDC were able to develop the property in keeping with their established vision.

LOCATION: Pittsburgh, Pennsylvania

COST: Private Client

COMPLETION: 2013

REFERENCE:

Regional Industrial Development
210 Sixth Ave. Ste 3620
Pittsburgh, Pennsylvania
412.471.3939

PERSONNEL: Pat Gallagher



Rothschild
Dorff
andrupogrin

Cheat Landing Office Park Mixed Use Development

GAI Consultants was contracted by Blue Ridge Development to provide a land-use study and master plan drawing for a 36-acre parcel in Monongalia County, West Virginia. The development included retail, office space and mixed-use residential. The plan also included design of the way-finding signage and preliminary engineering for site development.

LOCATION: Monongalia, West Virginia

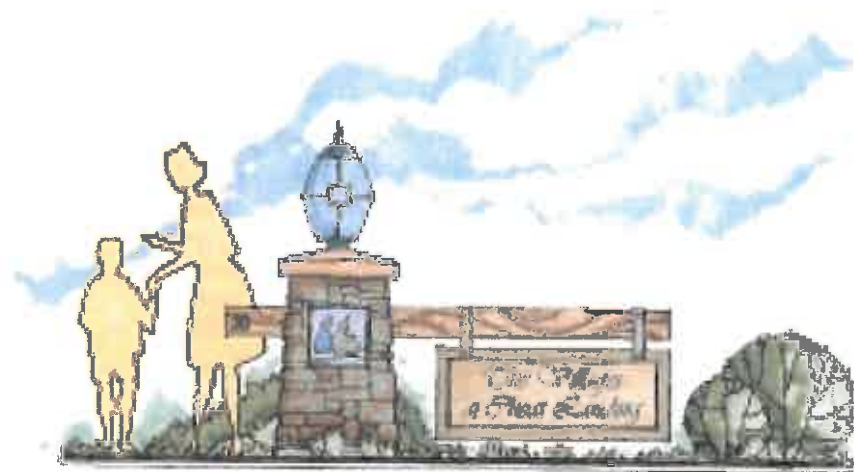
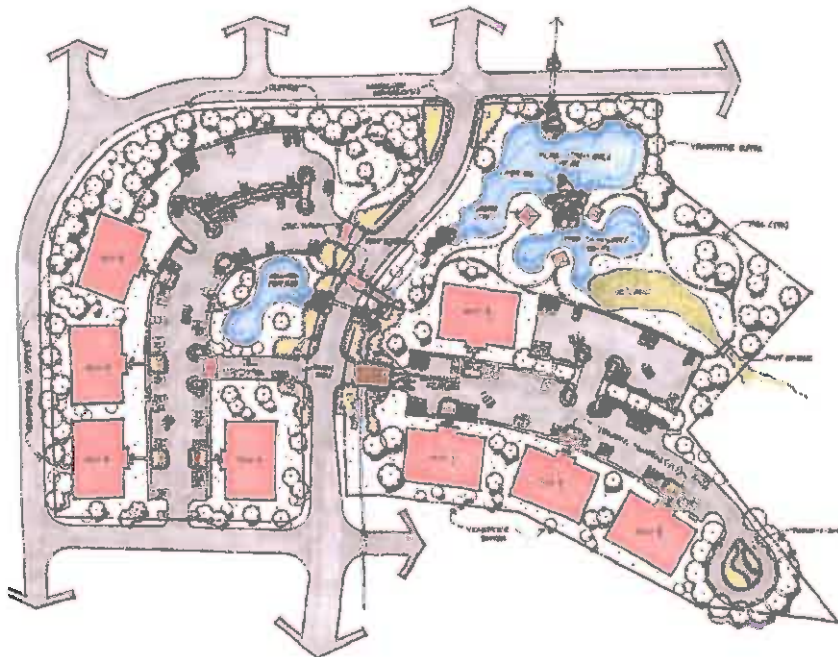
CONSTRUCTION COST: Private Client

COMPLETION: 2007

REFERENCE:

Zerkel Holdings LLC
 108 Cambridge Place
 Bridgeport, West Virginia
 304.848.7014

PERSONNEL: Dave Gilmore, PLA, ASLA



WVU Evansdale Master Plan

GAI Consultants performed evaluation of storm damage, sanitary and water system infrastructure, for West Virginia University's 150-acre Evansdale Campus in Morgantown as part of the University's capital improvement program for the campus. Work included relocation design for various utilities to avoid building new facilities and upgrades to provide the additional service capacity needed for the project. The plan included design of stormwater management upgrades to control development-generated runoff and included sustainable stormwater provisions to address water quality. The work also included design of parking lot expansions to replace spaces lost due to the building construction implemented during the capital improvement program.

Value Added Innovations

Sustainable stormwater techniques and practices with an emphasis on maintenance and monitoring to ensure long-term functioning of the structures, measures, and programs recommended.

LOCATION: Morgantown, West Virginia

CONSTRUCTION COST: Ongoing

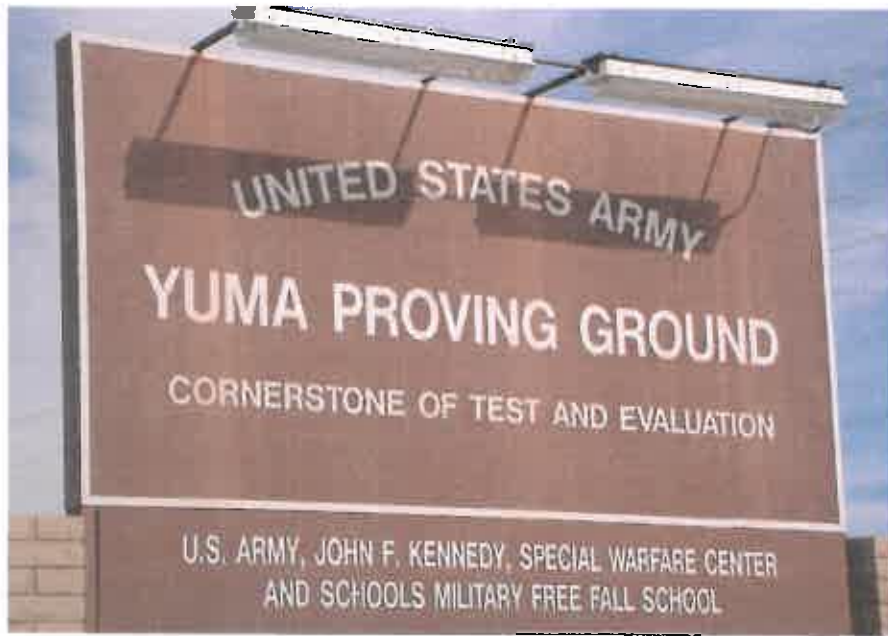
COMPLETION: 2011

REFERENCE:

Michael Stern
Strada LLC
The Ewart Building
925 Liberty Avenue
Pittsburgh, Pennsylvania
412.471.5704

PERSONNEL: James Greene, PE





U.S. ARMY YUMA PROVING GROUND (YPG) Yuma Arizona

GAI Consultant's Community Solutions Group served as an integral part of the planning team that developed a strategic plan for 838,000 acres of military property in the Sonoran Desert of the American Southwest. This planning activity was the first step in a master planning process to identify, develop and implement projects to achieve YPG's long-term goals.

As part of the project, CSG performed a SWOT analysis, intercept interviews and facilitated meetings on behalf of the planning team to engage internal and external stakeholders in the process. These meetings included senior military and civilian leadership to develop a single vision for how the Army's real estate assets could be

leveraged to serve all of its mission critical needs. CSG also analyzed other army installations and surveyed military and corporate customers as part of the project to identify best practices and to understand the numerous mission capabilities the Proving Ground offers.

