

**State of West Virginia
Purchasing Division
West Virginia Schools
for the Deaf and Blind**

CEOI 0403 DBS2200000003
Statement of Qualifications A/E
Design Services General Campus
Upgrades and Renovations
July 13, 2022

07/12/22 12:49:19
West Virginia Purchasing Division



**EXPRESSION OF INTEREST
ARCHITECT AND ENGINEERING SERVICES
WV PURCHASING DIVISION
WV SCHOOLS FOR THE DEAF AND BLIND
GENERAL CAMPUS SITE
UPGRADES AND RENOVATIONS
CEOI 0403 DBS2200000003**

JULY 13, 2022

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July 12, 2022

Joseph E. Hager, III
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: Solicitation No. CEOI 0403 DBS2200000003

Dear Mr Hager:

Omni Associates-Architects, Inc. is pleased to submit our Proposal to provide architectural and engineering design services to the WV Schools for the Deaf and Blind for General Campus Site Upgrades and Renovations.

Omni has extensive design experience with similar projects as well as undertaking projects in phased approaches and keeping facilities operational while improvements are being made.

Our team for this project would include **Tower Engineering, Inc.** who would provide MEP and Fire Protection Services, **Civil and Environmental Consultants (CEC)** to provide civil and geotechnical engineering and landscape architecture.

Omni Associates will serve as the lead firm and coordinator of architectural and engineering services. As Omni's Principal-in-Charge, I will guide this project from programming to construction administration in an efficient and effective manner and serve as the as the point-of-contact.

Thank you for allowing us to present our credentials.

Sincerely,
OMNI ASSOCIATES – ARCHITECTS, INC.

A handwritten signature in blue ink that reads 'David E. Snider'.

David E. Snider, AIA, NCARB, ALEP
Principal

DESIGN TEAM QUALIFICATIONS

OMNI ASSOCIATES - ARCHITECTS is an award-winning architectural firm located in Fairmont, West Virginia. Our approach to design has allowed us to avoid the confines of specialization and afforded us the opportunity and experience to create a diverse body of work.

Since the beginning in 1980, Omni has earned recognition for the programming, planning, and design of a variety of structures; which includes corporate office and governmental buildings, health care facilities and medical campuses, academic and educational buildings, recreational, religious, military and public safety facilities.

Our reputation and superior work product are the result of efficient and effective communication with our clients and consultants.

Each project is a unique undertaking that begins with analyzing the needs and desires of the client, and interpreting them into a distinctive design that exceeds expectations.

Omni has a successful history of designing intimately with each client and creating collaborative solutions that meet the project goals, resulting in an impressive record of customer satisfaction. These qualities that draw our clients back, resulting in lasting relationships.

Omni Associates provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient project management to provide on-time deliverables.

We firmly believe that the best gauge in determining our performance and abilities is the quality of the personnel of

which we are comprised. Omni's greatest resource is our professional staff of dedicated, experienced, and creative individuals. Our project team goes beyond our in-house staff however. Omni carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client.

Throughout our years of experience, we have worked with a variety of consultants specializing in structural engineering, civil engineering, mechanical and electrical engineering, and other disciplines as each project dictated. You can be assured that the consultants we select for your project are selected for their particular and relevant experience as well as their superior work ethic.

It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud.

In short, for each project we undertake at Omni, we carefully staff our teams, including in-house professionals and outside consultants, with the type of personnel we would want working for us, to work for you.

DESIGN TEAM QUALIFICATIONS cont'd

Omni Associates - Architects provides comprehensive, in-depth professional architectural services for new construction, renovation, addition, and adaptive reuse utilizing a variety of delivery methods to best serve our clients' needs.

Design-Bid-Build Delivery Method

Omni has performed private and public projects of every building type using this traditional method of project delivery. We organize your entire project in advance of bidding and work extensively with you to achieve alternates to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing. Omni has successfully negotiated with contractors to maintain changes and costs to a minimum and still achieve the initial time schedule.

Omni has also worked on "fast-track" and "multiple-prime" contract projects to achieve an accelerated building construction time schedule. As a variation of the traditional design-bid-build delivery, the negotiated select team approach allows for selection of a contractor early in the design process. We prepare construction drawings in stages and bid these "parts" of the total building program so construction can be ongoing as the next phase is programmed and designed. We have worked with General Contractors, Construction Managers and multiple prime subcontractors to successfully complete this type of project delivery.

Design-Build Delivery Method

More and more owners and developers are seeking a simpler delivery style with a single point of responsibility for both design and construction. Under design-build, a consolidated entity provides both design and construction services to the owner. A single contract is established between the owner and the architect-contractor or design-

builder. Omni has experience with both scenarios and has contracted with owners and with general contractors to achieve this streamlined method of project delivery for two West Virginia schools as well as numerous private Owners. Additionally, Senior Principal, Richard T. Forren is a member of the West Virginia Design Build Board.

Construction Administration

Omni has worked on projects for only the construction phase of the total building life. This would include projects designed by another firm who needs local supervision or a "pre-designed" project from a national restaurant or store, which requires local implementation. Omni has also performed bank or financing inspections to determine the completion status of the project for periodic applications for payment.

ORGANIZATIONAL CHART



PRINCIPAL OWNERSHIP

Richard T. Forren, President
Adam L. Rohaly, Vice President
John I. Rogers, III Member
David A. Stephenson, Sec/Tr

ARCHITECT EMERITUS

Stephen A. Barnum Founding Member | Est 1980

PRINCIPAL ARCHITECTS

Jason M. Miller
David E. Snider

INTERN ARCHITECTS

Jaime Ryan, LEED AP
Joshua Shinn
Sarah Bush
Mariah Falcon

REVIT OPERATORS

Reuben Losh, BIM Manager
Rich Greathouse
Dan Baldwin
Greg Morris

PROJECT SUPPORT

Shelly McLaughlin-Snider, Project Administrator
Eileen Layman, CPA
Colbi Dick, Accounting Manager
Lisa Bombardiere, Administrative Assistant
Katie Nunan, Marketing
Riley Tonkery, FSU Student Intern

TECHNICAL EXPERIENCE

Upgrading existing technology and utilizing the latest design tools available is a key component of our business model. Technology facilitates innovative design, results in economic benefits for our clients, and enhances communication with clients and consultants.

BIM: Building Information Modeling

In 2006, Omni Associates began the transition from traditional CAD software to Autodesk® Revit® Building Information Modeling (BIM). We immediately recognized the basic benefits to both designers and owners: more efficient, cost-effective project delivery, and an accurate building model that can later assist in both energy analysis and building management.

Omni implemented the use of BIM as our primary software platform for all projects in 2006. In utilizing BIM, we discovered the real depth of its value.

With a virtual model of the building, clients can clearly see the design intent as the project progresses and design options can be explored with greater ease than ever before.

Sharing the model among all disciplines as the design progresses allows early input from all of the design professionals involved, resulting in efficient designs.

Creating a building in the virtual world before constructing it in the real world allows the design team to anticipate conflicts and objections before they arise, eliminating many issues which could result in project change orders or Requests For Information from the contractor.

Omni is proud to show that we do not just use Revit software, but we are adept at utilizing it, and can provide skilled support as needed.

Omni Project Manager, Reuben Losh is now an Autodesk Revit Architecture 2011 Certified Associate.

Electronic Submission of Project Documents

Since 2007, Omni has utilized a web-based solution for secure file storage and project team collaboration. The site employs a simple and intuitive interface, similar to social networking sites, that is much easier to navigate than an FTP site. This encourages communication among team members while leveraging the security of data encryption and controlled access.

This tool supports building information modeling (BIM) workflows and can be used throughout all phases of a project for such tasks as file storage, RFI and Shop Drawing management, and project milestone tracking. Since these processes are electronic, the time it would take to mail or fax documents is eliminated and project information is centralized. Project information is hosted on secure third-party servers, which means that it is available to team members from wherever they have internet access. The Owner and Architect work together to determine to whom and to what extent site access is given.

PROJECT TEAM

In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy and practice that a Principal remains with the project from commencement to closeout. It is essential that a single individual be intimately involved in every aspect of the process to ensure the client's needs are being met in a timely and cost effective manner and that the Contract Documents reflect the intent as well as the content of the design.

Omni Associates - Architects

David Snider, AIA, NCARB

Principal in Charge

Mr. Snider has over 20 years of experience as a licensed architect and Project Manager and has been a Principal in Charge of projects for over 5 years. Known as one of Omni's most effective project managers, Mr. Snider has demonstrated his skills successfully on several projects for a Confidential Financial Client, United Technical Center, WV, and East Dale Elementary School. As the Principal in Charge, his primary responsibility is to guide and coordinate the team in the development the overall concept of design by performing technical tasks which include project space programming; schematic layout of functional spaces; aesthetic design and development; and concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection.

Omni Associates - Architects

Joshua Shinn

Project Manager

Mr. Shinn joined Omni in 2020 after working for 10 years as a Planner and Construction Manager for West Virginia University. In his brief time at Omni, Mr. Shinn has demonstrated his vast experience as a PM on such projects as the WVU Engineering Sciences G85 Lab project, the Pierpont Community and Technical College's Facilities Master Plan and the renovation of the campus data center for the Community College of Allegheny County. Mr. Shinn's previous work at WVU included work on projects such as Eiesland Hall, Chitwood Hall, and White Hall.

CONSULTANTS

For each project we undertake at Omni, we carefully staff our teams, including in-house professionals and outside consultants, with the type of personnel we would want working for us, to work for you. Omni has specifically chosen **Tower Engineering, Inc. to provide MEP Engineering and Fire Protection services** for this project. Omni and Tower share a long history of successful project collaboration.

Tower Engineering, Inc.

James N. Kosinski, PE, LEED AP

Principal, President, Mechanical Engineering

Mr. Kosinski is primarily responsible for the design of HVAC systems and their components for Tower Engineering's K-12 projects. Jim's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analyses, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures. As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

Tower Engineering, Inc.

T Stephanie Bako, PE

Principal, Electrical Engineering

Ms. Bako is responsible for the design of electrical systems and their components for educational, commercial, and governmental facilities, with a significant amount of experience in the K-12 educational sector. Steffanie's design responsibilities include lighting layout, fixture selection, and lighting calculations; power distribution from service entrance to branch devices, including coordination with the appropriate utility company, coordination with the architect for owner-provided equipment, and coordination with other disciplines for equipment provided under other trades; emergency power distribution systems, including engine generators and various battery back-up systems; fire alarm detection and alarm systems; public address and emergency communications systems; telecommunications cabling infrastructure; and security systems.

PROJECT TEAM cont'd

Tower Engineering, Inc.

Michael S. Plummer, PE, CPD, LEED AP

Principal, Plumbing and Fire Protection

Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings. His plumbing duties include the design and layout of all domestic hot and cold water, sanitary drainage and storm water management systems. He is also responsible for the natural gas piping systems along with specialty systems involving laboratory or hospital gases. Mike's fire protection responsibilities include the design of water supply and pumping systems involving fire mains and sizing of fire pumps, the layout of standpipe and sprinkler zone locations, sprinkler head placements and reviewing hydraulic calculations for contractor designed sprinkler systems. He is a LEED Accredited Professional and designs all his projects with sustainability in mind.

Tower Engineering Inc.

Thomas R. Valerio, PE, CEM

Project Manager for HVAC

Tom Valerio manages and provides design and construction administration services for approximately \$10 million of HVAC construction annually. His primary responsibilities include the design and analysis of HVAC systems for schools, universities, commercial and light industrial facilities, laboratories, health & science buildings, retail and municipal facilities. As a Certified Energy Manager, Tom improves facility energy performance by analyzing energy consumption, developing energy conservation measures, determining their probable construction cost, and calculating their return on investment.

PROJECT TEAM cont'd

**Civil and Environmental Consultants, (CEC)
Steve A. Cain, PE
Vice President**

Mr. Cain, has 28 years of experience in civil engineering design and project management. Steve's experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design. Steve has also spent a large part of his career in managing projects from conception to completion. As a project manager Steve has assisted clients in identifying potential project needs, assisting the client in securing project funds, performed and directed detail design, and participated in and managed construction activities.

**Civil and Environmental Consultants, (CEC)
Thomas W. Adams, PE
Senior Project Manager**

Mr. Adams has 17 years of experience as a project engineer and project manager in completing site development projects including commercial, residential, educational, industrial, oil & gas, and municipal. Design experience includes site layout, grading, ADA compliance, storm water management, erosion and sediment control, water and wastewater design, utility coordination, and NPDES permitting. Mr. Adams has an excellent understanding of construction cost estimating, permitting requirements, and bid documents preparation.

**Civil and Environmental Consultants, (CEC)
James Christie, P.L.A.
Principal**

Jim is a Principal in the Civil department with over 20 years of experience as a Professional Landscape Architect. In his capacity, he is responsible for complete project management within CEC. He is responsible for site design, landscape architecture, site development entitlement services, construction documents, client management, personnel supervision, and construction administration on numerous municipal, commercial, and institutional projects. Jim is a detail-oriented, highly-creative Landscape Architect with 24 years of dedicated experience in designing and implementing projects to support client needs and meet business objectives. His wide range of project experience ranges from landscape design to destination resort design in multiple regions both within the United States and internationally. Jim has dedicated his career to projects that have a direct effect on the local economy and job growth.

DAVID E. SNIDER, AIA, NCARB

EDUCATION

Master of Architecture - Virginia Polytechnic Institute, 2001 B.S. Engineering Technology (Architecture) - Fairmont State College, 1989
Associate of Applied Design (Drafting and Design) - Fairmont State College, 1989

REGISTRATION / PROFESSIONAL AFFILIATIONS

American Institute of Architects, Member
American Institute of Architects—West Virginia, Member
Accredited Learning Environment Planner (ALEP)
U.S. Green Building Council, Firm Membership Associated Builders and Contractors, Firm Membership Registered in West Virginia

GENERAL EXPERIENCE

Joined Omni Associates in 1995 and became a Principal Architect in 2015. Practice has included diverse project types including primary, secondary, and higher-education education facilities, office buildings, secure, mission critical facilities, health care facilities, commercial design, multifamily and single-family housing, and manufacturing facilities. Extensive experience with the preparation of construction documents, material specifications, and bidding documents as well as construction administration. **One of Omni's most effective project managers.**

SELECT PROJECT EXPERIENCE

New Construction

Brookhaven Elementary School
Lincoln Middle School
Franklin Elementary School
Lumberport Elementary School
West Fairmont Middle School
Fairmont Senior High School Cafeteria
Genesis Youth Crisis Center
West Virginia High Technology Consortium Foundation (WVHTCF)
Mylan Pharmaceuticals

Renovations:

United Technical Center
Town of White Hall Municipal & Public Safety Building White Collar Crime Offices
White Collar Crime Data Center
Confidential Client Secure Facility
Confidential Client Secure Inspection Building
Northrup Grumman Offices
NASA Offices
Wallman Hall Renovations
Robert C. Byrd Aerospace Center Renovations
Colebank Hall Renovations

JOSHUA R. SHINN, NCARB

EDUCATION

Master of Architecture: University of Tennessee, 2007

B.A. Art History: West Virginia University, 2000

RELEVANT EXPERIENCE

Omni Associates – Architects: 2020-Present
Project Manager

WVU Engineering Sciences Building Lab G85

Renovation of Fabrication and Design Lab

With H.F. Lenz

Morgantown WV

Pierpont Community and Technical College Master Plan

Multi-campus, multi-building assessment and planning

Fairmont, WV

Community College of Allegheny County

Renovation of Central Campus Data Center

With H.F. Lenz

Pittsburgh, PA

West Virginia University – Planning, Design, Construction, and Scheduling: 2010-2020
Planner and Construction Project Manager

- Worked closely with individual College administrations and FM to provide overall management and administration of projects from Schematic Design through end of construction. Provided oversight of construction to assure spaces were constructed per the Colleges requirements and budgets.