CSG's services focused on the future vision for the installation, alternatives analysis for the positioning of assets, and identification of public-private partnerships to optimize and further enhance the Proving Ground's ability to support the on-going transformation of the U.S. Army.



ORLANDO NAVAL TRAINING CENTER - BALDWIN PARK | ORLANDO, FLORIDA

Baldwin Park is among the nation's most successful and copied neo-traditional projects. ULI and the American Planning Association have both honored the project time and time again for its creative and economically efficient master plan. Beginning as a naval installation, Baldwin Park has become the model for virtually every facility targeted for closure and disposition by the United States Navy.

The Business and Development Plan for the Orlando Naval Training Center began in May 1995 for the City of Orlando, and it was completed in August 1996. This plan addressed various complex development issues which were collectively resolved by the consultants and city staff. The multi-disciplined consultant team was headed by GAI staff. The scope of services included appraisals of all the base properties; estimating the needs for new or enhanced infrastructure; identifying the character and costs for new roadways; estimating the costs to demolish unusable buildings or infrastructure; preparing phasing plans and financial pro formas; and determining the project's impact on the city's services costs and revenues.

The process undertaken by the City was to identify the best development teams and simultaneously negotiate with each so as to ensure the highest, quality project. Four national developers bid on the project over a six-month process. Today several hundred housing units and a 350,000 square foot commercial center are completed and additional facilities are under construction.

DAVID GILMORE, PLA, MBA

Director, Landscape Architecture / Charleston Office Leader
Role: Principal-in-Charge and Landscape Architecture

Dave currently serves as the Director of Landscape Architecture services for GAI Consultant's Community Solutions Group. In this role, he coordinates projects and marketing activities for all of GAI's offices throughout the NE and Midwest region. In this capacity, Mr. Gilmore brings more than 27 years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector.

Throughout his career, Dave has been actively involved in a wide variety of challenging projects. His experience includes but is not limited to public outreach and programming, construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (campus, riverfronts, resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing.

Dave also remains active with the West Virginia University School of Landscape Architecture and has won multiple awards from the American Society of Landscape Architects for his work.

EDUCATION

- MBA Point Park University 2015
- B.S. Landscape Architecture 1988, West Virginia University

AFFILIATIONS

- (ASLA) American Society of Landscape Architects
- (CLARB) Council of Landscape Architectural Review Board
- (WVASLA) West Virginia Chapter
 - Past WVASLA State Licensing Board
 - Past President
 - Executive Committee Member
 - Chairman, Licensing and Sunset Review Committee
 - Judge, Senior Design Awards, West Virginia University

AWARDS

- Haddad Riverfront Park – American Society of Landscape Architects, Award of Excellence
- National Youth Science Center Master Plan – PAAIA Honor Award
- National Youth Science Center Master Plan – American Society of Landscape Architects, Award of Merit
- Haddad Riverfront Park – WVAIA, Honor Award
- Florida Street Revitalization Master Plan – American Society of Landscape Architects, Award of Merit



- Dupont 'Hyper' Plaza – American Society of Landscape Architects, Award of Merit
- *WV Focus Magazine*, If You Build It They Will Come, July 2015
- Charleston Civic Center Design Competition, First Place
- Top of Rock Design Competition, First Place

Professional Experience

- **"Imagine Charleston" Downtown Urban Revitalization Study, Charleston, WV.** The 2013 Downtown Charleston Redevelopment Plan, as part of a broader Comprehensive Plan for the City, provides a vision toward a sustainable future and creates a dynamic framework for realizing that vision. The result is a plan that provides detailed analysis of the physical framework of the Downtown and recommends strategies that, along with relevant public policy, will help guide growth and development in the City of Charleston. It is long range in its vision, yet it leverages current and upcoming opportunities that will help to achieve the vision.
- **Slack Plaza Master Plan, Charleston WV.** Master planning and rehabilitation of a large urban plaza in downtown Charleston. The existing plaza had become tired and in disrepair over the years and as result became virtually unutilized by nine to five, daily office employees in the surrounding downtown area. To breathe a breath of fresh air into the plaza, the design team analyzed the factors contributing to the underutilization of the park and responded with a design that will ultimately energize and invite users into the plaza.
- **Charleston Civic Center, Charleston, WV.** Design Competition winner for a 100 million renovation to the Charleston Civic center. Design Highlights include a river trail, new streetscape and entrance features and a new riverfront park and boardwalk.
- **Laidley Street Bus Terminal Enhancement, Charleston, WV.** Rehabilitation of a street that is utilized as the main hub for a regional bus transportation authority. The station is located in the heart of downtown Charleston and was renewed in parallel with an adjacent urban plaza.
- **Brawley Walkway, Charleston, WV.** Renewal of a prominent linear pedestrian corridor that links two major retail districts within Charleston's downtown core.



COMMUNITY
SOLUTIONS
GROUP

- **Kanawha City Corridor Study, Charleston, WV.** Comprehensive planning study for a three mile urban corridor planning study stretching the length of a professional and retail district. The project involved recommendations on how to promote pedestrian activity and revitalizing the vehicular dominated environment into a vibrant village atmosphere.
- **Kanawha Boulevard Walk and Bikeway Trail Master Plan, Charleston, WV.** Master planning and Bidding document preparation for a two mile bikeway project along a riverfront boulevard along the West Side neighborhood of Charleston, West Virginia. In addition to the addition of a two-way bike line, the team incorporated state-of-the-art stormwater management techniques to showcase the City of Charleston’s commitment to water quality and best management practices.
- **Greenbrier Street Corridor Master Plan, Charleston, WV.** Master Planning and presentation drawings for an urban streetscape design project stretching four blocks along a prominent gateway into downtown Charleston and the WV State Capitol campus. The design team analyzed existing pedestrian and vehicular traffic patterns that had been a safety concern within the community and recommended various traffic calming techniques in response. Additionally, the streetscape was recommended to be enhanced dramatically to serve as a gateway into the downtown area.
- **Haddad Riverfront Park, Charleston, WV.** Master planning, public participation services, design, construction and engineering solutions for the renovation of the Haddad Riverfront Park, which is a popular concert, festival and leisure site in downtown Charleston, West Virginia. Among the City of Charleston’s project requirements were a retractable canopy to provide protection and visual interest, an overlook plaza and pavilion that extends Court Street to the Kanawha River, an extension of the lower wharf area, a new streetscape design along Kanawha Boulevard, and an event stage for concerts.
- **Charlotte’s Creek Farm Equestrian Center, Cabell County, WV.** Master planning and bidding documents for a 50 acre equestrian facility. The plan includes both a private residence and a commercial equestrian farm that will be utilized for housing and training show horses.