WVU Engineering Sciences Building Lab G86

Renovation of Advanced Prototyping Lab

With H.F. Lenz

Morgantown WV

WVU Martin Hall Incubator Lab

College of Media

Multipurpose Audio Visual and Classroom Space, Offices

Morgantown, WV

Oglebay Hall Forensics Lab and Classroom Renovation

New Ground Floor Forensic Lab and Renovation of Computer Classroom

Grant Funded

Morgantown, WV

WVU Eiesland Hall IEP Classroom Renovation and HVAC Replacement

With H.F. Lenz and Omni Associates – Architects

New Third/Fourth Floor Classrooms and replacement of the HVAC system

Morgantown, WV

Numerous other lab, office, and classroom projects for the Eberly College in buildings including Woodburn Hall, Chitwood Hall, Brooks Hall, Armstrong Hall, Hodges Hall, Life Sciences Building, Chemistry Research Lab, Oglebay Hall, Stansbury Hall, and Eiesland Hall.

JAMES N. KOSINSKI, PE, LEED AP

PRINCIPAL, PRESIDENT
SENIOR PROJECT MANAGER, MECHANICAL ENGINEERING

Mr. Kosinski is primarily responsible for the design of HVAC systems and their components for Tower Engineering's K-12 projects. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems.

Jim's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analyses, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures. As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

REPRESENTATIVE EXPERIENCE

Sewickley Academy - Sewickley, PA

Oliver Science Building; Alumni Gymnasium

Bethel Park School District - Bethel Park, PA

Benjamin Franklin Elementary School Renovation; George Washington Elementary School Renovation; Neil Armstrong Middle School Renovation; New High School

Berkeley County Board of Education - Martinsburg, West Virginia

New West Central Intermediate School

Central Greene School District - Waynesburg, PA

High School Renovation

Millcreek Township School District - Erie, Pennsylvania

Tracy Elementary; Westlake Middle School

North Allegheny School District - Pittsburgh, Pennsylvania

Marshall Elementary School renovation; McKnight Elementary School addition/renovation; North Allegheny Intermediate School addition/renovation

Webster County Board of Education - Upper Glade, West Virginia

High School Renovation

North East School District - North East, Pennsylvania

Earl C. Davis Elementary School addition/renovation

Peters Township School District - Peters Township, Pennsylvania

New high school

Pine Richland School District - Gibsonia, Pennsylvania



EDUCATION

Bachelor Architectural
Engineering
Penn State University 1989

REGISTRATION

PE, Pennsylvania
PE [REDACTED]

PE, West Virginia
PE [REDACTED]

PE, New York
PE, Maryland

ICEES Registered

LEED Accredited Professional
[REDACTED]

AFFILIATION

American Society of Heating,
Refrigeration & Air Conditioning
Engineers (ASHRAE)





T STEFFANIE BAKO, PE

PRINCIPAL, DEPARTMENT HEAD ELECTRICAL ENGINEERING DEPARTMENT

Ms. Bako is responsible for the design of electrical systems and their components for educational, commercial, and governmental facilities, with a significant amount of experience in the K-12 educational sector. In addition to her roles as Principal and Department Head, Steffanie continues to provide design and project management services on a number of projects.

Steffanie's design responsibilities include lighting layout, fixture selection, and lighting calculations; power distribution from service entrance to branch devices, including coordination with the appropriate utility company, coordination with the architect for owner-provided equipment, and coordination with other disciplines for equipment provided under other trades; emergency power distribution systems, including engine generators and various battery back-up systems; fire alarm detection and alarm systems; public address and emergency communications systems; telecommunications cabling infrastructure; and security systems.

Additional project responsibilities include preparation of engineering drawings, technical specifications, opinions of probable cost, review of submittals, and field observation.

PROFESSIONAL EXPERIENCE

Sewickley Academy – Sewickley, PA
Beaver Road Sports Complex

Bethel Park School District - Bethel Park, PA
Benjamin Franklin Elementary School Renovation
George Washington Elementary School Renovation
Neil Armstrong Middle School Renovation
New High School

Seneca Valley School District - Cranberry Township, PA
New K-4/5-6 School
MEP Infrastructure Improvements (multiple schools)

Peters Township School District - Peters Township, PA
New High School

Franklin Regional School District - Murrysville, PA
Sloan Elementary School Addition & Renovations
New Intermediate School

Grove City Area School District - Grove City, PA
Hillview Elementary School Addition & Renovations

Westinghouse Arts Academy Charter School - Wilmerding, PA
High School Renovation

North Hills School District - Pittsburgh, PA
McIntyre Elementary School Classroom Addition
Ross Elementary School Addition & Renovations
Highcliff Elementary School Addition & Renovations

South Fayette Township School District - McDonald, PA
High School Addition
New Intermediate School

Girard School District - Girard, Pennsylvania
Rice Elementary School Addition & Renovations

West Jefferson Hills School District - Jefferson Hills, PA
New High School

Pine Richland School District - Pine Township, PA
High School Addition

Moon Area School District - Moon Township, PA
New Moon High School
McCormick Elementary School Renovation

Harrison County Schools - WV
Lumberport Elementary School Renovation

EDUCATION
BS Electrical Engineering
Case Western Reserve University
1997

REGISTRATION
Professional Engineer
PA - [REDACTED]
OH - [REDACTED]
WV - [REDACTED]

AFFILIATION
Illuminating Engineering Society of North America (IES): Treasurer Pittsburgh Section





MICHAEL S. PLUMMER, PE, CPD, LEED AP

PRINCIPAL, DEPARTMENT HEAD PLUMBING AND FIRE PROTECTION DEPARTMENT

Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings. His plumbing duties include the design and layout of all domestic hot and cold water, sanitary drainage and storm water management systems. He is also responsible for the natural gas piping systems along with specialty systems involving laboratory or hospital gases. Mike's fire protection responsibilities include the design of water supply and pumping systems involving fire mains and sizing of fire pumps, the layout of standpipe and sprinkler zone locations, sprinkler head placements and reviewing hydraulic calculations for contractor designed sprinkler systems. He is a LEED Accredited Professional and designs all his projects with sustainability in mind.

Mike's duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines. He also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing and Fire Protection Department.

PROFESSIONAL EXPERIENCE

Bethel Park School District - Bethel Park, Pennsylvania
New High School

Beaver Area School District - Beaver, Pennsylvania
College Square Elementary Renovation

Brooke County Board of Education - Follansbee, West Virginia
Hooverson Heights Primary School; Bethany Primary School

Chartiers Valley School District - Bridgeville, Pennsylvania
Middle School Addition and Alterations; High School Addition and Alterations

Deer Lakes Area School District - Russellton, Pennsylvania
New Middle School

Girard School District - Girard, Pennsylvania
Rice Avenue Middle School Renovation

Peters Township School District - Peters Township, Pennsylvania
New High School

EDUCATION
BS, Mechanical Engineering
Penn State University 1997

REGISTRATION
Professional Engineer, PA
PE [REDACTED]

Certified in Plumbing
Design (CPD), 1998 and 2015

LEED Accredited Professional
[REDACTED]





THOMAS R. VALERIO, PE, CEM

ASSOCIATE; PROJECT MANAGER DEPARTMENT HEAD FOR HVAC

Tom Valerio manages and provides design and construction administration services for approximately \$10 million of HVAC construction annually. His primary responsibilities include the design and analysis of HVAC systems for schools, universities, commercial and light industrial facilities, laboratories, health & science buildings, retail and municipal facilities. Tom draws from over 30 years of construction engineering experience to lead teams that provide cost effective, energy efficient solutions.

As a Certified Energy Manager, Tom improves facility energy performance by analyzing energy consumption, developing energy conservation measures, determining their probable construction cost, and calculating their return on investment.

REPRESENTATIVE EXPERIENCE

Sewickley Academy – Sewickley, PA

Oliver Science Building; Means Event Center

Chartiers Valley School District – Bridgeville, PA

Site Assessment

New 200,000 SF High School Addition

New 130,000 SF Middle School

South Park School District – South Park, PA

New Maintenance Building

Steel Valley School District – Munhall, PA

High School HVAC Renovations

Park Elementary Annex Heat

High School Building Automation System (BAS) Upgrades

Montour School District – McKees Rocks, PA

Middle School Energy Study

Penn Hills School District - Penn Hills, Pennsylvania

New Elementary School

Pittsburgh Public Schools - Pittsburgh, Pennsylvania

Allegheny Elementary & Middle Classical Academy Alterations and Additions

West Liberty Elementary School Alterations and Additions

Washington School District - Washington, Pennsylvania

Park Elementary School

EDUCATION

B.S., Mechanical Engineering
University of Pittsburgh 1982

REGISTRATION

Pennsylvania

PE

West Virginia

PE

AFFILIATIONS

LEED Accredited Professional

U.S. Green Building Council

Certified Energy Manager
(CEM) 2008



Steve A. Cain, P.E.

Vice President



29 YEARS OF EXPERIENCE

EDUCATION

B.S., Engineering Technology - (Civil Emphasis),
Fairmont State University, 1992

Mr. Cain, a professional engineer with CEC, has 28 years of experience in civil engineering design and project management.

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

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

Steve also has lead and managed over 100 miles of mid-stream natural gas pipeline design projects. These projects encompassed preliminary alignment selection, in the field alignment routing, oversight of property "deed mosaics", construction plan oversight, and as-built preparation.

PROJECT EXPERIENCE

Residential/Commercial Development

Boaz Development Site Design, Pope Properties , Williamson, WV

Role: Project Manager and Lead Design Engineer

Project Manager and engineer for site design and permitting for a 144 unit residential patio home complex in Williamson, WV. Project required site design and grading, storm water design, utility coordination, and local/state permitting. Utility design included a duplex sanitary sewer lift station and connection to the existing utility force main.

Emerson Commons , Pope Properties , Parkersburg, WV

Role: Project Manager and Lead Design Engineer

Lead the design and preparation of construction drawings for three phases of the expansion of Emerson Commons Development of approximately 45 acres in Parkersburg, West Virginia. Provided engineering oversight on the site grading design and earthwork balancing, roadway and utility design, stormwater management design, and highway improvement plans for Emerson Avenue (WV Route 68). Performed the construction management for the project and provided on site engineering during construction services.

Charles Pointe Development , Genesis Partners, Bridgeport, WV

Role: Project Manager and Lead Design Engineer

Lead the design and preparation of construction drawings of approximately 104 total acres to yield approximately 67 pad-ready acres that will support an estimated 650,000 square feet of sales tax generating uses, an estimated \$80 million of new construction, an estimated annual excise sales tax of \$9.75 million, and an estimated annual property tax of \$1.5 to \$2 million.

EXPERTISE

Sanitary Sewer Evaluation Surveys

Wastewater Pumping System Design & Rehabilitation

REGISTRATIONS

Professional Engineer

- WV
- MD
- PA

CERTIFICATIONS

SafeLand USA - Basic Orientation,
PEC Safety

10-hour Construction Safety,
Occupational Safety & Health
Administration



Civil & Environmental Consultants, Inc.

Steve A. Cain, P.E.

Vice President

Provided engineering oversight on the site grading design and earthwork balancing, roadway and utility design, stormwater management design, and highway improvement plans for Jerry Dove Dr. (WV Route 279). Performed the construction management for the project and provided on site engineering during construction services.

Ray Dental Office, Linda Ray, DDS, Pleasant Valley, WV*

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

Square at Falling Run, Mac Warner, Morgantown, WV*

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

Fisher Mountain Estates, LGI, Pendleton County, WV*

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

Roadways

Route 250 Waterline Relocation, City of Fairmont, Fairmont, WV*

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

Route 250 (Raw) Waterline Relocation, City of Shinnston, Fairmont, WV*

Steve was the Assistant Project Manager in the creation of plans for the relocation of the 16-inch raw water line located along US Route 250 South of Fairmont for the City of Shinnston in preparation for a road widening project. Served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

S. Alabama Street and S. Georgia Street Improvements, City of Martinsburg, Martinsburg, WV

Role: Project Manager and Lead Design Engineer

Provided project management and lead design engineering for the site investigation, surveying, curbing design, pavement rehabilitation design, preparation of construction documents, construction administration, and construction quality assurance for South Georgia Street and South Alabama Street. Total rehabilitation cost for both of the streets was nearly 1.3 million dollars and included the rehabilitation and addition of nearly 25 ADA accessible ramps.

Transportation

Street Lighting Project Phase II, Town of Lumberport, Harrison County, WV*

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

High Street Retaining Wall and Pedestrian Access, City of Shinnston, Harrison, WV*

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

** Work performed prior to joining CEC*

PROFESSIONAL AFFILIATIONS

Fairmont State University Technology Advisory Board

West Virginia Rural Water Association

American Society of Highway Engineers

Thomas W. Adams, P.E.
Senior Project Manager



17 YEARS OF EXPERIENCE

EDUCATION

B.S., Civil Engineering, West Virginia University,
2003

M.S., Civil Engineering, West Virginia University,
2005

Mr. Adams has experience as a project engineer and project manager in completing site development projects including commercial, residential, educational, industrial, oil & gas, and municipal. Design experience includes site layout, grading, ADA compliance, storm water management, erosion and sediment control, water and wastewater design, utility coordination, and NPDES permitting. Mr. Adams has an excellent understanding of construction cost estimating, permitting requirements, and bid documents preparation.

PROJECT EXPERIENCE

Bridgeport Indoor Sports and Recreation Center, Omni Associates, Bridgeport, WV

Role: Project Engineer

Civil engineering services for the proposed City of Bridgeport 40 million dollar recreational complex on 55+ acres. CEC provided services to create the 55+ acre site in mountainous terrain and meet ADA regulations, the project moved over 350,000 cubic yards of earth. Project required phasing of construction to allow for permit issuances and funding to be finalized.

United Technical Center, Omni Associates, Clarksburg, WV

Role: Project Manager

Civil engineering services for improvements at the United Technical Center near Clarksburg, WV. CEC provided services to address drainage and grade issues of an existing parking lot and layout and design of a security fence around the campus.

East Dale Elementary School, Omni Associates, Fairmont, WV

Role: Project Engineer

Civil engineering services for improvements to the access, parking, ADA compliance, and drainage for a building addition at the school. CEC provided services to reconfigure an existing parking lot and provide suitable ingress and egress for buses, parents, and employees.

Cubby's Daycare Facility, VanNostrand Architects, PLLC, Bridgeport, WV

Role: Project Manager

Project manager for site design and permitting for a child daycare facility building within an existing development. Project required site design and grading, ADA compliance, storm water design, utility coordination, and local/state permitting.