Streetscape and Urban Revitalization List of Projects

- Downtown Charleston and Near West Side Strategic Plans, Charleston, WV
- Downtown Charleston retail Study, Charleston, WV
- West Side Masterplan Updates, Charleston, WV
- The Commons at Cheat Landing Masterplan, Morgantown, WV

- 40th and 42nd Street Village District Masterplan, Kanawha City, WV
- Charleston Comprehensive Plan, Charleston, WV
- City of Charleston Gateway Design, Charleston, WV
- City of Charleston MS4 Stormwater Manual
- Kanawha Boulevard Streetscape, Charleston, WV
- Court Street Overlook, Charleston, WV
- Citilink Transit Center, Fort Wayne, IN
- Lewisburg Streetscape, City of Lewisburg, WV
- Pennsylvania Street Masterplan, Carmel, IN
- Dupont Road Corridor Improvements, Fort Wayne, IN
- St. Albans Master Plan, St. Albans, WV
- St Albans Phase I, St. Albans, WV
- St. Albans Phase II, St. Albans, WV
- Pennsylvania Avenue Gateway, Charleston, WV
- Florida Street Revitalization Master Plan, Charleston, WV
- Williamson Master Plan, Williamson, WV

Parks and Recreation List of Projects

- Washington County Parks Recreation and Open Space Plan, Washington, PA
- Cross Creek Park Masterplan, Washington, PA
- Putnam County Parks Recreation and Open Space Plan, Putnam County, WV
- Top-O-Rock Design Competition Winner, Charleston, WV
- Charleston Riverfront Park, Charleston, WV
- Kanawha Boulevard Greenway and Bike Trail, Charleston, WV
- Terra Haute Gateway, Terra Haute, IN
- Valley Park Masterplan, Putnam County, WV
- Lee Way Park, Charleston WV
- Slack Plaza, Charleston WV
- Charleston Gateway Design, Charleston, WV
- West Virginia State Capital Grounds Masterplan, Charleston, WV
- Stonewall Jackson State Park Master Plan, Roanoke, WV
- Horicon Preserve, Horicon, WI
- Charleston Gateway Park, Charleston, WV
- West Liberty Soccer Complex, West Liberty, WV

TODD SCHOOL CRAFT, PLA, ASLA, LEED® GA

Senior Landscape Architect

Role: Project Manager

Todd has over 25 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Todd has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout.

Todd is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard.

Todd was appointed by the governor to the West Virginia State Board of Landscape Architects and served over 9 years as Secretary and Treasurer.

REGISTRATIONS

- PLA, West Virginia, 1995
- RLA, North Carolina, 2005
- RLA, Ohio, 2002
- CLARB Certified, 2001
- LEED® Green Associate, 2012

EDUCATION/TRAINING

- BS Landscape Architecture, West Virginia University
- Safe Spaces: ASLA Security Design Symposium, Chicago, IL
- AQUA Conference Educational Sessions, Las Vegas, NV
- CERFP Team Training, WV Army National Guard

AFFILIATIONS

- WV State Board of Landscape Architects
- American Society of Landscape Architects
- WV Chapter – American Society of Landscape Architects
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association
- National Parks Conservation Association
- Rails-to-Trails Conservancy
- WV Nursery & Landscape Association



Highlighted Professional Experience

- **West Union Main Street Streetscape Improvements, West Union, WV. Doddridge County Economic Development Authority.**
Project Manager. Responsible for conceptual design, detailed design, construction documents, bidding, and construction administration. Prepared concept designs for public input meetings, then further developed detailed design and construction documents, and provided bidding and construction management services for pedestrian improvements and streetscape enhancements for the City of West Union, Doddridge County, WV. Project consisted of four blocks of city street improvements to include concrete sidewalk replacement, period light fixtures, sandstone curbing, driveway curb cuts, ADA accessible curb ramps with truncated domes, Abbey Road-style crosswalks, storm sewer improvements, benches, trash receptacles and landscaping. Once a carriage trail, the Northwestern Turnpike was a historic road thru western Virginia finance by the Virginia Board of Public Works in the 1830s. Stagecoach stops along the turnpike dotted the corridor, including the section that is now Main Street West Union. Streetscape improvements accentuated the past carriage trail history with the re-introduction of hand-cut sandstone hitching posts to mark the gateway entrances into historic downtown West Union. All the stone quarried for the new street curbs and hitching posts came from the same rock quarry that produced the stone lentils and arches found in the Romanesque-Revival style County Courthouse.
- **North Bend Rail-Trail Reconstruction Project, Doddridge and Harrison Counties, West Virginia. North Bend Rails To Trails Foundation, Inc., WVDOH and WVDNR.** Project Manager.
Responsible for concept development, detailed design, construction plans and bidding documents. Developed concepts for improvements, then detailed design and construction documents, and provided bidding and construction management services for trail reconstruction

upgrades to over 30 miles of the North Bend Rail-Trail in Doddridge and Harrison Counties, WV. The original funding for trail work was a combination of Recreational Trails and Transportation Enhancement Program funds, the North Bend Rails-to-Trails Foundation, Inc. funds, and multiple sources which created a collaborative partnership involving the West Virginia Division of Natural Resources, WVDOH and the NBRT Foundation. The combined trail funding has resulted in a combined total of \$1.035-million. The North Bend Rail Trail is a State Park, owned by the WVDNR, and supervised by NBRT Superintendent Paul Elliott. "Trail improvements will include tread surface hardening and much-needed drainage work along the trail in sections in Doddridge and Harrison counties. Everyone involved is dedicated to keeping North Bend Rail Trail one of the best in the Eastern United States. Grant funds and interested groups working together keep good work happening in West Virginia," said Superintendent Elliott.

- **Pennsboro Trailhead, Old Stone House/Boarding House, and Historic B&O Train Depot Improvements for the City of Pennsboro and the Ritchie County Historical Society in Pennsboro, WV.** Project Landscape Architect. Responsible for concept planning, detailed design, construction documents, bidding, construction administration and construction inspection. The Ritchie County Historical Society, in conjunction with the City of Pennsboro, solicited services for the planning and detailed design of a new trail head along the North Bend State Park Rail Trail. Site improvements include the first known use of pervious or porous asphalt in West Virginia as the pavement surface for the parking area. A rain garden/bio-retention swale was also included as some of the green, sustainable design solutions proposed. Construction administration and inspection services were provided for the trail head work, plus restoration of the Old Stone House and Boarding House, built in 1810. Now a museum, the Old Stone House/Boarding House once served as an inn for Americans heading for the frontier to rest their weary bones before continuing westward. Construction services also included the continued restoration of the historic B&O Railroad Depot in Pennsboro, also currently serving as a museum. This project was awarded an ASLA Merit Award.
- **Lost Creek Train Depot Rehabilitation for the Town of Lost Creek in Lost Creek, WV.** Landscape Architect. Responsible for concept planning design and document quality oversight. The Town of Lost Creek solicited services for the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail.

Prepared a plan to raise the structure, make repairs to the deteriorated timber substructure, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. Also provided construction administration and inspection services as well as periodic site review during construction.

- **West Virginia Army National Guard TAG Wing Improvements, Division of Engineering and Facilities, Charleston, WV.** Project Manager. Responsible for design and document quality oversight. The Facilities Management Office (FMO) for the State of WV, West Virginia Army National Guard (WVARNG), executed a contract on a lump sum/fixed fee basis for architectural engineering services to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Worked closely with the client during the planning phase to define a project scope that would upgrade the existing facility in a fashion consistent with previous renovations and within a limited budget.
- **Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).** Project Manager. Project responsibilities included site surveying and base map preparation, site civil and architectural plan preparation, detailing, bidding, and construction administration for renovations required by CFLCC C-7 for the Command Group move from Camp Doha, Kuwait, to Camp Arifjan, Kuwait. Elements of the project included second floor 11-foot expansions on the north and south wings with structural layout, two new stairwells, expansion of existing office space, installation of men's and lady's restrooms, renovations to electrical, communications, and fire detection and suppression systems, extension of water service, sewer line design, and other amenities as needed. Periodic construction administration services were included during construction. Construction cost: \$267,000.00 U.S. dollars.



KENNETH KINDER, PE, CFM

Engineering Manager

Role: Engineering Manager

Kenneth has 15 years of experience in the field of Civil Engineering. In addition to being a registered Professional Engineer (PE), Kenneth is also a Certified Floodplain Manager (CFM) and has extensive experience with hydraulic modeling and the design and permitting of developments within the regulatory FEMA Special Flood Hazard Area. He has prepared numerous elevation certificates and floodplain development applications for projects in Kanawha County, the City of Charleston, the City of Nitro, Wood County, Putnam County, Wetzel County, Morgan County, Marshall County, and others. Other areas of specialty include civil site design, erosion and sediment control, storm water design, construction administration and construction management, development of grading plans and construction drawings, and various permitting tasks.