EXPERTISE

- Commercial Site Design
- Erosion and Sedimentation Control Design
- Stormwater Management Design
- Regulatory Permitting

REGISTRATIONS

Professional Engineer

- WV [REDACTED]
- MD [REDACTED]
- OH [REDACTED]



Civil & Environmental Consultants, Inc.

Thomas W. Adams, P.E.

Senior Project Manager

Camp Bosco Improvements, Catholic Diocese of Wheeling-Charleston, Huttonsville Randolph, WV, USA*

Project manager for design of trails, parking area, stormwater conveyance, and E & S for new dorm facility and campus improvements at Camp Bosco. Improvements included ADA compliance and connectivity improvements within the campus.

Ritchie County Athletic Fields Improvements, ELA Group, Inc., Ritchie County, West Virginia

Role: Project Manager

Project manager for storm water design and permitting for installation of a turf surface on the existing football field, baseball field, and softball field. This project was a design-build project and required coordination with the landscape architect, turf installer, site contractor, and the Ritchie County Board of Education.

Elkins High School Athletic Field, ELA Group, Inc., Elkins, West Virginia

Role: Project Manager

Project manager for storm water design and permitting for installation of a turf surface on the existing football field. This project was a design-build project and required coordination with the landscape architect, turf installer, site contractor, and the Randolph County Board of Education.

Evansdale Drive Relocation, West Virginia University, Morgantown Monongalia, WV, USA*

Project engineer for the relocation of Evansdale Drive on the WVU campus and adding a secondary road into Coliseum parking lot. Design included layout, grading, stormwater, and E&S. Bidding and construction administration was provided to complete the project.

Preston High Meat Processing Facility, Preston County Board of Education, Kingwood Preston, WV, USA*

Project engineer for the design of roadway, parking lot, building pad, stormwater, and E & S. Project included a building addition to the animal processing facility and a new barn at Preston County High School.

Seneca Medical Supplies Facility, Clouse Construction, Ripley, WV, USA*

Project engineer for a warehouse facility for Seneca Medical Supplies within an industrial park. Project included design of roadway, utilities, stormwater conveyance, E&S, & permitting. Project included multiple truck loading docks connected to facility.

FedEx Distribution Facility, Trinity Construction, Morgantown Monongalia, WV, USA*

Project engineer for FedEx distribution warehouse facility in Morgantown, WV. Project included design of roadway, gravity sewer lines, stormwater management, E&S, & permitting. Project included multiple truck loading docks connected to facility and parking facilities for various size vehicles.

Ten Mile Office, VanNostrand Architects PLLC, Bridgeport, WV

Role: Project Manager

Project manager for site design and permitting for an office building within an existing business park. Project required site design and grading, storm water design, utility coordination, and local permitting.

First Exchange Bank - Fairmont, Omni Architects, Fairmont, WV

Role: Project Engineer

Project engineer for site design and permitting for an office building near Fairmont, WV. Project required site design and grading, storm water design, utility coordination, and local/state permitting.

Milan Puskar Stadium Renovations, West Virginia University, Morgantown Monongalia, WV, USA*

Project engineer for design of site improvements, utility relocations (sewer, storm, electric, fiber, water), stormwater design, E&S, & permitting for the renovations of Milan Puskar Stadium at West Virginia University. Bid documents and specifications were provided for completion of the construction.

James Christie, P.L.A.

Principal



24 YEARS OF EXPERIENCE

EDUCATION

B.S., Landscape Architecture, West Virginia University, 1998

REGISTRATIONS

Registered Landscape Architect

- CO [REDACTED]
- WV [REDACTED]
- MD [REDACTED]

Jim is a Principal in the Civil department. In his capacity, he is responsible for complete project management within CEC. He is responsible for site design, landscape architecture, site development entitlement services, construction documents, client management, personnel supervision, and construction administration on numerous municipal, commercial, and institutional projects. Jim is a detail-oriented, highly-creative Landscape Architect with 24 years of dedicated experience in designing and implementing projects to support client needs and meet business objectives. His wide range of project experience ranges from landscape design to destination resort design in multiple regions both within the United States and internationally. Jim has dedicated his career to projects that have a direct effect on the local economy and job growth.

PROJECT EXPERIENCE

Palatine Park, Marion County Commission, Fairmont Marion County, WV*

Palatine Park was designed to be a multi-use amphitheater facility and has become the gathering place in Marion County. The Phase 1 masterplan included a tiered grass amphitheater, splash park, multiple restroom facilities and a large parking area. The entire site meets ADA requirements and was designed to allow multiple events to happen simultaneously within the park grounds. Each area was planned to have multiple uses such as greenspace, event tent areas and full electric so that farmers markets, art festivals and concerts have multiple opportunities for vendor setups as well as for the public to utilize for everyday use. The project was fast tracked and had to be designed, bid and built in a six-month timeframe in order to be completed and operational for the Marion County's Three River Festival in 2014. Since the opening of the park, the amphitheater and associated spaces have become the center of entertainment and gathering in Marion County throughout the year.

Allegheny County Bicycle and Pedestrian Master Plan, Cumberland Area Metropolitan Planning Organization, Cumberland Allegheny County, MD*

Building from the success of the Great Allegheny Passage (GAP), The Cumberland MPO utilized a master plan of the region to take advantage of the GAP trail as the pedestrian backbone for connectivity in the region. It creates connections to all of the municipalities, recreational areas in the region and allows for an alternative type of transportation. Jim was the creative director and project manager of the creation of the master plan which was adopted by Allegheny County into their latest comprehensive plan.

Brooke Hills Park, Brooke Hills Park, Wellsburg Brooke County, WV*

Brooke Hills Park is a 700 acre park in the northern panhandle of West Virginia. Jim project managed a team of consultants on a lodge feasibility study and master plan. Currently Jim is leading the implementation of the 2016-17 phase of the project which includes, a new pool, pool buildings, additional parking, multi-use athletic facilities, disc golf and residential cabins. This is an ongoing project which provides additional amenities and an economic draw for the community.

WVU - Evansdale Campus Entry Realignment, West Virginia University, Morgantown Monongalia County, WV*

Jim was chosen to create multiple concepts for the solution to the pedestrian and vehicular conflicts on Evansdale Campus. The focus was on the entry along Monongahela Boulevard between the Coliseum parking lot and Campus. Jim's design of moving the intersection not only helped the pedestrian crossing issue but also took advantage of creating a secondary entrance and exit for



Civil & Environmental Consultants, Inc.

James Christie, P.L.A.

Principal

West Monroe Downtown Master Plan, Atlas Community Studios, West Monroe, LA

Role: Landscape Architect

Jim was hired by Atlas Community Studios to create a downtown master plan for the city to follow during redevelopment. Jim served as the project manager and landscape architect on the project. While designing the master plan, Jim coordinating public meetings for feedback on the concepts.

Public Sector | State

Tomlinson Run State Park Improvements, West Virginia Division of Natural Resources, New Cumberland, WV

Role: Project Manager

CEC was hired to creating ADA pathways, fishing platforms, interpretive signage and adjustments to the disc golf course to coincide with stream and wetland redesign.

Real Estate | Hospitality

Blackwater River Loop Connector Trail, Friends of Blackwater, Thomas, WV

Role: Project Manager

Jim serves as the project manager and landscape architect for the Blackwater River Loop Connector Trail. The Trail is designed as a tourism draw and will connect the towns of Davis and Thomas with a pedestrian corridor. In addition, the trail connects to Blackwater Falls State Park. In the Park, CEC has designed a pedestrian bridge over Pendleton Falls, a look out at Pace Point and finally a wood suspension bridge at Douglas Falls. The trail will allow for additional site seeing opportunities for visitors of the State Park and Canaan Valley. The project is currently under design with construction slated to begin in the spring of 2022.

** Work performed prior to joining CEC*

AWARDS

ALCC Water Feature Merit Award – Betty Ford Alpine Garden, Vail, Colorado, 2003

ALCC Xeriscape Grand Award – Private Estate, Eagle County, Colorado, 2004

ALCC Xeriscape Grand Award – Betty Ford Alpine Garden, Vail, Colorado, 2004

ALCC Water Feature Merit Award – Mewhinney Residence, Avon, Colorado, 2011

ALCC Design/Build Merit Award – Private Residence, Vail, Colorado, 2011

2013 Volunteer of the Year – Garrett County, MD Chamber of Commerce

PROFESSIONAL AFFILIATIONS

Trout Unlimited

American Society of Landscape Architects

James Christie, P.L.A.

Principal

the Coliseum parking lot. By moving the intersection, the two traffic signals were able to be synchronized, which has led to better traffic flow into the lot and campus respectively.

Great Allegheny Passage Mile Markers, Allegheny Trail Alliance, Homestead Allegheny County, PA*

The Great Allegheny Passage is a 150 mile long distance bike trail from Pittsburgh, PA to Cumberland, MD which follows an abandoned railroad line for most of its journey. Most of the trail is in rural regions and the Allegheny Trail Alliance (ATA) hired Jim to create a creative way to mark the miles for the trail users. This will allow them to know where they are for navigation as well as for safety and maintenance. Jim's idea was to utilize material that was similar to once was on the railroad but also something historical. The final choice was granite curbing repurposed from the Longfellow Bridge in Boston. The granite would then have the mile markers sandblasted into the sides and at special points have the name of the trailhead or significant historical sites. The mile makers are currently being installed by the ATA.

Town of Bath Streetscape, Town of Bath, Bath Morgan County, WV, USA*

Jim was the project manager and landscape architect for the Bath (Berkeley Springs) streetscape project. In his role, he coordinated with the Town of Bath, the WVDOH and Berkeley Springs State Park to create the sense of place along Route 522 (Washington St) and Fairfax Street in the resort area of downtown Berkeley Springs. The project utilized green infrastructure to treat the sidewalk and road runoff prior to returning to Warm Springs Run. The project also included new ADA access as well as lighting and landscaping features. Beyond the sidewalk and green infrastructure, the project also consisted of a historic brick street which was replaced with current heavily load pavers to keep with the history of the area which services commercial water trucks daily.

Parsons Streetscape, City of Parsons, Parsons Tucker County, WV*

Jim served as the landscape architect and creative lead for the Parsons Streetscape on Route 219. The streetscape included decorative brick pavers, historical period lighting and was coordinated with the addition of the new County Courthouse Annex. The project also had challenges with basements and coal shoots under the existing sidewalk as well as ADA challenges with multiple heights on entries into existing buildings. This was the first phase of streetscape and it has set precedent for the future streetscaping of Parson's downtown.

Fairmont Connectivity Plan, Mainstreet Fairmont, Fairmont Marion County, WV, Marion*

Jim was the project manager for the Fairmont Connectivity Plan. The Connectivity Plan is a master plan booklet mapping out improvements for pedestrian connections within the City of Fairmont and surrounding Marion County. The plan's goal is to encourage walking and biking as a viable mode of transportation for all residents and visitors. The plan utilizes the existing and proposed rail trails as the backbone of the pedestrian system and links neighborhoods to schools, government agencies, shopping areas and recreational opportunities.

Bridgeport Rec Center, Omni Associates, Bridgeport, WV

Civil/Site engineering and landscape architectural services for the proposed City of Bridgeport 40 million dollar recreational complex on 55+ acres. The complex will include four NCAA regulation sand cap all-purpose natural grass fields with associated irrigation and drainage systems, one synthetic turf field and drainage system, indoor turf facilities, aquatic center, tennis courts, basketball courts and various other recreational amenities. To create the 55+ acre site in mountainous terrain and meet ADA regulations, the project will move 350,000 cubic yards of earth.

Public Sector | County

Grand Vue Park Master Plan, Omni Associates, Moundsville, WV

Role: Project Manager

Jim served as the project manager and lead designer for the 600+ acre park master plan. The client extended the project for the creation of the first phase of camping in the form of a 40 lot RV park and 20 lot primitive camping area. Construction will be completed in the fall of 2021.

Public Sector | Municipal

Norwood All Inclusive Park, City of Fairmont, Fairmont, West Virginia

Role: Project Manager

CEC was hired to create an All Inclusive park designed to include all ages and physical abilities. It is to be the first All Inclusive park in North Central West Virginia and a model for other communities. Currently under design.

PROJECT APPROACH

At Omni, we have incorporated a rigorous design approach to projects that allow us to identify the unique attributes needed for each circumstance that projects contain so that a cohesive design can be achieved. Problematic issues such as operations, ADA accessibility and department identity can be resolved with the right approach. As WV State agencies we recognize that your stewardship of cost is of utmost importance, we anticipate working closely with our cost estimators throughout the process to establish necessary baseline costs and contingencies that take into account product availability and inflation. We are at a time where creative approaches and alternate back-up material selections can prove necessary and are not uncommon.

Goal Objective #1,

New Campus Entry: In order to properly memorialize the former administration building structure Omni will conduct multiple design charrettes with the staff, community members and other stakeholders. Our design team will meet with school officials to understand the wants and needs of the school from a functional standpoint for the new main campus entry. Multiple design schemes will be developed for the client to review. One option would be a covered drop off structure containing design elements from the Administration building where a way finding map could be incorporated into the design with historical information as well. The design team will pull from their experiences at the Western PA School for the Deaf on an exterior student walk. The existing entry and bus loop area will be surveyed to establish existing grades and features to be incorporated into the design. The entry and bus loop geometry will be evaluated using AutoCAD Civil3D vehicle tracking software to simulate bus and other vehicle movements to ensure driveway widths and curve radii are sized appropriately. The design will include drop off areas meeting ADA requirements for not only the drop off, but pathway tie-ins to the other campus facilities. This will include maintaining slope requirements, providing truncated domes, tactile surfaces, and handrails to assist with way finding. A combination of curbing and bollards may be utilized to buffer pedestrians from vehicle traffic while maintaining accessibility.

Curbing also serves as a storm water management feature. The bus loop will be graded such that rain runoff will be directed by slope or curbs to storm inlets with ADA compliant grates, collected in a storm drain system, and conveyed to the existing storm system located along Main Street. Coordination will be required with the West Virginia Division of Highways for connection to the existing system.

Goal Objective #2

The Outdoor classroom, greenhouse or high tunnel shall provide classroom space but should also include a sensory garden. A campus map will be created to examine possible locations for these structures. These structures could become a part of the pathways from the new main entry to other prominent features on campus. Educational goals of each will be examined. Multiple configurations will be examined to ensure these structures add to the existing grand campus architecture. Pathways to and from the outdoor classrooms will meet ADA standards and will include wayfinding features such as tactile surfaces, handrails, or other guiding devices. The classroom areas will be graded such that storm water will be collected using floor drains or storm inlets using ADA compliant grates and connected to the existing storm system. Depending upon the technology requirements, we would select existing buildings that are in the general proximity of the outdoor classrooms and determine if the existing power and technology infrastructure is available.