As an Engineering Manager, Kenneth ensures accuracy of work, meets schedule and budget requirements, and maintains excellent client relationships. He develops engineering calculations, prepares construction drawings, generates contract documents and specifications, and completes engineering reports.

Kenneth's experience has included preparing civil site design on numerous projects. Tasks included: preparing erosion and sediment control plans, designing utility systems, site layouts and grading plans, and designing surface drainage including storm sewer systems and storm water detention and retention ponds. Prepared permit applications for WVDEP construction storm water permits, WVDOH MM-109 permits, and floodplain development permits as required.

He has also worked on numerous geotechnical projects including developing boring layouts, coordinating geotechnical drilling, and using the gathered information to develop grading plans, design rock toe keys as needed for impoundments and valley fills, develop slope stability analyses, and to assist with foundation design for buildings, bridge abutments and retaining walls. Mr. Kinder has assisted with preparation of geotechnical reports, development of structural contour mapping, and preparation of subsidence control plans for underground mining.



REGISTRATIONS

- Professional Engineer, WV License No. [REDACTED]
- Certified Floodplain Manager (CFM)
- Troxler Nuclear Density Operator, 2001
- MSHA 8-Hour Safety Refresher, 2011
- HAZWOPER 40-Hour Safety Training, 2012

Highlighted Professional Experience

List of Project Experience

- Laeger-Panther Elementary School Floodway Evaluation, Laeger, WV
- Rocky Fork Floodway Fill Evaluation, Kanawha County, WV
- Charleston Civic Center Riverfront Park, Charleston, WV
- Nitro City Park Riverbank Stabilization, Nitro, WV
- Sir John's Run Floodway Evaluation, Morgan County, WV
- Solutia-Monsanto Riverbank Stabilization, Nitro, WV
- Krout's Creek Flood Evaluation, Huntington, WV
- Residential Bridge along Little Sandy Creek, Elkview, WV
- Hurricane Park, Hurricane, WV
- West Virginia Capital Campus Security Design, Charleston, WV
- Hobet Site Feasibility Study, Charleston, WV
- WVDOH Upper Gassaway Bridge, Sutton, WV
- 40th Streetscape from MacCorkle Avenue to Noyes Avenue, Charleston, WV
- Valley Park Construction Drawings, Putnam County, WV

Highlighted Experience

- Staff Engineer responsible for preparing civil site design on numerous projects. Tasks included: preparing erosion and sediment control plans, designing utility systems, site layouts and grading plans, and designing surface drainage including storm sewer systems and storm water detention and retention ponds. Prepared permit applications for WVDEP construction storm water permits, WVDOH MM-109 permits, and floodplain development permits as required.
- Staff Engineer responsible for designing gas well drilling pads and impoundments. Work included coordinating geotechnical drilling and using gathered subsurface information to assist with design. Prepared erosion and sediment control plans, completed HEC-RAS analyses and floodplain permitting for several temporary and permanent bridges. Designed impoundments including the development of grading plans to maintain an earthwork balance while achieving the required storage volume, design of a liner system and preparation of Emergency Response Plans.
- Staff Engineer responsible for geotechnical work including developing boring layouts, coordinating geotechnical drilling, and using the gathered information to develop grading plans, design rock toe keys as needed for impoundments and valley fills, develop slope stability analyses, and to assist with foundation design for buildings, bridge abutments and retaining walls. Assisted with preparation of geotechnical reports, development of structural contour mapping, and preparation of subsidence control plans for underground mining.
- Staff Engineer responsible for preparing design and construction documents for municipal solid waste and industrial waste (coal combustion by-product) landfill cells and caps. Work included developing storm water control plans, design of leachate collection systems, design of liner systems for leachate collection and leak detection systems. Work also included preparing construction drawings, technical specifications, and an engineer's estimate of probable construction cost.
- Staff Engineer responsible for hydraulic analyses and permit application preparation for developments proposed within the FEMA regulatory floodplain. Work included coordinating with community floodplain managers, preparation of HEC-RAS hydraulic analyses, adjusting proposed grading plans or bridge layouts as required to maintain compliance with the National Flood Insurance Program. Prepared elevation certificates and FEMA Letters of Map Amendments
- Staff Engineer responsible for performing construction oversight and construction management for a RCRA 120-acre environmental remediation site. Responsibilities included managing a team of construction quality assurance/quality control (QA/QC) observers, tracking construction pay quantities and reviewing monthly invoices, ensuring construction is being performed according to the plans and specs and enforcing implementation of a site specific health and safety plan.
- Engineering Intern in a Summer Co-op program responsible for performing construction observation for QA/QC on various projects. Tasks included soils compaction testing, concrete sampling and testing, and construction monitoring to ensure compliance with project specifications. Projects regularly included construction of fills, excavation for footings and construction of sanitary and storm sewer systems. Assisted the survey crews as an instrument man to perform boundary surveys, topographic surveys, and construction stakeout. Worked with the CAD department creating and revising drawings for civil and utility design projects using AutoCAD Land Desktop.
- Survey Rodman responsible for assisting the survey crews with boundary surveys, topographic surveys, and construction stakeout. Projects included road construction and paving, oil and gas wells and pipelines, coal stockpiles, and building construction. Reduced survey notes and assisted with the preparation of survey plats with AutoCAD.

CHARLES STRALEY, PE, PLS

Engineering Manager

Role: Geotechnical Engineer

Mr. Straley has over 30 years of experience in the fields of civil and geotechnical engineering. Mr. Straley specializes in civil engineering with an emphasis in geotechnical engineering, including all aspects of subsurface exploration, laboratory testing, foundation and embankment design, slope stability, materials and construction specification, construction administration, management and monitoring. Mr. Straley has a Master of Science Geotechnical Engineering from the University of Akron. He is a registered Professional Engineer (PE) in WV, KY, OH, and IN as well as a Professional Land Surveyor (PLS) in WV. Mr. Straley has extensive experience in geotechnical and foundation engineering throughout the State of WV. He has performed these services on projects as large as industrial/commercial developments to as small as residential plans.

REGISTRATIONS

- Professional Engineer:
 - West Virginia, [REDACTED]
 - Ohio, [REDACTED]
 - Kentucky, [REDACTED]
 - Indiana
- Professional Licensed Surveyor,
 - WV, No. [REDACTED]

RELEVANT TRAINING/COURSES

- Leaders to Watch, GAI Consultants, Inc., 2011
- Advanced Project Management Training, GAI Consultants, Inc., 2009
- Troxler Certified
- 40-hour Health and Safety Training
- 8-hour Supervisor Health and Safety Training

AFFILIATIONS

- National Society of Professional Engineers, Member
- Society of American Military Engineers, Member



Highlighted Professional Experience

- Assisted and managed a wetland mitigation project, including determination of existing wetlands, acreage disturbed, and reconstruction of wetlands for the Mettiki Coal Corporation.
- Assisted in reevaluated a plug and dike design to optimize construction by minimizing the number, length, and cross-sectional area without compromising structural integrity or limiting storage capacity for Americoal Development Company.
- Assisted with drawdown field testing and well yields and/or recharge analysis for over 15 wells for Peabody Coal Company; Southern Ohio Coal Company; and Eighty-Four Mining.
- Assisted with the Nile Stone Slurry Impoundment for Old Ben Coal Company in Mingo County, WV. Design included grading channels, culverts, and roads.
- Assisted with identifying ground water and surface water monitoring points, including discussions with the regulatory agencies for deep mines for Hobet Mining Company; Cyprus Emerald; and Cyprus Cumberland in Boone County, West Virginia (WV) and Western Pennsylvania (PA).
- Assisted with the preparation of construction documents for an earthen dam for the Lake Chaweva Homeowners Association in Charleston, WV. Project included evaluation of existing drainage structures, storm water routing analysis, design of earth embankment, and design of a principle and emergency spillway.
- Assisted with the sampling of sludge ponds in Institute, WV for the Rhone Poulenc AG Company.
- Federal No. 2 Mine Project for the Eastern Associated Coal Corporation in Monongalia County, WV. Completed a permit revision application for additional area to be deep mined by long wall. The application included

- geology, hydrogeology and subsidence control plan sections of a surface mine application. A ground water inventory and water samples were collected and analyzed for structures above the area to be mined.
- Completed the geology and hydrogeology sections for a new deep mine permit application in Logan County, WV. Completed stability analysis for various slopes in different portions of the permit application.
 - Completed various mine permit applications (renewal, revisions, inactive status, etc.) for the Cyprus-Amax Kanawha Division.
 - Completed various permit applications for renewals, incidental boundary revisions, permit modifications, inactive status, and NPDES renewals and modifications for various surface mines in Kanawha and Fayette Counties, WV for the Cyprus Kanawha Coal Company.
 - Completed various project designs and permit applications for renewals, incidental boundary revisions, permit modifications and NPDES renewals and modifications for surface mines in Monongalia and Marion Counties, WV for the Eastern Associated Coal Company.
 - Cow Creek - Sarah Ann Water Supply Extension Project, Logan County, WV. In charge of the geotechnical investigation and foundation design for water supply structures. Project included subsurface investigation; design of three water tanks, three booster stations, one master meter assembly, and approximately 19 miles of waterline; preparation of technical specifications, drawings, and engineer's cost estimate; and participation in pre-bid and pre-construction meetings. Bid construction cost was approximately \$4,800,000. Design included an access road to WV Division of Highways standards.
 - Solid Waste Landfill Design Project for the Rhone-Poulenc Ag Corporation. Evaluated the geology and hydrogeology of the site. Developed the specifications for the construction of the double liner system.
 - Design, construction monitoring, and construction administration for two lake dredging projects for the WV Department of Natural Resources (WVDNR) at Tomlinson Run State Park and Kanawha State Forest. Activities included subsurface investigation, regulatory approvals, construction drawings, technical specifications, construction troubleshooting, cost estimating, daily reports, and client interaction.
 - Determined the quantity of clean coal in the stockpiles at a coal preparation plant using aerial photography and nuclear densometer for the Maple Meadow Mining Company.
 - Developed the site construction plans and cross sections for a coal preparation plant by combining the drawings and other material prepared by others for the permits, material handling, preparation plant, structures and railroad. Performed the conceptual design for the water supply for the preparation plant and potentially eight underground mines.
 - Design of and preparation of construction documents for a 600,000 cubic yard failed coal slurry impoundment as an emergency project. Activities included site grading, subsurface investigation, hydraulics and hydrology analysis, road re-design, mine seals, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation. WVDEP, Abandoned Mine Lands, Ned's Branch Emergency Reclamation.
 - Design, construction monitoring, and construction administration for two lake dredging projects. Activities included subsurface investigation, regulatory approvals, construction drawings, technical specifications, construction troubleshooting, cost estimating, daily reports, and client interaction. WVDNR, Tomlinson Run State Park, Abandoned Mine Lands
 - Inspected, evaluated and design repair alternatives for Spruce Island and Sand Run Dams in Tucker County, WV for Timberline Association. Design included evaluation and embankments, improvements to inlet and outlet works, and the geometry of the spillways. Permit applications for both dams were prepared.
 - Performed annual dam inspection and certification for a 15-foot high earthen dam in Monroeville, PA for Belmont Ridge Development.
 - Performed inspection of galleys of the concrete Lake Lynn Dam in Lake Lynn, PA for Allegheny Power System.
 - Elevated the stability for the "as-built" configuration of the 200-foot high embankment for a coal slurry impoundment in Century, WV for BethEnergy.
 - Evaluation of stability and rehabilitation of an existing water retention structure located adjacent to the Ohio River for Arco Chemical Corporation.



Allegheny
Design Services
Consulting Engineers

Allegheny Design Services, LLC
Morgantown, WV



COMPANY HISTORY

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.



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**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.





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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
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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
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**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:
CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV
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



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

281 Smiley Drive, St. Albans, WV 25177

EMPLOYEES

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

CLIENTS

- Charleston Area Medical Center
- Charleston National Bank/Chase
- Concord University Nick J. Rahall II Technology Center
- District 2 Headquarters' Building HVAC Renovations
- General Motors North America Operations
- Harvard University Arboretum
- IMC Data Center, WV
- Kanawha County Commission Courthouse/Judicial Annex Renovations/Additions
- Laidley Towers, Charleston, WV
- Marshall University: Harris Hall & Smith Hall
- Meadowbrook & Burnsville Rest Areas
- Mercer County Courthouse
- Pocahontas Community Center
- St. Patrick Church Renovations, WV
- Tucker County Courthouse
- University of Charleston
- Veterans Administration
- Webster County Development Authority
- Webster County Schools
- White Sulphur Springs Welcome Center
- WV Air National Guard
- WV Army National Guard
- WV Dept. of Education
- 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 Administration – Capitol Complex
- WV Higher Education Policy Commission
- WV Parkways Authority HVAC Renovations
- West Virginia University

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.



Design/Consulting Services

COMPANY OVERVIEW

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 *Environment™ 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 *Environment™ 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 *Environment™ 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

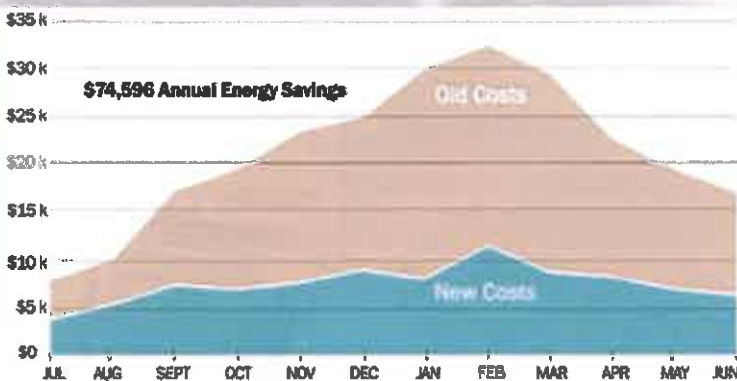
As one of the nation's leaders in Indoor Air Quality (IAQ), ZDS provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.



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.



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



1st Place 2014
ASHRAE
Technology
Award



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

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.

The ZDS team is trained and experienced in advising you on 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 efficiencies 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 engineer-ing consultation. Our project team has the unique experience of in-depth design knowledge and hands-on operations knowledge that fills in the gap between additional design services and the building owner's operational needs.

The commissioning process 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.

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 Service

10 year contract to provide a preliminary procurement plan for design, construction, and installation of an integrated intercom, emergency notification, and fire alarm system.

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-Bafeman State Hospital

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



Design/Consulting Service

Engineering for State & Local Government Facilities



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

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.

Construction Costs: **\$43,000,000**
Project Size: **128,748 ft²**

"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



WV Army National Guard Base Case Study

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.

Two recent **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

WV Army National Guard Dunbar Armory & Brushfork Armory



Total Project Cost: \$2,000,000

ZDS is currently providing comprehensive MEP engineering support for HVAC renovations at the two (2) project sites: the Dunbar Armory and the Brushfork/Bluefield Armory. Our professional services include preparation of the Construction Bid Documents issued in one package and will continue through bidding, negotiation and construction administration of the Contract.