PROJECT APPROACH cont'd

Goal Objective #3

Sevigny Building Loading Dock: Omni will work with the client to examine all possible locations for this new loading dock to include the existing outdoor location. The building program will be evaluated for the best possible location for this dock. Loading docks typically have large exterior doors that must be kept open for an extended period of time when deliveries occur. This creates a substantial load on a building's HVAC system that must be addressed to ensure that temperature and humidity problems do not infiltrate throughout the building. During the winter, it is critical that any exposed piping (including sprinkler heads/piping) be protected from freezing. We accomplish this through the use of loading dock seals, air curtains, individual sources of heat and building pressurization. Existing utilities around the site will need to be surveyed and taken into consideration for truck traffic. Entering and traversing the site will also be evaluated for the best access for a safety stand point. The loading dock will be designed to accommodate the delivery vehicle anticipated by the school. As stated above, AutoCAD Civil3D vehicle tracking software will be utilized. The approach into the loading dock is critical to allow for proper transition from the truck to the loading platform. This includes both the height of the dock and the slope transition between the trailer and the loading platform. The truck turnaround area will be graded such that storm water will be collected using floor drains or storm inlets using ADA compliant grates and connected to the existing storm system.

SIMPSON ELEMENTARY SCHOOL

Harrison County Schools
Bridgeport, WV



The project included design and construction administration for seven new classrooms and an upgraded kitchen/lunch room. The design solution was a one-story addition with a pod of four classrooms on one side of a sidewalk and three rooms on the other side of the sidewalk that include a music room and an art room. By separating the spaces, natural light was available in all classrooms. With an efficient design, Omni was able to incorporate space for much-needed offices. A commons area for the music room and cafeteria was created for after-hours activities. The new addition provides students and staff with a beautiful and structurally sound facility.

The existing school remained in operation during the school year, so Omni designed the work in phases. The first phase was the demolition of the existing three-story original schoolhouse and separate one room classroom, including asbestos abatement, during the summer months. The second phase included building the new structure while school was in session, necessitating the coordination of access to the school for buses, students and deliveries. The third phase is the complete renovation of the cafeteria and kitchen to include new equipment and finishes, which will take place during summer break.

The exterior of the new building is constructed of insulated concrete forms (ICF) with masonry exterior to complement the existing building. ICF construction sandwiches a heavy, high-strength material (reinforced concrete) between two layers of a light, high-insulation one (foam). This combination creates a wall with an unusually good combination of tightness, strength, and insulation. Benefits to Owners and Contractors include ease of construction, speed of construction, construction in inclement weather, and less building material in exterior walls.

SERVICES PROVIDED

Full Architectural, Engineering

PROJECT DELIVERY METHOD

Design Bid

YEAR COMPLETED

2014

PROJECT COST

\$ 2.5 million

PROJECT SIZE

10,500 SF

CLIENT REFERENCE

Neil Quinn

KVCTC & HEPC

Kanawha Valley Community & Technical College /
West Virginia Higher Education Policy Commission



SERVICES PROVIDED

Full Architectural Services

DELIVERY METHOD

Design-Bid-Build

PROJECT SIZE

KVCTC Renovation: 71,000 SF

KVCTC Addition: 14,000 SF

HEPC Renovation: 125,000 SF

PROJECT COST

KVCTC: \$ 11.4 million

HEPC: \$ 13.8 million

Total: \$ 25.2 million

YEAR COMPLETED

2012

Kanawha Valley Community and Technical College needed a new Headquarter Building to serve as its flagship structure and provide state-of-the-art space for administration, student services, current program offerings and future program expansion.

Phase I of the project was an in-depth evaluation of the existing 196,800 sf Dow Chemical Building to determine its suitability for continued use as a community and technical college with office space for an existing tenant. The initial evaluation included building codes compliance, ADA accessibility, building envelope analysis, MEP analysis, an existing conditions report, and conceptual energy calculations. Phase II was the development of retrofit alternatives for the existing building to house KVCTC utilizing a revised 85,925 square feet program. Services provided included the development of base plans of the existing facility, schematic design alternatives, assisting the owner with selecting a preferred scheme, determining the scope of work, preparation of a preliminary construction cost estimate as well as a design and construction schedule.

One challenge with this project, is that the project funding came from two different sources requiring separate Schedules of Value and Applications for Payment. ***Additionally, the project was constructed in three phases in order to rotate three separate tenants while space being renovated.***

Project Examples

Project Examples:

- Allegheny College - Resident Hall Sprinkler Systems
- **Barbour Co BOE - CEFP**
- **Berkeley County BOE - Gerrardstown Middle School**
- **Berkeley County BOE - Martinsburg HS Addition & Elevator Addition**
- **Berkeley County BOE - Martinsburg North Middle School Renovation**
- Bethlehem Haven Fire Alarm Upgrade
- Brew House-Fire Alarm Upgrade & Emergency Generator
- Bridgeville Fire Alarm System
- Burlington Center School - Classroom Addition
- Carlow University - Parking Lot C Lighting Upgrades
- **Chartiers Valley SD - Auditorium / Lobby Alterations**
- Clay Auditorium Classroom Renovation
- Clhoun County Middle/High School - Air Condition Gymnasiums
- **Corry SD - HS / MS Auditorium Theatrical Lighting Upgrade**
- Dollar Bank Operations Center - Fire Alarm Upgrade
- Family Links Elevator Addition
- **Fox Chapel Area SD - High School Auditorium HVAC Study**
- FSU - Musick Library Elevator and HVAC
- **Gilmer County BOE - Cedar Creek Elementary School**
- **Hampshire County BOE - Capon Bridge MS - Kitchen Grease Line Replacement**
- **Hampshire County BOE - Slainsville Elem. Lighting Upgrade**
- **Hancock Co BOE CEF, ESSERF and Athletic Field Projects**
- **Hardy County BOE - East Hardy High School**
- **Hardy County BOE - Moorefield High School**
- **Highlands SD - Grandview Elementary School Elevator Addition**
- Holy Cross Academy Gym Lighting Upgrade
- LaRoche College Zappala College Center MPR Lighting Upgrade
- **Lewis County BOE - Leading Creek Elementary School**
- **Lewis County BOE - Peterson-Central Elementary School ATC Upgrades**
- **Lewis County BOE - Roanoke Elementary School - Boiler Replacement**
- **Lewis County BOE - Robert L Bland Middle School**
- **Marian Co BOE - East Dale ES Addition**
- Mellon Garage Elevator Upgrade
- MHA - Harrison Village Rec Center Fire Alarm Upgrade
- **Mineral Co BOE - CEF**
- **Monongalia BOE - South Middle School Add & Reno**
- **Monongalia Co BOE - CEF**
- **Monongalia County BOE - Eastwood Elementary School Classroom Addition**
- **Monongalia County BOE - Morgantown High School Stadium - Phase 3**
- **Monongalia County BOE - Ridgedale Elementary School Addition**
- **Monongalia County BOE - University High School Facilities Building**
- **Monongalia County BOE - Westwood Middle School Locker Room/Concessions**
- **Morgan Co BOE - Pleasant View Elementary School Renovation**
- **Morgan County BOE - Berkeley Springs High School Gym Bldg. Renovation**