Design/Consulting Service

Kanawha County Commission Judicial Annex & Courthouse



*"No one else could identify the MEP problems even though many had tried. Yet, ZDS provided an excellent evaluation while working well with our Judges and staff for a very successful project. We use them for all our challenging work."
- Kanawha County Commissioner*



The Kanawha County Commission hired ZDS to provide engineering planning, design, bidding and construction administration services for the renovation of the 93,000 ft² Annex and a 23,000 ft² addition using the ground floor of the parking garage connected to the Annex. The Annex includes circuit courtrooms, jury deliberation, attorney conferencing, witnessing, court clerical staff, public research, adult probation, prosecuting, maintenance, voter registration, court administration, and all public areas. The engineering for the addition included a new entrance, security checkpoint, and lobby to accommodate a building expansion for Juvenile Probation and a newly established Family Court.

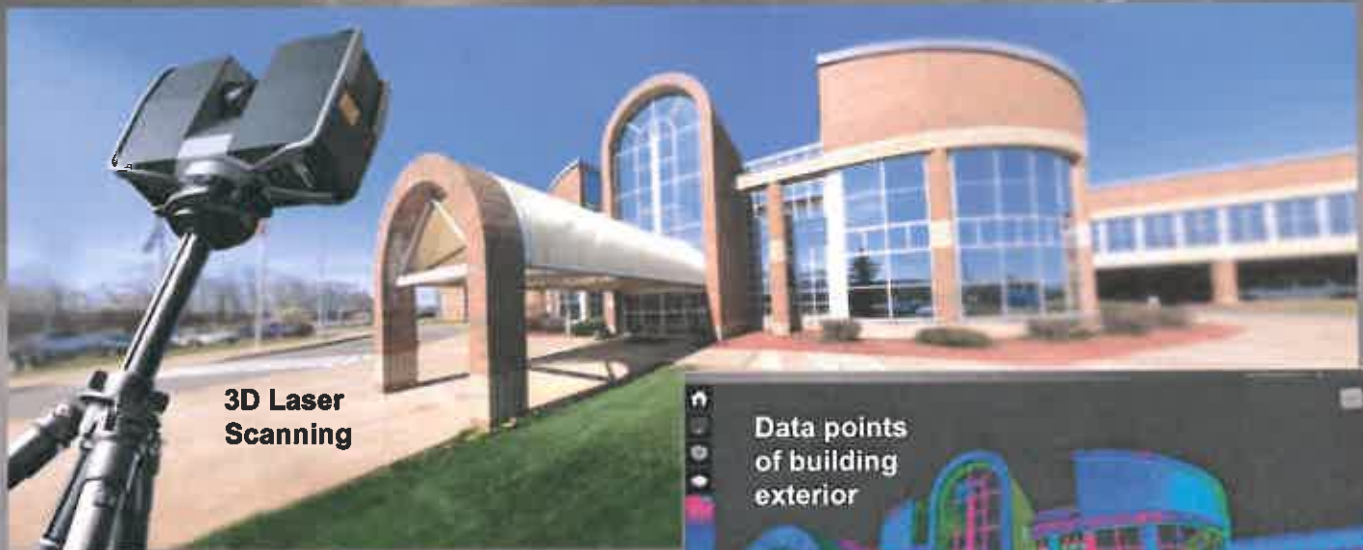
ZDS assisted in identifying a phased approach to addressing and defining Indoor Environmental Quality (IEQ) issues and modifications for the Kanawha County Courthouse.

Total Annex Project Costs: \$10,270,000
Mechanical Project Cost: \$3,200,000
Annex Project Size: Renovations 93,000 ft² plus 23,000 ft² addition

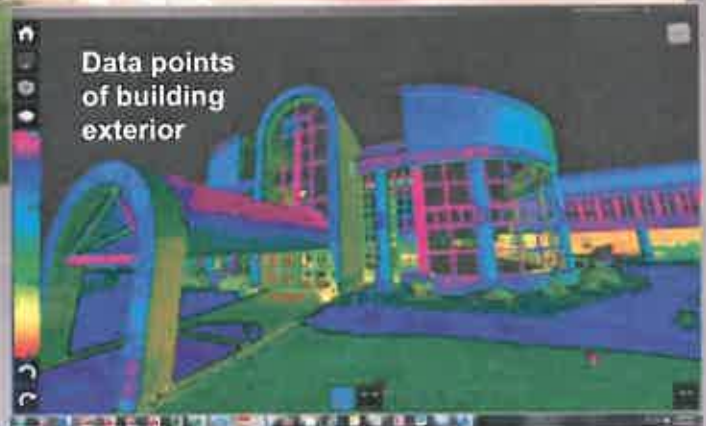

ZDS
Design/Consulting Services

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



Data points of building exterior

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.”

Greg Nicholson, DHHR Chief Operations Officer



Web Share:

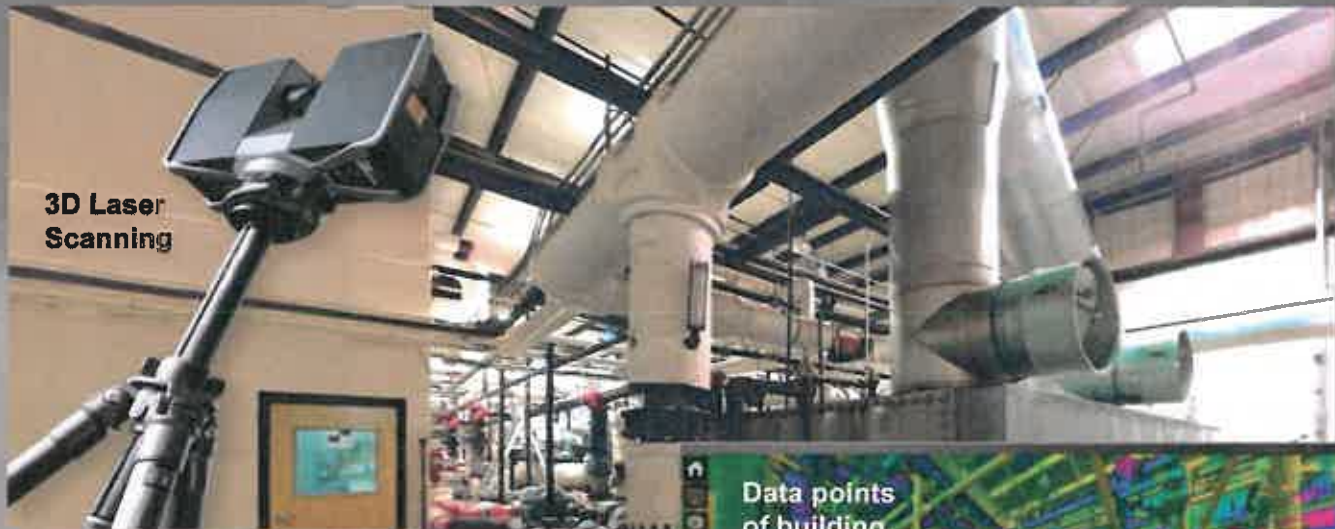
3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.



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

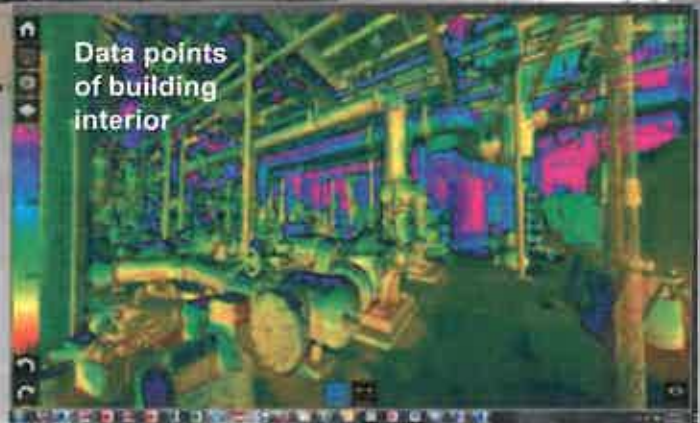


3D Laser Scanning

"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



Data points of building interior



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.



Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP

CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

Todd has over 38 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 including 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/COMMERCIAL EXPERIENCE

- Bank One, WV
- Bayer Material Science, WV
- Calvert County Aquatic Center, MD
- Culture Center, HVAC & Fire Protection
- General Motors Corp. Re-commissioning
- Jackson County Courthouse Annex
- Kanawha County Commission: 120,000 sf additions/renovations for the Judicial Annex/Kanawha County Courthouse
- Kanawha County Public Library
- Kohl's
- Laidley Towers, Charleston WV
- Mercer County Courthouse Annex
- Olin Corporation
- Phillip Morris USA
- Pendleton County Courthouse & Annex
- Public Service Commission of WV
- Rhone-Poulenc
- Robinson Grand Theatre, Clarksburg WV
- Santa Anna Federal Building, CA
- St. Patrick's Church, Weston WV
- WV Capitol Complex Central Heating Plant
- Sears
- Toyota Motor Manufacturer, WV Inc.
- Union Carbide/DOW
- United Center, Charleston WV
- Walker Machinery
- WV Air National Guard including Cx \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport for LEED Silver
- WV Army National Guard
- WV Department of Transportation/DOH
- WV Division of Protective Services
- WV Higher Education Authority
- WV General Services Division
- WV Public Service Commission Headquarters
- WV State Capitol Complex renovations
- Yeager Airport



PROFESSIONAL REGISTRATIONS

- Professional Engineer
 - Florida
 - Georgia
 - Kentucky
 - Maryland
 - North Carolina
 - Ohio
 - Pennsylvania
 - South Carolina
 - Virginia
 - West Virginia

Fire Investigation Certification under the direction of Peter Valla



Certified Energy Manager (C.E.M.) National Certification No. 2205



LEED Accredited Professional National Certification through USGBC No. 10081001

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



www.zdsdesign.com

Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP
CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

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



Design/Consulting Services

www.zdsdesign.com

Ted Zachwieja III, P.E., CEM

Chief Technical Officer

Ted has over 14 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.

GOVERNMENT/COMMERCIAL EXPERIENCE

- WV Air National Guard Maintenance Hangar and Fuel Cell Hangar, Charleston, WV – **LEED Silver Certified**
- Bayer Material Science
- Catholic Church of Ascension, Parish Hall Renovations
- Coal Heritage Trails Center Renovations
- Kanawha County Judicial Annex HVAC Renovations
- Meadowbrook Rest Areas
- I-70 Welcome Center
- CASCI Building, Charleston WV
- Morgantown Welcome Center
- Pocahontas County Community Center
- Robinson Grand Theatre, Clarksburg WV
- Servia Rest Areas
- St. Patrick's Church, Weston WV
- Stonewall Jackson Marina
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- WV Parkways Authority, Toll Booth Plazas
- WV State Capital Complex Central Heating Plant
- White Sulfur Springs Rest Area
- Numerous K-12 School Renovations



PROFESSIONAL REGISTRATIONS

Professional Engineer
Flo
West Virginia



Certified Energy Manager
(C.E.M.) Nat
Certificate No

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 Univer



www.zdsdesign.com

James E. Watters

Associate - Production Manager

Jim has nearly 40 years' experience in design and implementation of 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 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 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.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bluefield Area Transit Authority Administration and Maintenance Facility design.
- Boyd County, Kentucky Judicial Center
- Chase Towers (formally Charleston National Bank)
- Department of Transportation Rest Area prototype
- Department of Transportation Welcome Center prototype
- Fenway Park in Boston - Lightning Protection/Grounding Study
- Glenville State College
- I-70 Welcome Center
- Jackson County Libraries Renovations
- Kanawha County Commission Judicial Annex Renovations
- Meadowbrook Rest Areas North and South Bound
- Morgantown Welcome Center
- Redmond House Renovations design
- Rhone-Poulenc New Admin. offices
- Robinson Grand Theatre, Clarksburg WV
- Sacred Heart Pavilion and Daycare Ctr.
- St. Patrick's Church, Weston WV
- Shawnee Park Clubhouse
- Stonewall Jackson Marina Renovations
- Tucker County Board Office Boiler Retrofit
- Tucker County Courthouse Renovations
- WV Air National Guard - Commissioning for \$43 million maintenance and fuel cell hangars - **LEED Silver Certified**
- WV Department of Military Affairs and Public Safety Maintenance Facility in Eleanor
- WV Department of Transportation Burnsville Rest Area (**AIA Merit Award Recipient**) and Domestic Water Pumping Station
- WV Division of Culture and History Fire Alarm/Sprinkler upgrades
- White Sulphur Springs Welcome Center

PROFESSIONAL AFFILIATIONS

- Member of Investigative Engineers Association (I-ENG-A) of the Tri-State Region
- Member of the National Fire Protection Association (NFPA)
- Past 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% of energy efficiency

**ZDS**
Design/Consulting Services

www.zdsdesign.com

Paul S. O'Dell, P.E.

Senior Project Engineer

Paul has over 21 years of engineering experience involving the analysis, design, project management, specifications' writing and construction management on many projects throughout the region. This experience includes heating, ventilation, air conditioning (HVAC), plumbing, electrical systems and lighting for governmental, commercial, educational, healthcare, industrial and military facilities. He also has knowledge and experience with indoor environmental quality assessment, recommended remedial work and design of the necessary modifications in various types of buildings.

Paul assisted in the design and implementation of the pilot project for one of the largest geothermal heat pump systems in the mid-Atlantic region. He has also been involved in the design of facilities that have received the Energy Star Certification placing them in the nation's top 25% in energy savings for similar buildings and systems as well as his contribution as part of a large team effort performing mechanical systems' retro-commissioning at numerous automotive manufacturing facilities in North America.

His project experience is wide-ranging and includes the development of scope, design criteria and budget conscious designs. Working with other design professionals and through rapport with the clients he has conducted design peer reviews, construction budget and project schedule overview, Construction Administration and closeout of projects.

COMMERCIAL/GOVERNMENT EXPERIENCE

- WVARNG Armory/Annex
- Bruceton Bank
- Bank One
- Cultural Center
- Cuissets Residence
- Camp Dawson Barrack/mess hall
- DOT Huntington District II Headquarters Renovations
- Yeager Airport Terminal Expansion/Renovation
- DOH Testing Lab
- GMC Lordstown Assembly Plant
- GMC Janesville Assembly Plant
- GMC Pontiac East Assembly Plant
- GMC Bowling green Assembly Plant
- GMC Arlington Assembly Plant
- Harrison County Bank
- IMC Office Bldg.
- WV Capitol Complex Central Boiler Plant
- Kanawha County Commission Judicial Annex Additions/Renovations
- Appalachian Tire
- Laidley Towers, Charleston WV
- USDA Forestry Building
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- Numerous K-12 School Renovations

PROFESSIONAL REGISTRATIONS

Professional Engineer
West Virginia

EDUCATION

Bachelor of Science in Mechanical Engineering from WV Institute of Technology, Montgomery, WV
(Graduated Cum Laude)

PROFESSIONAL AFFILIATIONS

Member American Society of Mechanical Engineers

Member ASHRAE

Larry A. Weese

Sr. Technical Analyst

Larry has nearly 26 years of experience providing design and Construction Administration 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.