- MVH - Elevator at RAH
- NASD - Auditorium Renovations
- NASD - District Wide Security Upgrades
- NASD - Franklin Elementary School - Fire Alarm Replacement
- NASD - Intermediate HS Emergency Generator & Fire Alarm Upgrades
- NASD - McKnight Elementary Fire Alarm and PA Upgrades
- NASD - McKnight Elementary School Roof Replacement
- NASD - NAI McKnight Exterior Lighting Upgrades
- NASD - NASH Gym and Auditorium Bathroom Reno
- NASD - North Allegheny High School Security System
- Northwestern SD - High School Auditorium Lighting
- Oakland Portal Elevator Voltage
- OLMC St. Sebastian Church Choir Area Lighting Upgrade
- Pittsburgh BOE - Dillworth Academy – Elevator
- PPS - Westinghouse HS - Security System
- PSU Behrend Prischak Building Elevator Replacement
- PTS Chapel Elevator
- Putnam County BOE - Buffalo Elementary School Renovations
- Putnam County BOE - Lakeside Elementary School
- Putnam County BOE - Winfield Elementary School Renovations
- Putnam County Schools - Conner Street Elementary
- Putnam County Schools – Technology
- Riverview SD - Auditorium Sound System
- St Sebastians Lighting Upgrade
- St. Cyril of Alexandria Church - Fire Alarm Upgrade
- SVSD - CV and Rowan Elem School Fire Alarm Upgrades
- SVSD - District Wide Site Lighting Upgrades
- SVSD - Intermediate School Auditorium RTU Replacement
- Taylor County BOE - Grafton HS Auditorium Ceiling Replacement
- Taylor County Schools - West Taylor ES Classroom Addition
- University of Pittsburgh - 2020 Fire Alarm System Replacements
- University of Pittsburgh - 2022 Fire Alarm System Replacements
- University of Pittsburgh - Bellefield Hall Sprinkler Line Replacement
- University of Pittsburgh - Bradford - Hanley Library Fire Alarm Replacement
- University of Pittsburgh - Bradford - KOA Arena Lighting Upgrade
- University of Pittsburgh - Center for Bioengineering Fire Alarm Replacement
- University of Pittsburgh - Chevron Auditorium Ceiling Upgrade
- University of Pittsburgh - Chevron Data / Security Risers
- University of Pittsburgh - Clapp Hall 4th Floor Security
- University of Pittsburgh - Cost Sports Center Lighting Upgrades
- University of Pittsburgh - Craig Hall - Fire Alarm System Upgrade
- University of Pittsburgh - Darragh Street Housing Fire Alarm & Sprinkler Upgrade
- University of Pittsburgh - Davis Hall Fire Alarm System Installation
- University of Pittsburgh - Field House Lighting Upgrade (Energy Conservation)
- University of Pittsburgh - Fire Alarm Notification Upgrade
- University of Pittsburgh - Fire Alarm Systems Replacements
- University of Pittsburgh - Fire Alarm Upgrades FY22
- University of Pittsburgh - Forbes Craig Apartments - Fire Alarm Up

- University of Pittsburgh - Franklin Complex - Fire Alarm System Replacement
- University of Pittsburgh - Fraternity House Fire Alarm Monitoring with RS2
- University of Pittsburgh - Greensburg Campus Exterior Lighting Upgrade
- University of Pittsburgh - Greensburg Campus McKenna Hall Replace Fire Alarm System
- University of Pittsburgh - Greensburg Faculty Office Bldg. Fire Alarm Replacement
- University of Pittsburgh - Greensburg McKenna Hall Fire Alarm System Upgrade
- University of Pittsburgh - Heinz Chapel - Install Fire Alarm System
- University of Pittsburgh - Hillman Library Fire Alarm Device
- University of Pittsburgh - Life Science Annex & Plum Boro Holding Room Lighting Upgrades
- University of Pittsburgh - Mayflower Apartments - Fire Alarm System
- University of Pittsburgh - McCormick Hall Roof Replacement
- University of Pittsburgh - Melwood Fire Alarm Upgrade
- University of Pittsburgh - Misc Fire Alarm Systems Replacements
- University of Pittsburgh - Oakland Campus Fire Alarm Notification - Phase 2
- University of Pittsburgh - Oakwood Apartments - Fire Alarm System
- University of Pittsburgh - Posvar Hall Chiller Plant Lighting Upgrade
- University of Pittsburgh - Security Alert All Tie-in to Fire Alarm Panels - Phase 2
- University of Pittsburgh - Soldiers & Sailors Fire Alarm System Replacement
- University of Pittsburgh - Stephen Foster Memorial Upgrade Fire Alarm System
- University of Pittsburgh - Victoria Bldg Fire Alarm System
- **Upshur Co Schools Middle School Building Assessment**
- **Webster Co BOE - 2017 MIP Lighting Upgrade**
- **Webster Co BOE - High School Renovation**
- **Webster Co BOE - Webster Springs MIP**
- **Webster County BOE - HS & Webster Springs ES HVAC Upgrades**
- **West Mifflin SD-New Access Control, Camera and Security**
- **Western PA School for the Deaf – Master Plan Review (Active)**
- **Western PA School for the Deaf - Student Walk (Active)**
- **Western PA School for the Deaf Masterplan**
- Westmoreland County Community College (WCCC) - Multi-Campus Security
- **WGSD - HS Auditorium Lighting/Sound Upgrade**
- Winchester Thurston Fire Alarm Sys Replacement
- WV Capitol Complex Buildings 4 and 36 Elevators
- WV Capitol Complex Elevator Upgrades – Study
- WVU - Falbo Theater House Lighting Upgrades

K-12 Schools:

Pennsylvania:

- Allegheny Valley School District
- Ambridge Area School District
- Avonworth School District
- Baldwin-Whitehall School District
- Beaver Area School District
- Bentworth School District
- Bethel Park School District
- Blackhawk School District
- Carlynton School District
- Central Greene School District
- Chartiers Valley School District
- Chestnut Ridge School District
- Conneaut School District
- Corry Area School District
- Deer Lakes School District
- East Allegheny School District
- Elizabeth Forward School District
- Erie County School District
- Fairview School District
- Fort Cherry School District
- Fort LeBoeuf School District
- Fox Chapel School District
- Franklin Regional School District
- Freedom Area School District
- Gateway School District
- General McLane School District
- Girard School District
- Greensburg-Salem School District
- Hampton Area School District
- Harbor Creek School District
- Hopewell Area School District
- Jamestown Area School District
- Jefferson Morgan School District
- Marion Center Area School District
- Mars Area School District
- Millcreek Township School District
- Montour School District
- Moon Area School District

- Mt. Lebanon School District
- North Allegheny School District
- North East School District
- North Hills School District
- Northwestern School District
- Norwin School District
- Penn Cambria School District
- Penn Hills School District
- Penncrest School District
- Peters Township School District
- Pine Richland School District
- Pittsburgh Public Schools
- Quaker Valley School District
- Riverview School District
- Seneca Valley School District
- Shaler Area School District
- Slippery Rock School District
- South Allegheny School District
- South Fayette School District
- Southmoreland School District
- Spring Cove School District
- Steel Valley School District
- Sto-Rox School District
- Trinity Area School District
- Union City School District
- Upper St. Clair School District
- Warren Area School District
- Washington Area School District
- Wattsburg Area School District
- West Greene School District
- West Jefferson Hills School District
- West Middlesex School District
- Woodland Hills School District
- Western Pennsylvania School
for the Deaf

West Virginia:

- Barbour County

- Berkeley County
- Brooke County
- Calhoun County
- Clay County
- Doddridge County
- Gilmer County
- Grant County
- Hampshire County
- Hardy County
- Harrison County
- Jackson County
- Jefferson County
- Lewis County
- Marion County
- Marshall County
- Mercer County
- Mineral County
- Mingo County
- Monongalia County
- Monroe County
- Morgan County
- Pendleton County
- Pleasant County
- Preston County
- Putnam County
- Ritchie County
- Roane County
- Taylor County
- Upshur County
- Warren County
- Webster County

Private Schools:

- Allegheny Academy
- Aquinas Academy
- Cathedral School
- Diocese of Greensburg
- Diocese of Pittsburgh

- Eden Christian
- Erie County Vo-Tech
- Mother of Sorrows School
- Pressley Ridge School
- Oakland Catholic
- Scotland School for Veterans' Children
- Sewickley Academy
- Shadyside Academy
- St. Alphonsus School
- St. Gertrudes School
- Trinity Episcopal School
- Watson Institute
- Winchester Thurston