Larry's primary strengths are in the design and implementation of piping systems including all domestic water, sanitary waste/vent, storm water and natural gas combined with an expertise in water heating systems, boilers, pumps, recirculating systems, Thermostatic Mixing Valves, etc. Other strengths include a good understanding of the design and layout of HVAC systems, fire protection/sprinkler systems, lighting and other electrical systems. 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. Larry has maintained growth as technology has changed throughout the years in the field of engineering design and drafting standards beginning with ink drafting on paper, varying degrees of CAD drafting and currently BIM/REVIT.

Working on multiple National Guard projects in recent years he has experience and understanding of the United Facilities Criteria Code 3-600. Many of the facilities utilized gas-fired instantaneous water heating systems and vehicle service bays that incorporated numerous piping/tubing systems for air, grease, oil and other fluids.

Larry's experience with site utility design and coordination with the associated utility is a valuable asset on all projects, whether new construction or extensive renovations.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bobcat of Advantage Valley Facility
- Charleston Fire Station
- Diamond Electric
- Dow Process Control Facility
- Elkins Armed Forces Reserve Center
- Fifth Avenue Baptist Church
- Foodland Stores
- Gassaway Armory
- Kroger Stores
- Lewisburg Readiness Center
- Mason County 911 Center
- Moorefield Readiness Center
- Orchard Manor Fire Station
- Raleigh County 911 Center
- Randolph County 911 Facility
- Rite Aid Stores
- Silver Trees Suites Hotels
- Summersville Readiness Center
- St. Albans Armory
- St. Albans Readiness Center
- St. Johns Church
- Verizon Office Buildings
- Yeager Airport
- WV Department of Highways

EDUCATIONAL EXPERIENCE

- Fairmont State College
- Fairdale Elementary School
- New River CTC
- Nitro High School
- South Charleston Middle School
- Sissonville Middle School
- Pikeview Middle School
- Lewisburg Elementary School
- Talcott Elementary School
- West Liberty University
- Marshall University
- WV Institute of Technology



EDUCATION

West Virginia University
Master of Science in Wood Science

West Virginia University
Bachelor of Science in Wood Science



www.zdsdesign.com

Boyd, Gary MA, CEFP

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

August 11, 2016

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,



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



July 19, 2013

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

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



Michael Pickens



February 1, 2016

RE: ZDS Design/Consulting Services

I have had the privilege to work with ZDS Design/Consulting Services' principals and many of their staff since working at the School Building Authority in the 1990's in my roles at the School Building Authority to my current role as Executive Director of the Office of School Facilities at the West Virginia Department of Education.

When an emergency issue arose, they would immediately make themselves available to help. ZDS's principal, Todd Zachwieja, did not hesitate to board a helicopter during a weekend to help assess the damage to the State's school facilities when damaging floods occurred. Helicopters were the only way to reach many of the facilities because the roads had been washed away or were impassible. Anytime a challenging issue has arisen that no one knew how to resolve, ZDS has stepped up to solve the challenges. Their extensive engineering knowledge of energy efficient systems, HVAC, controls, lighting, power and plumbing systems has always been at the leading edge in the industry, providing innovative solutions that also minimize energy and operating costs. I have always considered their approach in engineering design and commissioning for buildings to be the best and would highly recommend them to anyone.

Their ability to work with the State Fire Marshal and other agencies – while guiding everyone to a practical design approach – always provided each project with the best value. They are much more than excellent design engineers; they also understand the importance of operating and maintaining equipment and have hands-on knowledge to troubleshoot and also commission to ensure our projects were a great success. Their combined engineering design and commission skills prove to be invaluable.

ZDS Design/Consulting Services was also selected to help the WV Department of Education and the School Building Authority in writing new codes and standards to raise the bar for the entire State. They were chosen because their projects were a success while we were having challenges with others. Todd Zachwieja was also asked to teach school facility staff members, and his reference books continue to be used today. I would always think of ZDS first whenever a challenge would occur, knowing I would get the best results possible.

I trust ZDS's staff in their technical expertise and their approach in solving challenging engineering issues and believe that anyone who uses them will be as satisfied as I have been. They are worth it!

Sincerely,

Michael E. Pickens



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center

**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
Amett 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

WYK Associates, Inc.

James A. Harris

(Former, County Administrator of Harrison County)
Executive Director Health Access, Inc.
489 Washington Avenue
Clarksburg, WV 26301
(304) 622-2708

Mark Bonamico

Bonamico Construction
424 Lawman Avenue
Bridgeport, WV 26330
(304) 848-2372

Dr. Judy P. Byers, Director of Folklife Center

Fairmont State University
1201 Locust Avenue
Fairmont, WV 26554
(304) 367-4861

Reta Griffith, GM - Elkins Region

Frontier Communications
(Former, Pocahontas County Commission)
902 3rd Avenue
Marlinton, WV 24954
(304) 799-3994

Steven Haning

Diamond Development, LLC
209 West Pike Street
Clarksburg, WV 26301
(304) 622-1562

Martin Howe, City Manager

City of Clarksburg
222 W. Main Street
Clarksburg, WV 26301
(304) 624-1677

Dr. C. Kirkland, Ph. D, PMP

Executive Vice-President
Salem International University
223 West Main Street
Salem, WV 26426
(304) 782-5011

Ben Propst

Barbour County Coordinator
8 North Main Street
Phillippi, WV 26416
(304) 457-4339

Steve Casto, Superintendent

Lewis County Schools
239 Court Street
Weston, WV 26452
(304) 269-8333

Geoff Marshall

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

Nell Quinn

Director of Coordinator Services
Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
(304) 326-7300

Richard Roach, Mayor

Town of Gassaway
712 Braxton Street
Gassaway, WV 26624
(304) 364-5111

Dr. Mark Manchin, Superintendent Harrison County Schools

445 West Main Street
Clarksburg, WV 26330
(304) 642-3300

Dr. Jeffrey Browning, DDS

Total Dental
1219 Johnson Avenue
Suite 201
Bridgeport, WV 26330
(304) 842-7591



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Master Plan – Camp Dawson Training Center

TESTIMONIALS



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



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,

A handwritten signature in cursive script that reads "Emma Clarke".

Emma Clarke
Finance Officer

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



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



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



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



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



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



**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



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) 824-0004

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

James B. Swiger, AIA, NCARB, LEED AP

President/Principal

WYK Associates, Inc.

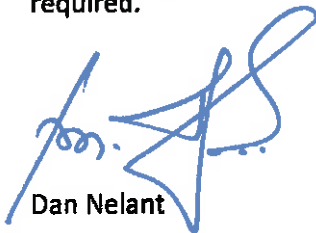
205 Washington Avenue

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



Health Access, Inc.

489 Washington Avenue • Clarksburg, West Virginia 26301

Phone: 304-622-2708 • Fax: 304-623-9302 • E-mail: healthac@ma.rr.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

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)
RR 1 Box 122A
Marlinton, WV 24954
304-799-4523
retagriffith@frontiernet.net



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,

A handwritten signature in black ink, appearing to read "Chuck Feathers", written in a cursive style.

Charles A. Feathers, Chief

Bridgeport Fire Department

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

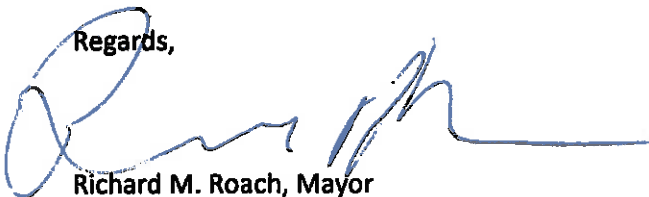
EDNA WILSON

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 read 'Richard M. Roach', with a long horizontal flourish extending to the right.

Richard M. Roach, Mayor

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